

THE ACCULTURATION OF CELLO IN CHINESE SOCIOCULTURAL PERSPECTIVE



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THE DISSERTATION TITLED

THE ACCULTURATION OF CELLO IN CHINESE SOCIOCULTURAL PERSPECTIVE

BY

MO SHAOQIAN

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(Assoc. Prof. Dr. Chato	chai Ekpanyaskul, MD.)
Dean of Gra	duate School
ORAL DEFENS	SE COMMITTEE
Major-advisor	Chair
Asst. Prof. Dr.Metee Punvaratorn)	(Assoc. Prof. Dr.Saran Nakrob)
Co-advisor	Committee
Dr.Pongsapich Kaewkulthorn)	(Asst. Prof. Dr.Veera Phansue)
	Committee
	(Asst. Prof. Dr.Tepika Rodsakan)

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Author MO SHAOQIAN

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Thesis Advisor Assistant Professor Dr. Metee Punvaratorn

Co Advisor Dr. Pongsapich Kaewkulthorn

The cello, a quintessential instrument of Western classical music, has undergone a dynamic process of cultural acculturation in China, evolving from an imported artifact into a localized medium of artistic expression. Grounded in acculturation theory, this study employs historical analysis and a literature review to systematically trace the instrument's development in China, examining its functional roles and cultural integration within traditional orchestras. In doing so, it addresses critical gaps in scholarship regarding the cello's historical significance and sociocultural impact.Complemented by questionnaire surveys, the research empirically investigates contemporary Chinese society's perceptions, acceptance, and the evolving identity of the cello across diverse musical contexts. Findings reveal a three-stage paradigm of functional localization—technical adaptation, transformation, and meaning reconstruction—offering a theoretical framework for cross-cultural music studies. This study contributes fresh perspectives to the understanding of foreign musical instruments' acculturation in non-Western societies.

Keyword: Cello, Cello Art, Sinicization, Cultural Adaptation, Cultural Identity, Chinese Nationalities Symphony Orchestra, The History of Modern Chinese Music

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CHAPTER 1

INTRODUCTION

Background

The cello possesses a warm and rich timbre capable of conveying profound emotions, which has secured its prominent position in both classical and contemporary music. From Baroque chamber music to Classical symphonies and Romantic concertos, this instrument has consistently enriched musical compositions with its distinctive tonal character and expressive depth, adding layered textures and emotional resonance. Nurtured and propelled by the European Renaissance and Industrial Revolution, cello art has achieved refined perfection through centuries of evolution. In modern times, the cello's applications have expanded significantly. While maintaining its vital role in classical repertoire, it has been innovatively incorporated into folk music traditions and modern popular genres, demonstrating remarkable versatility and enduring appeal.

According to historical records, the cello was introduced to China by foreign missionaries during the Kangxi reign of the Qing Dynasty. Research by Qian Ren ping indicates that the instrument's arrival in China "definitely occurred between 1699, following Nan Guang guo's solo performance, and 1708, prior to the death of Xu Ri sheng, during which five-string cello players were documented in the imperial court's Western ensemble." (Qian, 2001)The mentioned five-string cello represents the precursor to the modern instrument. With the conclusion of the Opium War in 1842, China gradually descended into a semi-colonial and semi-feudal state, making cultural collisions and integrations between East and West an inevitable trend of the era. Through the joint efforts of Western missionaries, domestic and foreign cello instructors, and Chinese students studying abroad, cello performance and pedagogy began flourishing in cities like Shanghai, Harbin, Dalian, and Beijing. This cultural transmission transitioned from religious institutions to educational establishments and spread from imperial courts to public communities. Following the establishment of the People's Republic of China, alongside the comprehensive development of the nation's social,

political, economic, and cultural sectors, generations of musicians have cultivated the cello art to gradually develop distinct Chinese cultural characteristics.

In the context of modern Chinese musical development, the cello was initially "requisitioned" as a substitute for traditional Chinese bass instruments in national orchestras and various traditional ensembles. While this adoption might have been circumstantial and controversial at the time, the continuous creation of new national orchestral works and the expansion of artistic practices within these ensembles provided fertile ground for the cello's integration. Concurrently, this process highlighted the urgent need for innovation in traditional Chinese bass instruments. As noted in historical documents: "Following the establishment of the People's Republic, professional ensembles focused on restructuring national orchestras and reforming ethnic instruments, while seeking solutions to strengthen traditionally weak mid-to-low frequency sections through instrumental development." Beginning in the 1950s, China witnessed systematic reforms of bass string instruments, including experimental creations like the gehu, bass laruan, and large matouqin. The most representative effort was led by Shanghai Conservatory's Yang Yusen and his team, who conducted comprehensive research into traditional Chinese bass instruments. Their reforms concentrated on three core aspects: material selection, standardized specifications, and musical acoustics—a painstaking process spanning decades. Despite persistent efforts, these modified instruments failed to meet expectations. Overemphasis on visual imitation of the cello and inadequate attention to tonal quality resulted in instruments whose acoustics and technical capabilities consistently fell short of orchestral requirements. Over the past fifty years, most national orchestras ultimately reverted to using the cello. Thus, this once "provisional substitute" evolved into a standardized bass instrument in Chinese orchestras, completing the cello's localization journey in China.

Driven by the forces of globalization, the exchange and integration of musical cultures have emerged as a defining characteristic of contemporary music evolution. As a quintessential Western string instrument, the cello has been extensively researched regarding its artistic merit and technical advancements within Western musical

frameworks. However, with intensifying cross-cultural exchanges, the cello's adaptive modifications and semantic reconfiguration in non-Western contexts are increasingly becoming a focal point in musicological studies.

In China—a nation endowed with profound cultural heritage and distinctive musical traditions—the localization of the cello transcends mere functional adaptation, revealing deeper cultural negotiations and musical syncretism. Conventional cello scholarship predominantly examines its applications in Western musical systems, particularly its roles in orchestral and chamber music alongside technical developments. Yet as globalization accelerates, transcending geographical and cultural boundaries, the cello has undergone unprecedented cultural acclimatization and aesthetic metamorphosis in China's ancient yet dynamic cultural landscape, transforming from a cultural emissary of the West into an active participant within Chinese musical practices.

This transformative process manifests not only through localized technical adaptations in performance practice but more significantly in the instrument's redefined identity within Chinese musical ecosystems. Its evolution from "cultural outsider" to "creative innovator" necessitates scholarly re-examination of the cello's developmental trajectory in China. Investigating the cultural logic and aesthetic aspirations underlying its localization has thus become an imperative research subject. Contextualizing this inquiry within China's modern musical development yields dual insights: it elucidates the cello's adaptive mechanisms in Chinese musical environments while providing novel perspectives for exploring the dynamic interplay between traditional Chinese music and Western instrumental paradigms. Such scholarship ultimately contributes to understanding cross-cultural musical synthesis in an increasingly interconnected world.

Cultural adaptation, defined as a bidirectional transformation process arising from sustained contact between cultural groups, provides a critical lens for systematically examining the localization of the cello in China. By adopting acculturation theory as an analytical framework, this approach not only elucidates how traditional Chinese musical culture engages in profound interactions with foreign instruments under globalization but also establishes a novel theoretical paradigm for cross-cultural

organology. Such research yields dual significance: it deciphers the innovation logic inherent in China's traditional music culture during modernization processes, while simultaneously formulating practical paradigms for future transcultural musical practices. Through this theoretical perspective, the dynamic interplay between indigenous musical epistemology and Western instrumental technology becomes methodologically operationalized, offering fresh methodological insights for global musicological studies.

Objectives of the Study

- 1. To study the historical development of cello art within the context of China's nationalization process.
- 2.To analyze the application and influence of the cello in Chinese national orchestral music.
- 3.To examine the social roles and cultural significance of the cello in contemporary China.

Significance of the study

The localization of cello artistry transcends mere evolution in instrument form or performance technique; it constitutes a profound transformation of cultural identity within cross-cultural contexts. This research case study systematically examines the complex dynamics of musical acculturation, elucidating the interactive mechanisms between tradition and modernity, indigenous heritage and foreign influences. It establishes crucial theoretical frameworks for understanding the integration of Western instruments into non-Western musical traditions while proposing innovative paradigms for musical innovation in globalized contexts. Furthermore, this investigation constructs practical models for cross-cultural musical practices, providing theoretical underpinnings for advancing intercultural dialogue and creative synthesis in musical culture.

Scope of the study

With the evolution and transformation of socio-cultural contexts, musical instruments have come to embody increasingly complex information and assume multiple identities. Consequently, the conceptual scope of organology has been significantly expanded. This necessitates researchers to situate instruments within their cultural contexts of production and practice, with particular attention to their cultural significances. This study focuses on a temporal framework spanning the 18th to 21st centuries, delineated by pivotal socio-political events in Chinese history. The primary objective is to examine the cultural transformations of the cello as embedded within China's evolving social structures against these historical backdrops. Guided by organological theories, the research encompasses three principal dimensions:

1.Introduction and Localization Processes:

Tracing the historical trajectory of the cello's transmission to China, including its chronology, pathways, early disseminators, and adopters. Investigating adaptive modifications and innovations during its localization. Analyzing indigenous characteristics in performance practices and repertoire composition.

2. Historical Development and Cultural Transformation:

Examining the cello's evolution within Chinese national orchestras across distinct historical periods (e.g., post-1949 era, post-Reform and Opening-up) Assessing its changing roles in music education, professional performance, and public dissemination Exploring interrelationships with contemporaneous socio-cultural milieus, musical policies, and international exchanges Illuminating its shifting status and functions in China's musical modernization.

3.Instrument-Human Ideology Nexus:

Investigating correlations between the instrument and social stratification, gender constructs, and identity formation Analyzing contemporary processes of cultural (re)construction surrounding the instrument Providing insights into the transformation and reconfiguration of social structures and ethnic cultures

Definition of Terms

Cultural change:

Cultural change refers to the dynamic transformations in values, behavioral patterns, and social structures over time due to internal developments or external influences. In the context of music, cultural change influences the evolution of musical traditions and instrumental adaptation.

Music change:

Music change refers to the development and transformation of musical forms, styles, and performance practices over time. This includes both synchronic change (simultaneous transformations within a specific time period) and diachronic change (evolution across different historical periods

The Conception of 'Cello' and 'Cello Art':

The term 'Cello' refers to the string instrument classified within the violin family, primarily used in orchestras and solo performances. In contrast, 'Cello Art' encompasses a broader conceptualization, including instrumental techniques, repertoire, cultural significance, and performance traditions

Indigenization:

Indigenization means integrating foreign instruments into the local music culture, adapting them to the local music style, aesthetic values, and cultural traditions, and making them part of the local music culture. It is both a process of spreading and applying foreign instruments locally and one of their localization, modification, and innovation.

National Orchestra:

A national orchestra is a form of orchestra that combines the Western symphony orchestra setup with indigenous instruments to perform music with a symphonic effect. It retains the unique timbre and cultural meaning of the indigenous instruments while drawing on the Western symphony orchestra's structure and performance style.

Sino-Western Fusion:

Sino-Western fusion refers to the integration of traditional Chinese culture with Western cultural elements, creating new cultural forms that embody both Chinese characteristics and Western influences. For example, blending Chinese ethnic musical modes with Western harmonic systems to produce innovative melodies. Such fusion music is inherently creative, transcending the boundaries of traditional music and pioneering new frontiers in composition, thereby infusing fresh vitality into the evolution of musical art.

Instrument Reform:

Instrument reform involves structural, technical, and performative modifications and innovations to traditional instruments. These adaptations aim to align instruments with the demands of modern music, enhancing their functionality, versatility, and expressive potential.

Cultural Adaptation:

Cultural adaptation refers to the process by which an instrument adjusts its structure, performance techniques, musical styles, and other aspects to adapt to and integrate into a new cultural environment. This process involves both adaptive changes to foreign cultural influences and the preservation and modification of original cultural traditions.

Cultural Fusion:

Cultural fusion describes the process through which instruments from distinct cultural backgrounds, through prolonged exchange and interaction, mutually absorb, borrow, and integrate elements, resulting in new instrument forms or musical styles. This process emphasizes bidirectional or multidirectional exchange between instruments and the subsequent innovation and transformation that emerges.

The conception

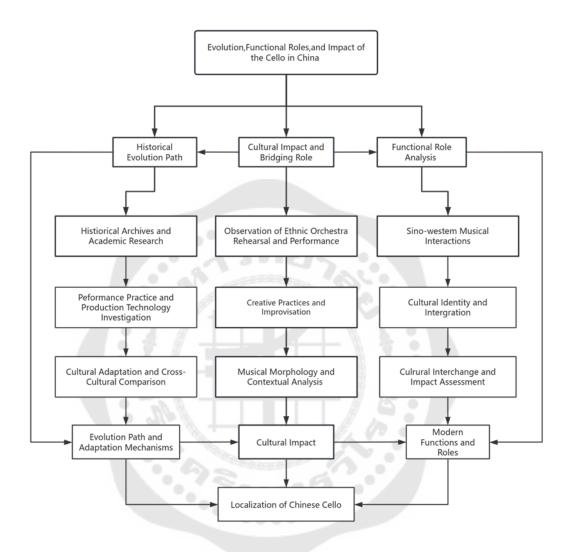


Figure 1 Theoretical Framework

The conceptual framework of this study emerges from a critical differentiation between the cello as material entity and cello art as cultural praxis. While there exists an intrinsic connection between the cello and cello art, the two concepts should not be conflated. The term cello refers specifically to the musical instrument as a concrete physical entity, whereas cello art constitutes an abstract cultural construct shaped through societal practices, imbued with humanistic values and historical significances. As a systematic cultural phenomenon, cello art encompasses not only the instrument's

physical construction but also its repertoire development, technical innovations, performance praxis, and socio-cultural dynamics. This broader conceptual framework necessitates a macroscopic examination of the cello through interdisciplinary lenses—including musicology, performative techniques, cultural transmission, and historical contextualization. The scope of Chinese cello art under investigation extends beyond the Western-derived artistic practices introduced since the late 18th century to encompass their localized transformations and the underlying cultural logics. Fundamentally, this study engages in a holistic exploration of Chinese cello art's historical trajectory, with particular emphasis on its cultural indigenization—analyzed through the theoretical prism of cultural adaptation. This approach interrogates the causal mechanisms, distinctive characteristics, and morphological patterns of artistic transformation, ultimately aiming to construct a comprehensive cultural epistemology of Chinese cello art.

CHAPTER 2 LITERATURE REVIEW

The cello, a bowed string instrument that originated in Italy during the 16th century, has become an important medium for human spiritual communication and cultural exchange due to its anthropomorphic shape and sound. The history of its introduction to China can be traced back to the reign of Emperor Kangxi during the Qing Dynasty. According to research by Qian Renping, the cello was brought to China by Western missionaries between 1699 and 1708. (Qian, 2001)This event marked the beginning of the cello's spread in China, and through the interaction and integration of Eastern and Western cultures, the instrument gradually developed local characteristics. The cello initially entered the Chinese imperial courts through missionary activities. For example, historical records from the Qing Dynasty during the reign of Emperor Qianlong document the musical activities of missionary Jean-François Gerbillon in the court. In addition, Jesuit priests such as Tomás Pereira during the Kangxi period further introduced Western instruments to China, with the cello emerging in the courts and churches. During this period, the cello primarily served religious ceremonies and court entertainment and had not yet spread widely to the general public.

After the Opium Wars, China's semi-colonization accelerated the infiltration of Western culture. Cities such as Harbin, Shanghai, and Beijing became central hubs for the dissemination of the cello. For instance, the Harbin Railway Bureau Symphony Orchestra and the Shanghai Municipal Council Orchestra employed numerous foreign musicians, promoting the popularization of cello performance. In the early 20th century, Chinese students such as Xiao Youmei and Huang Zi studied music in Europe and the United States. Upon returning to China, they became involved in music education, and the Central Conservatory of Music and Shanghai Conservatory of Music established cello programs, cultivating early performers like Wang Liansan. Additionally, collaborations between Western missionaries and Chinese musicians, such as the court orchestra led by Robert Hart, further facilitated the cello's transition from the church to schools and the general public.

After the founding of the People's Republic of China, the cello arts flourished with government support. Music educators such as Huang Xiaolong and Zhu Jian'er incorporated elements of Chinese traditional music into cello compositions. For example, Zhu Jian'er's arrangement of The Shepherd was based on a Yunnan folk song and showcased national storytelling through the delicate tones of the cello, becoming a model of the fusion of Eastern and Western music. Meanwhile, the professional education system gradually improved, with the Central Conservatory of Music and the Shanghai Conservatory of Music becoming major centers for talent cultivation. International-level performers such as Wang Jian emerged, and his career, highlighted by the documentary From Mao Zedong to Mozart, brought international attention to Chinese cello education, reflecting the globalization of Chinese cello artistry.

In recent years, the Chinese cello industry has experienced diversified development:

Education and Market Expansion: Data from 2021 indicates a significant growth in the Chinese cello training market, with an increase in the number of parents from the post-80s and post-90s generations valuing quality education, which has driven the concentration of the industry (Zhang, 2021).

Artistic Activities and International Exchange: Events such as the Yangtze River Delta Cello Arts Week in 2024 attracted over 500 performers nationwide, promoting artistic outreach through public concerts and masterclasses (Li, 2024).

Local Composition and Theoretical Research: Scholar Fang Yijia (2024) analyzes Chinese cello works from an aesthetic perspective, emphasizing their "simple structure and melodious tunes" that reflect national characteristics. Meanwhile, Liu Xinxin (2025) systematically traces the development of the cello in China in A History of Chinese Cello Art, offering insights into the instrument's localization process.

1. The Formation and Development of Chinese Orchestras

The formation of Chinese orchestras can be traced back to the 1920s, when traditional musical instruments began to be reformed and integrated with principles from Western symphonic music (Yan, 2018). During the 1960s and 1970s, despite the

destruction of Western instruments and teaching materials due to the Cultural Revolution, Chinese musicians continued to seek creative inspiration from folk songs and traditional folk music (Yan, 2018). Entering a new era, Chinese national orchestras have developed rapidly through a process of transition from imitation to innovative integration, leading to the emergence of an increasing number of outstanding composers and a growing diversity of compositional styles (Sun & Lin, 2022).

In the 20th century, the cello gradually began to stand out in China's musical landscape. A group of distinguished performers and educators, such as Wang Liansan and Situ Zhiwen, made significant contributions to the establishment of China's cello education system (Yalong, 2021). Not only were they exceptional performers, but they also laid the foundation for cello pedagogy in China. Their compositional and educational endeavors greatly promoted the popularization and development of the cello in the country (Yalong, 2021).

During the development of Chinese national orchestras, elements of Western music were continuously absorbed and integrated, resulting in a unique musical style. The cello, with its distinctive timbre and expressive power, plays an important role in contemporary Chinese orchestras. It can serve as a bass instrument to enhance the lower register of the ensemble, and also as a solo instrument to showcase its rich expressive capabilities. Some contemporary composers have incorporated the characteristics of the cello into Chinese orchestral works, adding new colors to the compositions.

The reform of Chinese national musical instruments is a key issue in the current field of music, especially in the context of the modernization and internationalization of traditional music. The following discussion explores literature related to the reform of Chinese low-pitched national instruments, with a focus on the motivations, methods, and impacts of such reforms.

The motivations behind the reform of Chinese national instruments are multifaceted. On the one hand, traditional instruments often have limitations in terms of range, volume, and expressiveness, making it difficult to meet the demands of modern

compositions. On the other hand, the introduction of Western instruments and the influence of Western music theory have prompted Chinese musicians to consider how to improve traditional instruments so they can better integrate into the modern musical system (Ma & Chen, 2024). Furthermore, in order to preserve and develop traditional music, and to enhance the international influence of Chinese national music, it has also become necessary to reform traditional instruments.

2. Reform of Low-Pitched Chinese National Instruments

The bass section in traditional Chinese orchestras has been relatively underdeveloped; consequently, Western instruments such as the double bass and cello have been introduced to enhance the depth and structure of the lower register. At the same time, traditional low-pitched instruments have undergone modifications to produce a richer timbre and greater volume, better meeting the needs of orchestral performance. Instrument reform has infused new vitality into the modernization of Chinese national music and has promoted cultural exchange and integration between Chinese national music and world music traditions (Yan, 2018). The "Peng Xiuwen Model," developed by Mr. Peng Xiuwen, made significant contributions in areas such as orchestral instrumentation and instrument reform. His compositions for Chinese orchestra remain staples in concert programs to this day (Chen et al., 2024).

Traditional Chinese instruments face certain limitations in terms of range, volume, and blendability—especially in the bass section, where the scarcity of instruments directly affects the overall sonic quality and expressive capacity of national orchestras (Yan, 2018). In response to the demands of modern musical creation and to better integrate national music into the global musical landscape, instrument reform became a necessary undertaking. Drawing on the experience of Soviet instrument modernization while incorporating the unique characteristics of Chinese instruments, Chinese music practitioners initiated bold experiments that laid the foundation for future reform efforts.

Various approaches have been adopted in the reform of national instruments. One method involves structural modifications—such as adding sound holes, altering string materials, and adjusting the size of the resonator—to expand pitch range, increase volume, and improve tone quality. Another approach borrows from Western instrument-making techniques and technologies, for instance, integrating mechanical devices or electronic components into traditional instruments to enable more precise pitch control and a broader range of tonal variation (Ma & Chen, 2024). Additionally, some musicians have experimented with combining different traditional instruments or blending national instruments with Western ones, thereby creating new types of instruments and performance techniques (Guo, 2023).

3.Theoretical Research

3.1 Cross-cultural music research

Cross-cultural music research is an interdisciplinary field that encompasses musicology, ethnomusicology, music theory, and other related areas. The aim of this field is to understand the similarities and differences in music across various cultural contexts, as well as the impact of cultural exchange on musical development. Musical instruments play a vital role in music; they serve as key vehicles for cultural expression and transmission. Therefore, instruments are an important subject of inquiry in cross-cultural music research. In the process of cross-cultural dissemination, instruments not only function as tools for musical expression but also act as carriers of cultural exchange and heritage (Liu, 2024).

Foundational Scholars in Cross-Cultural Research

John W. Berry (1980s-Present): Berry's work on acculturation has been pivotal in shaping the framework for cross-cultural studies. He introduced the concept of biculturalism and outlined four possible outcomes in the acculturation process: assimilation, integration, separation, and marginalization. In the context of musical instruments, these outcomes help explain the varying degrees of adoption and adaptation that musical instruments like the cello experience when introduced into a new cultural setting. His model of acculturation provides a foundation for understanding

how instruments are integrated into different cultural spheres while retaining elements of their original cultural identity (Berry, 2001).

Ruth Finnegan (1989): Finnegan's seminal work on musical instruments and their cultural roles emphasized how instruments both shape and are shaped by culture. She argued that musical instruments cannot be isolated from the broader cultural systems in which they exist, and that understanding their role requires examining their social, symbolic, and performative functions (Finnegan, 1989). This perspective is essential for understanding the cultural adaptation of instruments such as the cello, particularly in the context of their symbolic and functional roles in new cultural environments.

Clyde Kluckhohn (1950s-1960s): Kluckhohn's research on cultural diffusion and adaptation laid the groundwork for understanding how cultural practices, including musical instruments, spread from one society to another. He proposed that cultures can adopt or reject foreign elements based on their cultural congruence, the extent to which an imported element aligns with or disrupts existing cultural values and practices (Kluckhohn, 1951). This idea is crucial when considering how the cello has been adapted in non-Western contexts, where its integration depends on its perceived compatibility with local music traditions.

Related Literature:

In an article published in *Research and Commentary on Humanities and Arts*, Wang Chenglin (2024) proposed three practical strategies for applying ethnomusicology from a cross-cultural perspective, emphasizing the significant value of ethnomusicology in cultural transmission and exchange (Chenglin, 2024).

Patricia S. Campbell, in *Research Studies in Music Education*, examined the influence of ethnomusicological theories and methodologies on music education, as well as the reciprocal impact of music education on the research and teaching practices within ethnomusicology (Campbell, 2003).

In an article published in *Discourse*, M. P. Zamotin (2020) introduced George Herzog's research on music within the context of cultural anthropology. The

study underscores ethnomusicology as a distinct research field that integrates musical inquiry with sociocultural contexts (Zamotin, 2020).

Parsurm Prasad Poudel, in the *International Research Journal of MMC*, provided an overview of instrument classification, noting the increasing need for new classificatory systems in light of emerging practices, experiments, and technologies in the musical field (Poudel, 2021).

In *Music Theory Online*, Alexander Rehding explored the role of instruments as sources in the historical study of music theory. He posits that instruments serve as tools for scientists to understand "cognitive things," and attempts to examine music theory from the perspectives of written and sonic media. Rehding investigates three distinct music-theoretical practices, each utilizing different forms of notation and instrumentation, and serving different purposes (Rehding, 2016).

Zihan Liu, in *Arts, Culture and Language*, discussed how the guzheng engages in cross-cultural exchange and integration within the context of globalization and intercultural communication (Liu, 2024).

Sangmi Kang and colleagues, writing in the *Music Educators Journal*, explored how East Asian virtual instruments can be used to promote culturally diverse music activities in the classroom. Their work introduces traditional instruments such as the Korean *hyang-piri*, the Chinese *erhu*, and the Japanese *koto*, with the aim of helping students gain a deeper understanding of East Asian musical cultures (Kang et al., 2024).

These scholarly works examine the role of musical instruments in cross-cultural music research from various perspectives, encompassing disciplines such as ethnomusicology, music theory, cognitive science, and artificial intelligence. By synthesizing insights from this diverse body of literature, a more comprehensive understanding can be gained regarding the significance and value of musical instruments across different cultural contexts, as well as the influence of cultural exchange on their development.

3.2 Acculturation Theory

Acculturation Theory explores the process by which individuals or groups adjust their cultural traits in response to contact with different cultural environments. Widely applied in the social sciences, this theory is particularly relevant in studies on migration, cross-cultural communication, and cultural integration (Arsyad et al., 2023). In the field of music and instrument studies, Acculturation Theory offers valuable insights into the evolution of musical styles, the transmission and integration of instruments across cultures, and the role of music education in fostering cultural identity and intercultural understanding.

The Musical Cultural Adaptation Theory, an important subfield of cultural anthropology and ethnomusicology, is used to explain the dynamic mechanisms of adaptation that occur during musical contact, transmission, and fusion among different cultural groups. At its core, this theory views musical cultural adaptation as a dynamic process of "structural embedding," involving strategies for cultural survival in new environments and the integration of new elements into existing cultural systems. For example, Finnish jazz, while incorporating elements of African American music, retains local characteristics and introduces innovations through modifications in performance practices, resulting in a distinctive form known as "Helsinki jazz" (Pekka Jalkanen, 1989).

This theory emphasizes the bidirectional nature of cultural influence following intercultural contact, rather than a unidirectional process of assimilation. As Luo Yifeng notes in *A Broad Vision of Musical Anthropology*, acculturation must be understood within the framework of the "culture circle" theory, which focuses on cultural friction and integration during transmission processes that may ultimately give rise to entirely new cultural forms. Berry's "bidimensional model" further refines the strategic choices made by individuals or groups during the adaptation process, including assimilation (complete adoption of the new culture), separation (preservation of the original culture), integration (mutual fusion of both cultures), and marginalization (rejection of both the original and new cultures).

Applications of Acculturation Theory in Music and Instrument Research

Evolution and Fusion of Musical Styles: Musicians from different cultural backgrounds often incorporate diverse musical elements into their compositions during processes of collaboration and exchange, leading to the creation of new hybrid musical styles. This process of musical fusion can be interpreted as a form of cultural adaptation in music. For example, the integration of Western classical music with Eastern traditional music has produced numerous innovative works. Analyzing the compositional processes behind these works reveals clear traces of acculturation theory (Hijleh, 2016).

Transmission of Instruments and Cultural Significance: Musical instruments are not merely sound-producing devices; they also carry specific cultural meanings. When an instrument is transmitted from one cultural context to another, its playing techniques, musical functions, and even symbolic significance may change in order to adapt to the new cultural environment (Rehding, 2016). For instance, the guitar has been assigned different musical roles across various cultures—from Spanish flamenco to American rock music. Its adaptability across cultural boundaries has made it a global instrument (Mycka & Mańdziuk, 2024).

Music Education and Cultural Identity: Music education plays a significant role in helping children adapt to new cultural environments. By learning music from different cultures, students can gain a deeper understanding of and respect for diverse cultural values, thereby promoting cultural identity and intercultural communication. This is especially relevant in the education of immigrant children, where music can serve as an effective tool for cultural integration (Frankenberg et al., 2014).

Cultural Adaptation in Music Therapy: As a form of psychological therapy, music therapy also necessitates cultural sensitivity and adaptation. Therapists must consider the cultural backgrounds of their clients and select appropriate musical materials and therapeutic approaches to achieve optimal outcomes. For example, for patients from Eastern cultural backgrounds, the use of five-element music therapy may prove more effective (Kwon et al., 2024).

Recent Research Developments

Artificial Intelligence and Musical Cultural Adaptation: With the advancement of artificial intelligence (AI) technologies, AI has become increasingly integrated into music composition, recommendation systems, and education. A promising research direction involves exploring how AI can be harnessed to facilitate cross-cultural communication and fusion in music (Xu, 2019). For instance, the development of AI music generation systems capable of automatically identifying and integrating musical elements from diverse cultural traditions, or the use of AI recommendation systems to introduce users to music from various cultures, may significantly promote musical acculturation (Shi & Wang, 2020; Navarro-Cáceres et al., 2020).

Sustainability and Instrument Materials: Given the environmental impact of instrument manufacturing, sustainability has emerged as a key issue in instrument-related research. Conducting visual analyses of the diversity and threatened status of natural materials used in instrument making is critical for identifying sustainable alternatives (Jakob et al., 2024). This issue not only pertains to environmental conservation but also to the preservation and continued development of instrumental culture.

As globalization deepens, cross-cultural interactions are becoming increasingly frequent, making the process of cultural adaptation more complex and dynamic. Future research must adopt more diversified and interdisciplinary approaches—drawing from ethnomusicology, sociology, psychology, and other fields—in order to gain a more comprehensive understanding of the roles music and musical instruments play in cultural adaptation (Akbar et al., 2024; Hesselink, 2021). Additionally, greater attention must be paid to the influence of emerging technologies—such as virtual reality, augmented reality, and artificial intelligence—on musical cultural adaptation. These technologies are reshaping the ways in which people experience music and may offer new pathways for intercultural musical exchange and collaboration.

In summary, acculturation theory provides a valuable framework for understanding the roles of music and musical instruments in intercultural communication. By integrating the latest research findings and technological advancements, we can explore the mechanisms of musical cultural adaptation in greater depth. Such efforts have the potential to significantly enhance cultural diversity and foster deeper intercultural understanding.

Cultural Adaptation of the Cello in China

Cultural adaptation theory, as proposed by scholars like John W. Berry (2001), suggests that when two distinct cultural groups come into contact, individuals or groups must navigate a process of acculturation. This process involves not only the adaptation to new cultural practices but also the negotiation between maintaining one's own cultural identity and integrating aspects of the foreign culture. In the context of the cello in China, this theoretical framework is especially relevant as the cello represents the intersection of Western classical music and Chinese cultural identity.

Berry's bidimensional model of acculturation outlines four possible strategies for cultural adaptation: assimilation, separation, integration, and marginalization. In the case of the cello, it is evident that many Chinese musicians and music educators have opted for an integration strategy, where they embrace the cello's Western performance techniques while seeking to incorporate it into Chinese musical contexts. However, there are still aspects of separation and assimilation visible in certain social circles, such as traditional Chinese music purists who may resist the integration of Western instruments like the cello.

particularly the cello, in China can be traced back to the late 19th and early 20th centuries, when China was exposed to Western music through diplomatic channels, missionary activity, and cultural exchanges. The widespread institutionalization of Western classical music began in earnest after China's Reform and Opening-up in the late 20th century, when the influence of Western culture surged.

By the 1980s and 1990s, the cello became more prominent in China's music conservatories and public performances. While initially regarded as a foreign

artifact, the cello gradually became a symbol of cultural capital, especially among the elite and educated classes. As China's global cultural identity began to shift, the cello's role in society expanded from a tool of cultural prestige to a medium of cultural expression and globalization.

Contemporary Perceptions and Roles of the Cello in Chinese Society:

The cello's current role in China is multifaceted. Scholars have identified several ways in which the cello functions within contemporary Chinese society:

Symbol of Cultural Capital: Learning the cello is often associated with social status and educational success. For many Chinese families, enrolling a child in a cello program represents an investment in their child's future, reflecting a broader societal trend toward the valorization of Western classical music as a symbol of modernity and cosmopolitanism (Zhou, 2021).

Integration with Chinese Traditional Music: As China's music education system evolves, there has been a concerted effort to integrate the cello into performances of traditional Chinese music. Many Chinese musicians have experimented with blending the cello's rich tonal qualities with the distinctive features of Chinese folk instruments, creating unique cross-cultural performances that highlight both cultural continuity and adaptation (Wu, 2019).

Educational Integration: As Western classical music continues to dominate China's music conservatories, the cello is not only viewed as an academic subject but also as a vehicle for fostering an appreciation of global musical traditions. Students in Chinese music conservatories are trained in both Western classical techniques and Chinese traditional performance styles, with the cello serving as a bridge between these two musical worlds (Liu & Zhang, 2020).

Expression of Modern Identity: The cello, much like other Western instruments, has come to represent China's evolving modern identity. As global cultural flows intensify, the cello symbolizes the broader globalization of Chinese culture, where Chinese artists perform in international contexts and integrate global musical traditions with local cultural expressions (Thompson & Pickett, 2020).

4. Methodology: Longitudinal and Experimental Data in Acculturation Research

In cultural contact research, commonly used quantitative methods include surveys, statistical analysis, experimental design, and structural equation modeling (SEM). These methods collect large amounts of data and conduct precise quantitative analysis to reveal the relationships between cultural contact and related variables. Surveys are one of the most frequently used methods in quantitative research, where standardized scales are employed to measure the extent and frequency of cultural contact. For example, the Cross-Cultural Contact Scale for Chinese university students includes multiple dimensions (such as direct verbal contact, written contact, etc.), and uses a Likert scale for scoring (Ping & Ping, 2024).

Structural equation modeling (SEM) is a multivariate statistical analysis method that combines factor analysis and path analysis to study the complex causal relationships between variables. The basic principle of SEM includes two components: the measurement model, which analyzes the relationship between observed variables and latent variables, and the structural model, which describes the causal relationships between latent variables. SEM is suitable for handling direct, indirect, and common factor effects among multiple variables, and is particularly adept at analyzing relationships between latent variables that cannot be directly observed. SEM is widely applied in fields such as social sciences, psychology, economics, and education, for purposes such as hypothesis testing, exploring causal relationships between variables, evaluating the effectiveness of educational methods, and studying health behaviors. Additionally, SEM can be used for model comparison and validation, helping researchers select the best model to reflect real data (Hidayat & Patricia Wulandari, 2022).

Statistical analysis plays a crucial role in cross-cultural music research, as it enables researchers to identify commonalities and differences in music from various cultures, thereby providing a deeper understanding of both the universality and cultural specificity of music. Such studies often involve the collection and analysis of large-scale music data, encompassing various musical features such as melody, rhythm, pitch, and

others (Brinkman & Huron, 2021). Quantitative research relies on statistical analysis methods, including correlation analysis, regression analysis, factor analysis, and multivariate statistical analysis.

Cross-cultural music research often draws on the theories and methods of ethnomusicology, integrating statistical analysis techniques to study musical phenomena in different cultural contexts in a quantitative manner (Chenglin, 2024). For instance, researchers may apply statistical methods to analyze melodic trends, rhythmic patterns, or scale structures in music from different cultures, in order to reveal both the cross-cultural commonalities and cultural differences of music (Krumhansl et al., 2000). Additionally, cross-cultural research methods have been applied in fields such as social work, where data from different cultural groups is compared to identify cultural differences and commonalities (Tran & Chan, 2021).

Some studies have constructed cross-cultural music corpora to conduct statistical analyses of music from different cultural backgrounds, verifying whether certain musical features possess cross-cultural universality. For example, researchers have built a corpus that includes music from various cultures such as European and Native American music, and have conducted statistical analyses on features like melodic organization (Brinkman & Huron, 2021). Furthermore, other studies have used music classification techniques and statistical tools to analyze 304 global music recordings, discovering many statistically common features related to pitch, rhythm, and social context (Savage et al., 2015).

Through statistical analysis, researchers can identify cross-cultural commonalities in music, such as the frequency with which certain scales or rhythmic patterns appear across different cultures, which may reflect universal human cognitive or cultural principles (Trehub et al., 2015). At the same time, statistical analysis helps researchers uncover the cultural specificities of music, such as music styles or performance techniques that may only exist within particular cultures, reflecting the unique history and cultural background of that culture (Peng, 2023).

Combining statistical analysis and ethnomusicological methods, the crosscultural study of the cello in China can be approached from the following aspects:

The History of Cello Music Dissemination in China, Its Audience, and Cultural Influence: This includes investigating the spread of cello education in China, as well as examining the extent to which Chinese audiences accept and prefer Western cello music (Syun, 2024).

Ethnomusicological Approaches to Chinese Cello Works: Using ethnomusicological methods, research can focus on the cultural connotations, national styles, and musical aesthetics of Chinese cello compositions (Bi, 2020). For example, analyzing the cello works of composers such as Wang Liansan and Situ Zhiwen, exploring how they integrate elements of traditional Chinese music with Western cello techniques, thereby showcasing the unique charm of Chinese culture.

Cultural Adaptation Theory in the Spread of Cello Music in China: Combining cultural adaptation theory, this area of study explores how cello music has integrated with traditional Chinese culture during its dissemination, resulting in new musical forms. For instance, examining how elements of traditional Chinese music are incorporated into contemporary Chinese piano compositions to achieve a harmonious unity of tradition and innovation (Zhao, 2024).

Experimental Research on Audience Perception: Finally, through experimental studies, research can explore the cognitive differences among Chinese audiences regarding cello music from different cultural backgrounds.

CHAPTER 3 METHODOLOGY

1.Research Methodology

This study adopts a comprehensive and multifaceted research methodology to explore the historical development, nationalization, and contemporary significance of the cello in China. By integrating historical analysis, ethnomusicological fieldwork, and a questionnaire survey, the research aims to provide a holistic view of the cello's transformation within Chinese music culture. The approach draws from a range of theoretical perspectives, with particular emphasis on intercultural fusion of musical instruments and cultural adaptation theory, to investigate the cello's evolving role in Chinese orchestras and its broader social and cultural implications in contemporary Chinese society.

1.1 Intercultural Fusion of Musical Instruments and Cultural Adaptation Theory

The theoretical foundation of this study is rooted in the concept of intercultural fusion of musical instruments, which examines how foreign instruments, like the cello, are integrated into and transformed by different cultural environments. In the case of China, this involves studying how the cello, a Western instrument, has been modified and adapted to fit into Chinese orchestral traditions and how it reflects the dynamic interplay between Western musical influence and Chinese cultural identity. This theory is particularly useful for understanding the complex processes through which foreign musical elements are assimilated, reinterpreted, and localized in non-Western contexts, such as in Chinese orchestral settings.

Additionally, the study is guided by cultural adaptation theory, which posits that when cultural elements, such as music and musical instruments, are introduced to a new society, they undergo processes of modification to align with the values, norms, and practices of the host culture. In the case of the cello in China, cultural adaptation theory helps explain how the instrument was not only integrated into Chinese orchestras

but also reshaped to reflect the unique sociocultural and political environment of China. The theory suggests that the cello's assimilation into Chinese national orchestras involves not merely the physical introduction of the instrument but also a cultural reconfiguration that aligns with local practices, ideologies, and identity constructions.

1.2 Integrating Cultural Adaptation in the Research Process

In practice, cultural adaptation theory plays a crucial role in guiding the research process, particularly in understanding the historical and social context in which the cello was introduced to China. This study examines how the historical phases of Chinese music, including the early 20th-century encounters with Western music and the subsequent adaptation of Western instruments, have shaped the way the cello is perceived and utilized in Chinese orchestras. From the early influences of foreign musicians to the nationalization of music during the socialist period, cultural adaptation theory provides a framework for understanding the strategic transformations that the cello underwent, including changes in performance practices, repertoire, and cultural symbolism.

Moreover, the theory of cultural adaptation also helps illuminate the ongoing evolution of the cello's role in contemporary China. In today's society, the cello serves not only as a tool of artistic expression but also as a symbol of China's engagement with global cultural flows. By integrating the cultural adaptation perspective, this study explores how the cello, originally introduced as a Western instrument, has become embedded in the national identity and musical traditions of China. It looks at how Chinese musicians and educators have negotiated the instrument's place within both traditional Chinese orchestras and modern performance contexts, balancing global influences with local cultural imperatives.

The survey and ethnographic components of the research also benefit from this theoretical lens. By investigating how modern Chinese students, musicians, and educators perceive the cello, the study can evaluate how perceptions of the instrument continue to evolve within the cultural and educational frameworks of contemporary China. The results of the questionnaire survey and fieldwork will provide empirical

insights into how the cello's social attributes and cultural significance are continually shaped by the forces of cultural adaptation, as new generations of musicians negotiate their relationship with both local traditions and global musical trends.

In summary, cultural adaptation theory is integral to understanding the multifaceted ways in which the cello has been reshaped within the Chinese musical context. This theory not only informs the historical analysis of the cello's integration into Chinese orchestras but also provides a lens through which to understand the instrument's contemporary role in reflecting China's cultural identity in the modern world. The research methodology, enriched by intercultural and adaptation theories, enables a thorough investigation of the cello's historical trajectory, cultural implications, and ongoing transformation within Chinese music culture.

1.3 Theoretical Framework

The theoretical framework of this study is rooted in two key concepts: intercultural fusion of musical instruments and cultural adaptation theory. The theory of intercultural fusion of musical instruments examines how foreign musical instruments, such as the cello, are integrated into different cultural contexts and how these instruments undergo transformations in form and function within those contexts. Cultural adaptation theory, on the other hand, focuses on how elements of one culture are modified and reinterpreted in response to the norms and values of another culture. By applying these theoretical lenses, the study will explore how the cello has been incorporated into Chinese orchestral music and how its role has evolved to reflect the sociocultural dynamics of Chinese society.

2. Research Design

The research methodology is structured around three core components: literature review, fieldwork, and questionnaire survey.

A. Literature Review and Historical Analysis

The first phase of the research involves a structured literature review of primary and secondary sources. Primary sources include historical documents from the Qing Dynasty, government reports on cultural policies, and music manuscripts, while

secondary sources include scholarly journal articles, books, and ethnomusicological studies. A systematic review of these sources will provide a comprehensive understanding of the historical development and nationalization of the cello in China. The literature selection process adheres to strict academic criteria, focusing on the academic credibility, historical relevance, and cross-validation of sources. This will allow the study to examine the cello's integration into Chinese national orchestras, focusing on the historical shifts in its role from the 18th century to the present.

B. Fieldwork Methodology

Fieldwork is a critical component of this research, providing a means to gather primary data through direct engagement with historical sites, performances, and experts in the field. The research sites will include historical archives, musical instrument collections, and cello manufacturing factories in key cities such as Beijing, Shanghai, and Harbin. These cities are significant due to their historical and contemporary roles in the development of the cello in China. The fieldwork will involve archival research, observational studies, and interviews with musicians, music educators, instrument makers, and cultural scholars. Through these methods, the study will examine how the cello has been adopted and adapted in Chinese orchestral music, as well as the sociocultural factors influencing its integration into national orchestras. Specifically, the research will focus on the evolution of cello performance practices, the influence of Western music traditions, and the role of Chinese musicians in shaping the development of the cello in China.

C. Questionnaire Survey Methodology

The third phase of the research involves a questionnaire survey designed to gather insights into the perceptions, experiences, To study the cello's evolving role in China, a survey-based study employing both longitudinal and experimental data is proposed. This approach will offer a deeper understanding of how perceptions of the cello change over time, particularly in relation to cultural exposure, educational background, and globalization.

and cultural significance of the cello among Chinese music students. The survey will target 154 cello students and 70 college students across mainland China. The sample will include a diverse range of participants to capture a variety of perspectives on cello education, its role in Chinese music, and its broader social and cultural significance. The questionnaire will consist of closed-ended questions to collect quantitative data on students' experiences with cello learning and performance, as well as open-ended questions to provide qualitative insights into students' views on the cello's role in Chinese music. The survey will be conducted via an online platform, Wenjuanxing.com, and will include follow-up opportunities for further interviews with 59 participants who voluntarily provide their contact information.

Survey Development: The survey will include questions related to: Demographic variables (e.g., age, ethnicity, education level, geographic location) to capture diverse perspectives. Cultural perceptions of the cello and its integration into Chinese society. Music education background, including exposure to Western classical music and the cello. Functional roles of the cello, focusing on its symbolic, academic, and expressive roles in contemporary China. Longitudinal Data Collection: The study will utilize online panels to recruit participants, with data collection taking place over multiple time points. This longitudinal approach will allow researchers to track changes in perceptions of the cello over time, particularly as Chinese society becomes increasingly exposed to globalized cultural influences.

Experimental Conditions: Experimental methods will be employed to assess the contemporary social functions and attributes of the cello. Through cross-group comparisons, the study will examine whether attitudes toward the cello differ across various cultural or demographic groups, such as ethnicity, geographic location, or level of musical training. Researchers will evaluate the causal relationship between cultural exposure and attitudes toward the cello.

Data Analysis: Quantitative methods such as statistical analysis are employed to examine the relationships among cultural contact, educational background, and attitudes toward the cello. Longitudinal analysis is particularly useful for tracking

changes in cultural attitudes over time and provides insights into how the process of cultural adaptation unfolds across different temporal stages.

3. Data Analysis Approach

The data collected from the literature review, fieldwork, and questionnaire survey will be analyzed using several key methods:

Comparative Historical Analysis: This method will be used to trace changes in the use and perception of the cello in China over time, with a particular focus on the historical development of the cello's role within national orchestras.

Thematic Content Analysis: Thematic analysis will be applied to the questionnaire responses and fieldwork data to identify cultural patterns and social factors influencing the adaptation and integration of the cello into Chinese orchestral music.

Sociocultural Interpretation: This analysis will focus on understanding how the cello's role has evolved within the broader context of Chinese musical identity, including its cultural significance in contemporary Chinese society.

4. Research Contribution

This study's interdisciplinary methodology, combining historical, ethnomusicological, and sociocultural approaches, will contribute to a nuanced understanding of the historical development of the cello in China, particularly its integration into Chinese national orchestras. Furthermore, the study will provide empirical insights into the contemporary cultural significance of the cello, examining how modern Chinese students perceive the instrument and its role in shaping their musical identity.

Through the questionnaire survey, the research will shed light on the evolving social attributes of the cello, exploring its cultural positioning within new cultural groups in contemporary China. The fieldwork findings will enhance the study by validating literary sources with real-world case studies and expert perspectives, providing a well-rounded view of the cello's transformation in China.

In conclusion, this study aims to offer a comprehensive examination of the historical evolution and cultural adaptation of the cello within Chinese music, focusing on its integration into national orchestras and the social attributes it holds in contemporary Chinese society. By employing an interdisciplinary approach that incorporates both literary analysis and empirical fieldwork, the research will contribute to a deeper understanding of the cello's place within China's musical landscape and its significance within broader cultural contexts.

5. Data Analysis

In alignment with the research objectives, this study systematically analyzes data to examine the historical evolution, cultural adaptation, and contemporary significance of the cello in Chinese music. Based on the collected data, the researcher has categorized and structured the analysis into the following key themes:

- 1 To study the historical development of cello art within the context of China's nationalization process.
 - 1.1 From AD 1741 to 1900: The Adaptation of the Cello in China
 - 1.1.1 Formation of Western Bands
 - 1.1.2 Western Music in the Folk Context
 - 1.2 From AD 1900 to 1949: The Budding Period of Cello Art in China
- 1.2.1 The Presence and Influence of Foreign Musicians in Early20th-Century China
- 1.2.2 The Influence of Russian Immigrant Musicians on Cello Performance and Teaching in Harbin
 - 1.2.3 Early Native Chinese Cellists
- 1.2.4 Representative Early Compositions in the Chinese Cello Repertoire
- 1.3 From AD 1949 to 1979: The Period of National Integration in Chinese Cello
 - 1.3.1 National cello works
 - 1.3.2 The cello in model operas.

- 1.4 From AD 1749 to 2000: The Period of Comprehensive Artistic Development
- 1.4.1 International Achievements and the Internationalization of the Education System
- 1.4.2 Global Uniqueness of the Professional Setting and Educational System
 - 1.5 The Diversification of Cello Art in China Since 2000

Conclusion

- 2. The analysis of the application and influence of the cello in Chinese national orchestral music
- 2.1 The Application of the Cello in Different Historical Stages of Traditional Orchestras
 - 2.1.1 The Cello in Early Chinese Westem Orchestras
 - 2.2.2 Reform and Innovation of Chinese National Orchestras
 - 2.2 Reform of Low-Pitch Instruments

Cello-Inspired Reformed Traditional Bass Instruments

Characteristics of Reformed Traditional Bass Instruments in China

2.3 The Cello's Integration and Acceptance in Chinese Orchestral

Practice

The Vanguard Band of the Jinan Military Region Shanghai Chinese

Orchestra

- 2.4 The Maturation of Cello Application in National Orchestras
 - 1. China Broadcasting Chinese Orchestra
 - 2. China National Traditional Orchestra
 - 3. Shanghai Chinese Orchestra
- 2.5 The "Nationalized Coloration" of Chinese Cello Works

Artistic Characteristics of Chinese Cello Compositions Analysis of

Works

- 3 To examine the social roles and cultural significance of the cello in contemporary China.
 - 3.1 The Sociocultural Impact of Cello in the Contemporary Era
 - 1. Public Welfare Cello Masterclass
 - 2. Cello Festival
 - 3.2 The New Roles of Cultural Groups
 - 3.3 Contemporary Communication Methods
 - 3.4 Cultural Identity in the Context of Popular Culture
 - 4. Conclusion



CHAPTER 4 ANALYSIS

This paper will thoroughly explore the art of the cello in China. The cello is a gentle yet "sunny" instrument, embodying the most sincere emotions of humanity. It serves as a perfect tool for expressing the human spiritual world and the inner currents of the soul. The cello's form is dignified, and its sound is beautiful. In the hearts of people, it is like a musical conduit sent from heaven, producing a sacred, soul-stirring sound. In the context of globalization, the cello is not only a representative instrument of Western music but also a reflection of China's diverse and unified musical culture.

The research will begin with the introduction of the cello to China, detailing its development across different historical stages. These stages include the initial introduction during the late Qing and early Republican period, the gradual promotion and nationalization exploration after the founding of the People's Republic of China, and the diversified development following the Reform and Opening period. The study will outline the general timeframes, important events, and landmark achievements of each stage. Additionally, it will examine key figures who played pivotal roles in the nationalization process of the cello, analyzing their major contributions and influence. The research will also enumerate representative cello works from each stage, exploring their unique value and artistic characteristics in the process of nationalization.

The paper will investigate the cultural integration of cello art during China's nationalization process, exploring how it has been influenced by traditional Chinese musical culture and its interaction with China's socio-historical context. This includes examining the development conditions and evolutionary trends in different political, economic, and cultural environments. Furthermore, the study will focus on analyzing the practical application and impact of the cello in Chinese national orchestral music. It will discuss the role and function of the cello in Chinese national orchestras, its contribution to ensemble arrangement, sound effects, and its significant impact on the reform of Chinese low-pitched instruments. The research will analyze how the inclusion of the

cello has enriched and expanded the expressive capacity and tonal range of Chinese national orchestral music, enhancing its overall artistic effect.

Finally, the study will analyze the results of a survey, exploring the multifunctional and cultural value of the cello in contemporary Chinese society. It will examine its applications in concert performances, cultural activities, film music, and other areas. The research will also discuss the cultural functions of cello art in contemporary China, including its role in music education, mass cultural dissemination, and international cultural exchange.

The conclusion will highlight how the development of the cello in China reflects its deep integration with the national musical culture, as well as its diverse value and important role in contemporary society.

1 To study the historical development of cello art within the context of China's nationalization process.

1.1 From AD 1741 to 1900: The Adaptation of the Cello in China

During the Wanli period of the Ming Dynasty, Western music began to enter China. By the early Qing period, this exchange between Chinese and Western musical cultures became increasingly frequent, evolving from a one-way flow to a two-way interaction. The early Qing period marked a time of stability and prosperity in China's feudal society. Over nearly two centuries, the Qing Dynasty experienced various stages, from the conquest of China and the establishment of the empire to its subsequent decline. Due to the long-standing "closed sea" policy, Chinese society remained isolated and stagnant, and the pace of international exchange noticeably slowed.

Around this time, Western countries were undergoing significant changes, marked by the Renaissance, the opening of new trade routes, and the rapid development of modern capitalist societies. With the growing power of Western nations and their increasing expansionist efforts, the Jesuit order—acting as both the avantgarde and agents of Western colonial empires—played a key role in introducing Western cultural and artistic influences to China. This phenomenon is often referred to as the "Eastern Transmission of Western Learning."

Regarding the exchange of musical arts between China and the West, by the early Qing period, Chinese music had already developed into a mature and wellestablished system, with a relatively stable cultural form. In contrast, Western music was beginning its early stages of rapid development, evolving alongside profound societal and cultural changes in modern European society. Influenced by the Renaissance, music gradually became more infused with secular emotions, shifting from sacred church music to compositions for the private residences of secular monarchs and nobles. The development of the five-line staff notation system, the gradual formation of functional harmony, and the advancement of high-precision instrument manufacturing all contributed to the broader horizons of European music. As Europe entered the capitalist era, accompanied by military expansion, it also engaged in ideological and cultural promotion. Western powers dispatched numerous missionaries to various countries to conduct religious activities and spread Western culture. During this period, Western music entered China, with missionaries serving as key mediators in the transmission of Western music. They played an important role in the process of introducing Western music to China.

The cello was first introduced to China by Western missionaries during early Sino-Western cultural exchanges. In the diplomatic activities of the Qing court, the instrument, as a unique cultural medium, was presented as a diplomatic gift to the imperial family. Its

distinctive shape and timbre were regarded by Emperor Qianlong as an "exotic Western treasure" and preserved in the imperial collection. This cross-cultural gifting, mediated by musical instruments, not only reveals the initial pathway of the cello's introduction to China but also exemplifies the material exchange characteristic of 18th-century Sino-Western cultural interaction, serving as an important historical testament to the rooting of Western musical art in the East. According to records in the Qing Imperial Household Department Workshop Archives preserved in the Chinese Historical Archives, the earliest confirmed date of the cello's introduction to the Chinese

imperial court can be traced back to the sixth year of the Qianlong Emperor's reign (1741).

According to records in the Qing Dynasty archives "Ge zuo Cheng zuo Huo ji Qing dang" stored in the First Historical Archives of China, by the Qianlong period, the imperial court already possessed instruments such as the violin, cello, and Western flute. In the seventh year of the Qianlong reign (1742), there is a record by Lu Zhong xian stating, "Recognizing one Western instrument, the cello, and one violin."

During the Qianlong period and subsequent historical stages, Catholic missionary activities continued in China. In Beijing, many missionaries conducted their work while holding positions in Qing government institutions. Some of these missionaries served in the Imperial Astronomical Bureau (Qintianjian), a position that had been occupied by missionaries since the time of Matteo Ricci in the early Qing period. For much of this historical period, the leadership roles in the Qintianjian were held by missionaries. They played a key role in the Bureau, overseeing astronomical observations and the compilation of calendars, among other essential duties.

In addition to their roles at the Qintianjian, many Western artifacts within the Forbidden City, such as self-striking clocks, music boxes, and various musical instruments, were maintained and repaired by missionaries. Their technical expertise was crucial for the proper functioning of these precious Western objects within the imperial court.

Moreover, missionaries also served as court-appointed Western music teachers, providing musical education and instruction to members of the imperial family. "The earliest cello players in China were likely young eunuchs in the Forbidden City, taught by Western missionaries who could play the violin" (Qian, 2001). This form of cultural transmission further deepened the exchange between Chinese and Western musical traditions. However, as time passed, by the Jiaqing and Daoguang periods, although missionary activities in the local regions began to decline and their influence waned, they continued to play a pivotal role as intermediaries in Sino-Western musical exchanges. This historical period not only reflects the multifaceted roles of missionaries

beyond religious propagation but also highlights their unique contributions to the promotion of Sino-Western cultural interaction and integration.

1.1.1 Formation of Western Bands

During the early Qing period, Western music and instruments began to be introduced to China in large numbers, a process closely associated with the activities of Western missionaries. Missionaries such as *Matthieu Richelet* (1620–1705) and *Xu Risheng* (1661–1744), who served in the imperial court, presented Western instruments to the Qing court and actively taught Western music theory to the rulers and court personnel, enabling them to learn and play Western music on Western instruments. As a result, they formed Western-style bands modeled after Western practices. These Western bands used Western instruments, but their compositions varied. One such band was composed of Western missionaries, most of whom were skilled in music theory and proficient in playing musical instruments, and who had come to China as part of their religious mission.

According to *François Froger* (circa 1670), in his *Voyage to China*, nine missionaries were noted for their particular talents, two of whom—*Philibertus Geneix* and *Louis Pemon*—were proficient in music. In fact, before these French missionaries arrived, there were already several missionaries in Beijing who were skilled in music. For example, *Xu Risheng* (1661–1744), who was an expert in music, served as the music teacher to Emperor Kangxi (1654–1722). A Chinese missionary from Macau, *Ma Mamun*, was an organist and served as a music master in a church. Additionally, a layman named *Gherardini* was capable of playing the bass guitar and the naval trumpet. With these new and old musicians coming together, they formed a small Western band.

During the reign of Emperor Kangxi, the Western band at court had not yet fully formed and often consisted of temporary gatherings for ensemble performances. Due to the lack of regular training, the coordination between the musicians was insufficient, and Emperor Kangxi once reprimanded the band sharply for their dissonant performance during a rehearsal. This incident was recorded by *Fang Hao* in *History of Sino-Western Relations*. However, over time, the coordination between

band members improved, and Emperor Kangxi was able to enjoy their performances for extended periods. Despite this, the band did not have a fixed composition and was more of an ad-hoc ensemble, essentially functioning as a performance group.

In the reign of Emperor Qianlong (1711–1799), he consciously sought to emulate the example set by his grandfather, Kangxi, but with greater emphasis on the entertainment value of Western music. As a result, he creatively established a Western band within the palace, reflecting a further acceptance and application of Western music during the Qianlong era. This initiative not only continued the traditions from the Kangxi period but also saw advancements in the size, playing techniques, and repertoire of the band, which highlighted the court's increasing demand for and appreciation of Western music.

The two most prominent Western musicians at the Qianlong court were Wei Jijin (Florian Bahr) and Lu Zhongxian (Jean Walter), both of whom enjoyed the favor of Emperor Qianlong. Wei Jijin (Florian Bahr), a German Jesuit, was described by Fei Laizhi in A Biographical Dictionary of Jesuits in China during the Ming and Qing Dynasties as highly proficient in music, particularly excelling in the performance of the violin. He was regarded as an "outstanding violinist" and an "exceptional musician." In addition to his performance skills, Wei Jijin was also highly adept in the repair of musical instruments. During his missionary work in northern China, he frequently returned to the imperial court to inspect instruments, adjust tuning, and repair organs and other musical instruments. He was appointed as the court's music teacher, and, together with the Bohemian (now Czech) Jesuit Lu Zhongxian (Jean Walter, 1708–1759), he organized and instructed a choir composed of 18 young eunuchs (pages) at the court, teaching them chants and other musical practices.

Lu Zhongxian (Jean Walter), a Czech missionary, was invited to Beijing by fellow missionaries and appointed as a court music teacher. Like Wei Jijin, Lu Zhongxian was an accomplished musician and gained the favor of Emperor Qianlong. According to Charles Gobien (1656–1740) and Jean-Baptiste Du Hald (1674–1743) in their edited collection, Letters of the Jesuit Missionaries in the Far East, Wei Jijin and Lu

Zhongxian collaborated on the composition of 16 pieces of music and lyrics specifically created for the Qing court's use. These 16 works, which fused both Western and Chinese musical elements, were designed for performance at the imperial court.

Under the guidance of *Wei Jijin* and *Lu Zhongxian*, Emperor Qianlong issued an edict to establish a Western-style orchestra. The task was entrusted to *De Bao*, a minister of the Imperial Household Department, who made specific arrangements for the orchestra's composition, rehearsals, and instruments. *Lu Zhongxian* served as the conductor of the orchestra, and special uniforms, boots, hats, scarves, and fake beards were created for the Western musicians, dressing them in a manner resembling that of traditional Chinese court musicians. The musicians were required to rehearse at the *Yingtai* (a rehearsal hall) and also trained 14 young eunuchs to play instruments. The orchestra, which was primarily intended for chamber music, included instruments such as the guitar, mandolin, cello, violin, clarinet, and oboe. The 14 eunuchs, dressed in traditional Chinese garments with fake beards and flowered coats, performed as the orchestra's musicians.

In 1778, the missionaries performed the Italian opera *Cecchina* at the palace, with the Western orchestra responsible for the musical performance. However, despite Emperor Qianlong's support for the orchestra, his musical talent was far inferior to that of his grandfather, Emperor Kangxi (1654–1722), and he did not particularly appreciate Western music. The formation of the orchestra was primarily for entertainment rather than a genuine interest in Western musical traditions, and the orchestra was disbanded shortly after its creation.

1.1.2 Western Music in the Folk Context

Western music, as an integral part of Western thought and culture, was introduced to China during the early Qing period. During this time, Western political landscapes were undergoing dramatic changes, and social ideologies were evolving. Western music, amidst this historical backdrop, underwent multiple processes of self-updating and selective adaptation, gradually revealing its modernity and superiority. When Western music encountered China's traditional thoughts and artistic culture, it

inevitably impacted its development and transformation. Scholars and literati, well-versed in Chinese society and culture, possessed the ability to appreciate and critique artistic and cultural forms. Upon exposure to Western music, they became one of the key groups to engage with this new art form in China. Although Western music was not widely disseminated in early Qing society, there was already a specific audience group, and Western musical instruments became a fascinating novelty. The subtle and refined mood embedded in Western compositions was also widely praised.

At the same time, the general public's attitude toward Western music can be categorized into two main perspectives. The first attitude was one of appreciation and acceptance. In the early Qing period, the Chinese public's attitude toward Christianity was complex and varied, and this attitude partially reflected their reception of Western music. In their belief system, utilitarianism, superficial faith, and polytheism were prominent features. Due to this, their objects of worship were often diverse. However, as time progressed, the public's engagement with Christianity deepened, and the number of believers steadily grew. Among the factors driving this change was the curiosity and demand for Western music. Western music was almost always associated with Christian missionary activities, with missionaries skillfully using music as a medium to reduce hostility toward Christianity and even attract converts. As Xu Risheng stated, "Many people accepted Christianity and concluded that it was similar to their own religion, which led them to embrace it." The use of Western music in missionary work illustrates the potential for the Chinese public to appreciate and accept this music. This acceptance, to a certain degree, profoundly influenced their daily lives and became a new element and experience in their cultural life.

The second attitude, which represented the majority of the public, was one of misunderstanding and rejection. Despite the introduction of Western music into China during the early Qing period, most people still found it difficult to understand and, in some cases, could not identify with it. The Western music introduced at that time was primarily church music, including instrumental performances, choral pieces, music theory knowledge, and hymns, most of which took place within church settings.

However, due to the large size of certain Western musical instruments, which were cumbersome to transport and use, and the scarcity of people who understood Western music theory, the likelihood of widespread dissemination in society was minimal. Moreover, the common people, who were at the bottom of the social hierarchy, lived in hardship, with survival being their primary concern. As a result, their exposure to Western music was often passive, and they could only encounter it through public music performances, church activities, or mass media like newspapers. For most people, Western music was little more than a form of entertainment or a curiosity. Due to their poverty and constant struggle for survival, their capacity to appreciate, understand, and engage with Western music was relatively limited. They could not invest significant energy into delving deeper into this music and exploring it further. Thus, for the majority of the public, Western music remained a distant and ambiguous presence, and they approached it with a sense of passive curiosity rather than genuine appreciation.

From the analysis of these two distinct attitudes, it becomes clear that the introduction of Western music into China during the early Qing period had a complex and profound impact on Chinese society. For the common people, their attitudes were marked by a clear polarization. Some, driven by curiosity and the desire for aesthetic enjoyment, gradually developed an acceptance and appreciation for Western music. This shift, in turn, contributed to a deeper involvement with Christianity and changes in their daily lives. However, for most of the population, limitations such as living conditions, cultural background, and lack of musical knowledge made it difficult for them to understand, let alone identify with, Western music. Their exposure to this art form remained shallow and passive, without the opportunity to deeply engage with its artistic appeal. This divergence in public attitudes reflects both the cultural diversity and complexity of early Qing China, as well as the challenges and opportunities Western music faced in its dissemination. In today's world, where cultural exchange between the East and West is increasingly frequent, reviewing this historical period offers important insights into the interaction between different cultures and the relationship between cultural transmission and innovation.

1.2 From AD 1900 to 1949: The Budding Period of Cello Art in China

In the late 19th and early 20th centuries, the rise of the New Culture Movement marked a profound transformation in the realm of Chinese thought and culture. Centered on the principles of democracy and science, this movement advocated for new cultural values while critiquing and challenging traditional ones, launching an unprecedented assault on the feudal ideological system and significantly liberating the public consciousness. Within this sociopolitical context, the transmission of Western musical culture in China accelerated markedly. Political and cultural developments created favorable conditions for the introduction of Western music, which gradually permeated multiple layers of Chinese society and brought about fundamental changes in the development of the Western music system and cello art in China.

At that time, cello art in China was still in its nascent stage, largely propelled by foreign expatriates and the influences of colonial culture. The country lacked indigenous talent in both cello performance and composition. Nevertheless, the increasing presence of foreign musicians engaging in teaching and performance activities laid the groundwork for the dissemination of cello art. The establishment of specialized music education institutions further supported the inheritance and development of the cello tradition. Additionally, the introduction of Western orchestras enabled Chinese audiences to experience the charm of the cello firsthand, enriching China's musical landscape.

However, the development of cello art during this period unfolded amid the broader context of Sino-Western cultural encounter. It not only reflected the complexity of China's musical transformation in the modern era but also revealed the nation's relatively passive stance in the processes of cultural absorption and integration.

1.2.1 The Presence and Influence of Foreign Musicians in Early 20th-Century China

During the first half of the 20th century, foreign musicians played an extremely important role in the development of cello music culture in China, and their contributions should not be underestimated. According to existing historical records, their involvement with Chinese musical culture began as early as 1904 and continued beyond the founding of the People's Republic of China in 1949.

In the early 20th century, Shanghai, as the most cosmopolitan metropolis in Asia, attracted considerable attention from Western artists due to its open and inclusive social environment and its thriving economy. On one hand, the city's openness provided foreign musicians with ample space for artistic expression and professional development. On the other hand, many foreign musicians, fleeing war and turmoil in their home countries, came to Shanghai as a refuge—some temporarily, others for the long term. In addition, a smaller number of foreign musicians came to Shanghai out of admiration for China's ancient and rich cultural heritage.

In 1919, Italian musician Mario Paci (1878–1946) arrived in Shanghai to take a position with the Shanghai Municipal Orchestra (formerly the Shanghai Public Band). He initiated large-scale expansion and reorganization of the orchestra, recruiting world-class musicians, including Russian cellist Vladimir Shiller, which significantly elevated the ensemble's artistic level. Under his leadership, the orchestra became one of the finest in the Far East and even gained international recognition. This also provided a vital platform for the dissemination and development of cello performance in Shanghai. Furthermore, following the outbreak of World War II, many Jewish musicians fleeing Nazi persecution sought refuge in Shanghai. They brought with them a wealth of cello repertoire and performance activities, further enriching the cello culture in the city. Among them was J. Krauss, former principal cellist of the Berlin Opera House, who taught at a private conservatory in Shanghai. One of his students was Chinese cellist Yu Ruihui, prior to her admission into the Shanghai National Conservatory of Music. Krauss was active both as a teacher and performer. On November 27, 1943, he performed works by Alexander Glazunov (1865-1936), David Popper (1843-1913), and Giovanni Sgambati (1841-1914) at a concert hosted by the European Jewish Artists' Society (EJAS) at the Donghai Grand Theatre in Shanghai.

On December 17, 1944, cellist Claude gave a solo cello recital at the Lyceum Theatre. It can be said that during the 1940s and early 1950s, the majority of active musicians on the Chinese musical stage were Jewish. Many of them had held core positions in top-tier European orchestras prior to the war. Their arrival in China not

only introduced the performance techniques of the German-Austrian cello school but also brought with them the highest levels of contemporary international cello artistry. They introduced the latest compositions for the instrument, helping to establish a strong foundation for the development of cello art in China at a high artistic standard.

Moreover, foreign musicians also contributed to Chinese cello education by teaching at institutions such as the Shanghai National Conservatory of Music, where they trained a new generation of Chinese cellists. From a broader perspective, their presence and activities not only facilitated the dissemination of cello art in China but also fostered the diversification of modern Chinese musical culture. Through the cultural exchanges and artistic interactions between East and West, Chinese music absorbed new influences and gradually moved toward modernization.

In other cities in China, such as Dalian, Western music was indirectly transmitted through Japan due to its geographical proximity. At the Yamato Hotel in Dalian, the "Muraoka Orchestra" formed by Japanese musicians Takatsu Minoru and Muraoka, became an important institution. The orchestra's cellists in Dalian were also involved in cello teaching activities, further contributing to the dissemination of cello art in the region.

1.2.2 The Influence of Russian Immigrant Musicians on Cello Performance and Teaching in Harbin

In the early 20th century, with the construction of the Chinese Eastern Railway, a large number of Russian expatriates, including highly skilled musicians and music teachers, settled in Harbin. Many of these individuals, either to meet the musical education needs of the expatriate community or attracted by Harbin's open and inclusive cultural environment, founded music schools and engaged in music teaching activities. Their contributions played a significant role in the development of music culture and education in both Harbin and China. Russian expatriate musicians also had a profound impact on the performance and teaching of the cello in Harbin.

One of the key developments was the establishment of music schools. The first Russian expatriate higher music school in Harbin was founded in May 1921,

and it initially employed five cello teachers. Notable Russian expatriate cellists such as Gistekin and M.A. Vizinberg, who were renowned musicians and performers in Russia, brought their rich teaching and performance experience to Harbin. They implemented a comprehensive European-style music education system, which emphasized the integration of theory and practice. In their teaching, they organized various forms of chamber music ensembles, encouraging student participation in regular student concerts and ensemble performances. This allowed students to gain exposure to chamber music works, improving their artistic cultivation and enriching their stage experience. The cellists paid particular attention to the development of fundamental skills, requiring students to begin their daily practice with long, open-string exercises. As students advanced, they gradually progressed to various modes, scales, arpeggios, and double stops, building a solid technical foundation while incorporating études and repertoire into their training. This approach ensured a comprehensive grounding for the students. In terms of performance teaching, the cellists preferred to guide students in expressing musical emotions through an inspirational teaching method. During each lesson, they would demonstrate the performance of pieces, providing students with both rational understanding and enhancing their sensory and auditory perception. This process deepened students' emotional connection to the music and developed their ability to interpret it. When facing technical challenges, the students were encouraged to focus their efforts on overcoming the difficult passages. At the same time, enough room was left for imagination and creative expression, which facilitated the development of each student's unique artistic identity.

In July 1925, the second formal professional music school, the Harbin Glazunov Higher Music School, was established. It was founded by cellist Shibelman (1890 – 1968), violinist Goldschtein, and pianist Ms. Dillon, and was named after the renowned Russian musician and director of the Saint Petersburg Conservatory, Glazunov (1865 – 1936). The school followed the curriculum of the Russian Imperial Conservatory and quickly became a hub for music educators. It offered courses in piano, violin, cello, and music theory. The faculty comprised a group of highly qualified

music educators, including cellists N. Shibelman (1890 – 1968), N.M. Ulishtein, and C.N. Stubin. Professor Shibelman also established a 12-person chamber music ensemble, consisting mainly of faculty members with a few students, to introduce Russian chamber music to China.

On October 20, 1927, Harbin's third professional music school was established, a music training institution co-founded with the church. The founder, Baranova (b. 1900 – d. 1980), was a graduate of the Kiev Conservatory. The school primarily enrolled expatriates, though a small number of Chinese students were also admitted. The cello department was mainly led by Pogogin (1912 – 1987), a renowned Russian expatriate cellist and music educator in Harbin.

Pogogin was born in Harbin and studied cello under Professor Gistekin (1870 – 1938) at the first music school in the city. After completing his studies, Pogogin became the principal cellist of the Harbin Symphony Orchestra, a position that solidified his reputation as a performer. In addition to his performance career, Pogogin made significant contributions to music education in Harbin. He taught at the Harbin Russian Higher Music School, where he educated both Russian expatriates and an increasing number of Chinese students. His dedication to teaching and the impact he had on his students made him a pivotal figure in the development of cello performance in the region. Many of his students went on to become prominent musicians in Harbin, Heilongjiang, and across China.

Between 1927 and 1937, the third music school in Harbin produced over 3,700 students, with approximately 65 cello students, making up about 5% of the total student body. Many graduates of the Harbin expatriate music schools went on to work in the Harbin Symphony Orchestra, pursuing professional careers as musicians. Notable Russian expatriate cellists who performed in the cello section of the orchestra included Pogogin, Bostrem (1900 –1985), and Uspensky (1880 –1950).

From the establishment of the first three music schools, it is evident that the true popularization of the cello in Harbin, and the Northeast region of China, began in the early years of the People's Republic of China. It was these early Russian

expatriate artists who brought their extensive performance and teaching experience to China, passing on their knowledge to local musical talent. The work and lives of Russian expatriate cellists in Harbin greatly accelerated the development of the cello profession in the region. Through widespread artistic activities, the establishment of schools, and the formalization of teaching methods, they cultivated the first generation of Chinese cellists in Harbin. These musicians inherited and advanced the professional teaching methods and high-level artistic standards of the Russian expatriate cellists, laying a valuable foundation for the development of cello education in Harbin and facilitating the spread and growth of cello artistry across China.

1.2.3 Early Native Chinese Cellists

In the development of cello art in China, early native Chinese cellists played a foundational and pioneering role. With profound professional expertise and a broad artistic vision, they skillfully integrated elements of traditional Chinese music into Western cello performance techniques, thereby forging a uniquely Chinese path in the evolution of cello art. These early cellists were not only trailblazers in introducing and promoting the cello in China but also active agents in the cultural exchange and integration between Chinese and Western musical traditions. Their contributions have had a lasting and significant impact on the long-term development of cello music in China. The following is an overview of the major early Chinese cellists and their key contributions to the development of cello music in China:

Zhang Zhenfu (1905–1948), a graduate of the conservatory's inaugural cello class under Russian professor Ivan Shevtzoff, emerged as a seminal figure among China's first generation of professional cellists. He served as principal cellist in several major ensembles, including the Central Training Corps Orchestra, the China Symphony Orchestra, and the Yan'an Central Orchestra. Zhang contributed significantly to the early development of the Chinese cello repertoire through his arrangements and compositions, many of which were based on Shaanxi folk melodies and Northeast yangge dance tunes, thereby pioneering the localization of cello music in China.

During the Anti-Japanese War, Zhang taught at the Lu Xun Academy of Arts in Yan'an, where he trained numerous violinists and cellists for the liberated regions. A landmark moment occurred in January 1942, when the academy staged a "Grand Concert"—a formal, academically styled event acclaimed as "an unprecedented spectacle in Yan'an's musical history." Dressed in a tailcoat, Zhang performed canonical Western cello works such as *Hungarian Rhapsody* and *Fantasia*, delivering the first Western-style classical cello recital in Yan'an with piano accompaniment. This performance not only demonstrated a high level of artistic professionalism but also symbolized the cultural acceptance of Western classical music within the revolutionary base.

Beyond performance and education, Zhang was also a prolific writer on Western music theory and practice, contributing articles to various journals. Notably, he was a pioneer in musical instrument craftsmanship. Despite the material limitations of Yan'an, he founded and directed the Yan'an Musical Instrument Factory, becoming the first professional musician in Chinese history to engage in the systematic production of Western instruments. Skilled in the construction of violins and cellos, Zhang produced instruments that were regularly used in orchestral performances, leaving a lasting impact on the musical life of the revolutionary period.

Wang Liansan (1926–1986), a native of Qingliu County, Fujian Province, was a professor at the Central Conservatory of Music and is recognized as one of the founding figures of cello education in China, as well as a pioneer in the Sinicization of cello performance. Passionate about music from a young age, Wang studied under the German cellist Professor Manfred Mänzcke, completing a five-year conservatory program in just three years and graduating as one of the top students in the cello department.

In the 1940s, he served in various roles across the Chinese-speaking world: as a teaching assistant at the National Fujian Academy of Music, a lecturer at Taiwan Normal University, principal cellist of the Taiwan Symphony Orchestra, music director at a Hong Kong film studio, and cello soloist at Radio Hong Kong. In 1950,

responding to the call of the newly founded People's Republic of China, he gave up a well-compensated career abroad and returned to the mainland. He first joined the Central Academy of Drama as a performer, composer, and educator, and in 1954 was appointed to the Central Conservatory of Music, where he devoted himself to cello teaching and composition. Over the years, he trained a large number of orchestral performers and educators, and authored a substantial body of instructional materials and original compositions.

Wang's creative achievements were particularly notable. Witnessing the dominance of Western repertoire in many Chinese performance groups, he was driven by a strong sense of national pride to compose works with distinctly Chinese characteristics. One such piece was *Picking Tea Melody* (*Cai Cha Yao*), inspired by the folk traditions of his native Fujian. Composed in 1952, it was the first Chinese work written for solo cello with orchestral accompaniment. Its premiere at the Beijing Theater was warmly received and praised by Premier Zhou Enlai. Japanese music critic Masaaki Niwa lauded it in the *Yomiuri Shimbun* as an outstanding work. The piece later gained international exposure in the United States, Germany, Switzerland, Japan, and Belgium, and was incorporated into the required repertoire at Chinese conservatories.

Later, drawing from his experiences in Hong Kong and Taiwan, Wang composed the cello suite *Stormy Childhood*, which portrayed touching scenes of working children, including pieces such as *The Newspaper Boy*, *The Shoeshine Kid*, *Blind Girl*, and *The Child Laborers*. His 15 *Cello Etudes* explored new ground in ethnicized performance techniques, and works like *Ode to Pioneering* and *The Most Beautiful Scenery Is My Motherland* reflected the spirit of national development.

Wang Liansan was committed to embedding Chinese cultural identity into cello performance, composition, and education, thereby playing a key role in the Sinicization of the instrument. His works—including *Picking Tea Melody*, *Stormy Childhood*, and *Reminiscence*—remain widely performed classics that effectively "clothed the Western cello in Chinese garb," charting a path for future generations of Chinese cellists.

In the field of pedagogy, Wang authored 22 published works, including Cello Teaching Repertoire, Chinese Cello Method, Caprice Etudes, and Youth Concerto. His works were performed in dedicated concerts across Beijing and many other Chinese cities. On May 18, 1981, the China Musicians' Association's Composition and Performance Committees, together with the Central Conservatory of Music, jointly organized the Wang Liansan Cello Works Concert—the first concert in China exclusively featuring original Chinese cello compositions, generating significant interest and discussion in the musical community. On June 26, 1986, another special concert titled The Cello Works of the Renowned Cellist Wang Liansan was co-hosted by the Central Conservatory of Music, the Performance Committee of the China Musicians' Association, and its Cello Society.Wang Liansan made invaluable contributions to the integration of Western and Chinese compositional techniques and to the development of a uniquely Chinese approach to cello performance and creation.

Situ Zhiwen (1933–2020), Born into a musical family in 1933, Situ Zhiwen studied at the Shanghai National Conservatory (now the Shanghai Conservatory of Music) under Russian cello pedagogue Ivan Shevtzoff. While systematically acquiring Western performance techniques, she also engaged deeply with traditional Chinese music, particularly Jiangnan sizhu, laying the foundation for her lifelong artistic approach centered on East–West fusion.

In the 1950s, she pursued further studies at the Moscow Conservatory under the renowned cellist and pedagogue Mstislav Rostropovich (1927–2007), where she integrated the expressive depth of Chinese musical aesthetics with the technical rigor of the Russian cello school to cultivate a distinctive and innovative performance style. Upon returning to China, she introduced Soviet academic methodologies into Chinese cello pedagogy. In the 1980s, she played a pivotal role in introducing Japan's Suzuki Method to Chinese cello education, thereby bridging Chinese string instruction with international pedagogical standards and contributing to the modernization of post-reform music education in China.

At the 1988 World Cello Congress, Situ Zhiwen gave a landmark performance of *River Sorrow*, a Chinese cello work adapted from a traditional *erhu* piece. The premiere attracted significant attention from international cellists and challenged prevailing Western perceptions of Chinese cello music. Through hand-copied scores and personal advocacy, the piece became one of the first Chinese cello compositions to be widely performed by Western musicians.

Rooted in the conservatory tradition of emphasizing both Chinese and Western musical heritages, Situ pioneered techniques such as using the cello to emulate *erhu* glissandi and vibrato, endowing the Western instrument with a distinctly Chinese expressive voice. Her localized performance model profoundly influenced the compositional direction of Chinese cello music in the generations that followed.

1.2.4 Representative Early Compositions in the Chinese Cello Repertoire

The formative period of Chinese cello composition was primarily concentrated in the first half of the 20th century, closely tied to the introduction of Western musical culture and the pioneering efforts of local musicians. Creative practices during this era reflected the intersection and integration of Chinese and Western musical traditions, marking an initial attempt by Chinese musicians to localize Western instruments. At this early stage of development, cellists began actively exploring how to use the cello—a Western instrument—as a medium to convey the depth and richness of Chinese cultural expression. It was during this time that the first domestically composed cello works began to emerge.

A. Xiao Youmei and Autumn Thoughts (1934)

Xiao Youmei(1884-1940) was a pioneering figure in modern Chinese music, known as an influential music educator, theorist, and composer. He pursued his studies at Tokyo Imperial University, the Tokyo Music School, and later at the Leipzig Conservatory in Germany, where he earned a doctoral degree. His time in Leipzig deeply shaped his compositional style, with his works from this period reflecting the prevailing musical currents in Europe from the late 19th to early 20th centuries.

As an educator, Xiao advocated for the integration of Western compositional techniques with Chinese musical traditions. While he introduced Western compositional principles to his students, he strongly emphasized the importance of preserving and learning from native Chinese music. He rejected wholesale Westernization of music education, insisting that the ultimate goal of musical training was to teach students how to express spirit, thought, and emotion through appropriate forms—grounded in traditional folk material. He even asserted that "music composed by Chinese people must have Chinese flavor."

Xiao's early educational philosophy laid the foundation for his efforts to promote Chinese national culture through music. His cello work *Autumn Thoughts* (*Qiusi*) stands as one of the significant outcomes of his exploration into integrating Chinese musical identity within Western compositional frameworks.

B. He Luting and Lullaby (1934)

He Luting (1903-1999) was a significant composer and music theorist in modern Chinese music history. His 1934 composition *Lullaby*, originally written for piano, stands as a quintessential example of the integration of Chinese and Western musical cultures. The later arrangement for cello became an important practice in the early exploration of the localization of Chinese instrumental music. *Lullaby* was composed for the piano competition initiated by Alexander Tcherepnin in 1934, which sought to encourage the creation of piano works with distinct Chinese characteristics. He Luting's entry won an honorary second prize, directly addressing Tcherepnin's challenge to "express the soul of China through Western forms."

The composition employs the "mother-child" imagery as a metaphor for the national salvation theme during the War of Resistance. It combines the pentatonic scale with functional harmony, creating a creative blend of both Western and Chinese musical systems (such as the integration of pentatonic melodies with added sixth harmonies and the contrapuntal translation of Hunan Flower Drum opera rhythms). This fusion established an early model for "nationalized musical language." The work follows an ABA' three-part structure, incorporating elements of Chinese operatic logic

and folk song modes. The later cello version enhanced the work's nationalistic flavor through the use of glissando techniques, reinforcing the ethnic instrumental resonance. During the adaptation, the cello version also accentuates the linear progression of the bass voice and uses the rich tone of the cello's C-string to deepen the national modal feeling. Additionally, the original piano version's grace notes were replaced with glissandi portamento to more closely mimic the "sonic nuances" of Chinese instruments such as the guzheng.

The "pentatonic scale + functional harmony" model profoundly influenced Chinese instrumental composition paths post-1949. Although Western scholars have critiqued the superficiality of its ethnic symbols, the work's exploration of melody localization, harmonic development, and cultural identity remains a dual exemplar of both technical experimentation and cultural self-consciousness in the modernization of Chinese music. As the first instrumental lullaby in China, *Lullaby* broke the Western tradition that confined this genre to vocal forms. Its "pentatonic scale + functional harmony" formula became the standardized approach for nationalized piano and instrumental compositions in post-1949 China.

The composition of *Lullaby* marked the beginning of Chinese composers asserting a subjectively conscious use of Western musical forms. Its significance lies not only in the technical fusion of Eastern and Western elements but also in the deep cultural intent embedded in its musical narrative. Despite historical limitations, the work's exploration of melodic and harmonic localization provided methodological insights for subsequent Chinese instrumental compositions, with its influence permeating the 20th-century process of Chinese musical modernization.

1.3 From AD 1749 to 1979: The Period of National Integration in Chinese Cello

After the founding of the People's Republic of China, art institutions and specialized programs across the country, such as the Central Conservatory of Music and the Shanghai Conservatory of Music, were established, leading to the gradual rise of cello education. This development nurtured a large number of cellists and composers, providing a solid talent foundation for the creation of cello works. As a

result, the composition of cello music with national characteristics became possible. Music professionals realized the importance of inheriting and promoting national culture, and actively explored ways to integrate the cello, a Western instrument, with Chinese traditional culture, in order to better adapt to the development of Chinese music and meet the public's demand for music with national features. Between 1949 and 1978, Chinese cello art underwent a government-driven "nationalization reform." Although the political environment of this period placed limitations on musical creation, significant breakthroughs were achieved through two main efforts: on the one hand, a large number of traditional folk songs were adapted into cello works, which facilitated the birth of many original national compositions; On the other hand, during the Cultural Revolution, the use of the cello in model operas allowed this Western instrument to "take root and sprout" in China, transforming it into a musical vehicle capable of telling Chinese stories.

Though the creative methods of the time were relatively simple, the accumulated experience in adaptation and the development of nationalized performance techniques laid the groundwork for the creation of classic works after the reform and opening up. It can be said that this unique period established the cultural identity of Chinese cello art and served as an important transitional phase for the fusion of traditional and modern music.

1.3.1 National cello works

The first category of national original cello works consists of compositions where composers drew inspiration from the rich resources of ethnic music, creating masterpieces with a strong national flavor. These works feature distinct themes and sincere emotional expression, captivating performers and audiences alike with their unique artistic charm, making them popular choices on the music stage of the time. Not only do these pieces showcase prominent national characteristics in terms of melody, rhythm, and harmony, but they also innovate in terms of performance techniques, skillfully combining the playing methods of traditional Chinese instruments with the expressive capabilities of the cello. This fusion expanded the expressive range of the

cello, infusing this Western instrument with the spirit of Chinese culture. When performed, these works evoke deep emotional responses, resonating with audiences and allowing them to experience the profound and unique charm of Chinese culture while enjoying the music. As such, these compositions became important carriers for the inheritance and promotion of national culture. The following image presents representative original cello works from this period:

Table 1 National Original Cello Works

Notice of the seco	Title of the	Oraștian Tima of	mayaia alamaanta	Taabaiausa	Music
National theme	Title of the	Creation Time of	music elements	Techniques	Music
	Work	the Work	MEL	breakthrough	characteristics
Kazakh	Romanza	1958	The Kazakh folk	Simulated	Deep melody on
	100		song	performance of the	the G string, in
	1 6			Dombra, artificial	dialogue with high
	: 1			harmonics	harmonics
Han Ethnicity	Concerto	1959	Northern	Double stop	The symphonic
	for the	$A + \Box$	Chinese Folk	tremolo, simulating	integration of war
	Beacon		Songs	an alarm sound	narrative and folk
	Fire	S. Therese			song motifs
Mongolian	Prairie	1963	Mongolian Chaol	Using harmonics to	Otherworldly
Ethnicity	Dawn		Music	simulate the	timbres depicting
				performance style	the sunrise on the
				of the horsehead	grassland
				fiddle	
Kazakh	The Song	1963	Xinjiang Arken	Using tremolo	Complex rhythms
	of Saliha		plays and sings	bowing to imitate	representing the
				the sweeping strum	movement of
				of the Rebab	nomadic
					migration

Table 1 (Continued)

National theme	Title of the	Creation Time of	music elements	Techniques	Music
	Work	the Work		breakthrough	characteristics
Mongolian	The Song	1964	Mongolian short	Left-hand plucking	Joyful dance style
Ethnicity	of the		tune folk songs	to imitate the	with alternating
	Herdsmen			plucking rhythm	compound meters
Llan Ethnicity	Ode to the	1965	The theme of	Continuous	Marab atula with a
Han Ethnicity	Ode to the	1905	The theme of	Continuous	March style with a
	Red Flag		revolutionary	spiccato to imitate	powerful
			songs	the snare drum	presence in the
			VIEL .	rhythm	lower register
Tibetan	Spring	1976	Tibetan heap	Bow-hair striking	The ethereal and
Ethnicity	Dawn in		harmonic dance	the stick to simulate	fervent
	Snow			plucked music	atmosphere of
	Mountain			7:1	high-altitude
	: 5			2:	regions

The second category consists of cello arrangements adapted from folk music. These works successfully transform traditional folk music into cello-based compositions while preserving the original artistic essence and ethnic characteristics. The arrangers begin by thoroughly understanding the artistic connotations and ethnic style of the original folk music, selecting pieces that are suitable for cello performance. During the adaptation process, the melody, rhythm, and harmony are skillfully adjusted and reworked to suit the cello's range, tone, and performance characteristics. The wide range and deep tone of the cello significantly enhance the artistic expressiveness of the adapted piece. Furthermore, the integration of techniques from traditional Chinese instruments—such as the tremolo and glissando of the horsehead fiddle (ma tou qin) and the plucking techniques of the pipa—are incorporated into the cello performance. In summary, cello arrangements adapted from folk music not only contribute to the preservation and promotion of China's excellent traditional culture but also foster the

development of cello art in China, enriching both the technical repertoire and performance techniques of the cello. The following are representative examples of such adapted works.

Table 2 Cello works adapted from folk music

National theme	Title of the	Creation	Adaptation	Techniques	Music
	Work	Time of the	Sources	breakthrough	characteristics
		Work			
Han Ethnicity	The Moon	1956	Jiangnan	Compound	Dialogue
	Reflected		Folk Music	vibrato to	between
	in Erquan	131	1817	imitate the	pentatonic scale
	400	THE RESERVE	6	glissando of	melodies and
	. 2			the erhu	piano textures
Mongolian	Gada	1958	Mongolian	Long bow	Epic narrative,
Ethnicity	Meilin		Narrative	staccato to	deep and solemn
	• 3	\perp	Songs	imitate the	bass
	· TIF		$\rightarrow \rightarrow A$	long tune of	
				the horsehead	
		2		fiddle	
Xinjiang Uighur	Xinjiang	1961	Uighur	Fast spiccato	dynamic
	Rhapsody		Kham	to simulate the	contrasts
			Music	rhythm of	between Central
				hand drums	Asian motifs and
					symphonic
					elements
Han Ethnicity	River	1962	Liaoning	Pressed	harmonic
	Waters		Drum Music	vibrato to	overtones
				mimic the	representing
				wailing tone of	Chinese tragic
				folk mourning	aesthetics

Table 2 (Continued)

National theme	Title of the	Creation	Adaptation	Techniques	Music
	Work	Time of the	Sources	breakthrough	characteristics
		Work			
Yi ethnic group	Axi Dance	1972	Yi Ethnic	Artificial	5/8 time
			Folk	harmonics to	signature dance
			Dances	imitate the	rhythm
				tone color of	
				the Yueqin	

1.3.2 The cello in model operas.

Model operas were a revolutionary genre of Chinese opera promoted by the government. These operas were closely aligned with political ideologies, often depicting heroic tales and promoting socialist values. During the Cultural Revolution (1966-1976), China's political, economic, and cultural sectors were greatly impacted, and the development of cello art, while subject to numerous restrictions, also saw some new characteristics and changes during this unique historical period.

During this time, the cello was integrated into the orchestral arrangements of model operas. Through this integration, the cello became part of the musical vocabulary of Chinese operatic performance, with its expressive capabilities adapted to suit the narrative needs of the time. Although originally a Western instrument, the cello was used to enhance the emotional depth and grandeur of the music, helping convey revolutionary spirit and Chinese themes through a Western instrumental tradition. This period was crucial in the process of "indigenizing" Western instruments, as the cello was no longer seen as an alien element, but as a legitimate tool for expressing Chinese cultural and ideological themes.

In the Cultural Revolution, artistic creation had to be closely tied to politics, emphasizing "serving political agendas," and cello works were no exception. The cello compositions of this period were primarily focused on revolutionary themes,

such as reflecting revolutionary struggles and praising leaders, with significant limitations on creative freedom. The use of the cello in model operas became an important phenomenon in the development of modern Chinese operatic music. As a product of China's special historical period, model operas incorporated Western orchestral elements into the traditional opera framework, forming a unique "East-West fusion" style. The cello, as a Western string instrument, was innovatively introduced into the accompaniment of opera during this time, playing several significant roles. This can be seen from the following aspects:

A. Emotional Expression and Tone Utilization of the Cello in Model Operas

In terms of emotional expression in model operas, the cello played a unique role. In passages that were tragic, solemn, or lyrical, the cello enhanced the portrayal of inner emotions through long tones, glissandi, and expressive melodic lines. For example, in the classic model opera *The Red Lantern*, during the scene where the hero delivers a soliloquy before martyrdom, the cello's deep and emotionally resonant tone intertwined with the string ensemble, together creating a profound and sorrowful atmosphere.

B. Innovative Arrangement and East-West Fusion in the Orchestral Setup

Model operas underwent bold innovations in orchestration, forming a unique East-West fusion model. Taking operas such as *Taking Tiger Mountain by Strategy*, *Sha Jia Bang*, and *The Red Women's Army* as examples, the cello, as an important part of the string section, not only fulfilled a harmonic role but also actively participated in the interpretation of the main melodies. The cello was often used to repeat or vary key musical themes, and in scenes involving antagonist characters or tense moments, the cello's low-range, oppressive tones were cleverly employed to heighten dramatic conflict.

C. The Role of the Cello in Character Development

The cello also had a distinctive role in shaping character images. In the arias of heroic characters, the cello often provided a steady rhythm and broad melodic lines to underscore the heroism. When depicting antagonist characters, the cello's low-pitched tremolos or glissandi were used to express their treacherous and sinister nature, breaking the traditional limitations of Chinese opera, which usually relied on gongs, drums, and vocal lines to shape characters.

In conclusion, the use of the cello in model operas reflects the characteristics of musical innovation during this unique historical period. It blends Eastern and Western musical elements and is influenced by the political environment, representing an artistic practice under the policy of "literature and art serving politics." Its inclusion not only enriched the expressive power of operatic music but also made significant contributions to the symphonic and instrumental development of Chinese opera music.

1.4 From AD 1979 to 2000: The Period of Comprehensive Artistic Development

In the development of Chinese cello art after the reform and opening-up, the revival of international cultural exchanges became a key driving force for the mutual flow of talent and the collision of artistic ideas. With the Ministry of Culture of China promulgating policies to revitalize arts education in 1979, the Central Conservatory of Music and the Shanghai Conservatory of Music took the lead in updating the cello curriculum. Native cello educators such as Wang Yin and Situ Zhiwen formulated new teaching syllabi and established technical standards, laying the institutional foundation for the development of the discipline with an emphasis on both national traditions and technical excellence.

International cultural exchanges, through various channels such as competitions, music festivals, and educational collaborations, facilitated the transformation of Chinese cello art from "technical introduction" to "value export." This period marked a fundamental shift in Chinese cello art, from technical transplantation to

cultural self-awareness. The publication of Selected Chinese Cello Works in 1985 established a "technical-cultural" dual analysis framework, while the 1996 Sino-Western String Instrument Comparative Symposium introduced musicological research methods to explore the impact of bridge modifications on the nationalization of tone.

This interdisciplinary trend pushed cello art beyond a singular focus on nationalization, resulting in a creative landscape where cultural roots, avant-garde experimentation, and neo-romanticism coexisted. With platforms such as the Beijing International Music Festival emerging, cello works gradually shed their political propaganda function, transforming into cultural symbols with independent aesthetic value. The evaluation criteria shifted from ideological alignment to innovation in artistic form. This developmental trajectory not only reshaped the artistic expressive dimensions of the instrument but also reflected the complex process of constructing cultural modernity in early reform-era China.

After the end of the Cultural Revolution, with the restoration and development of cello music education, music conservatories increasingly valued cello academic exchanges. During this period, China's cello art developed steadily, and creative work entered a mature phase. Cello art at this time showed significant advancements in appreciativeness, artistry, and ideological content. Creators began to break free from constraints and produce innovative cello works, ushering in a new era for Chinese cello composition. Cello works after China's reform and opening-up had three main characteristics:

Diverse Themes: Compositions were inspired by a broad range of sources, including traditional myths, historical legends, and the composers' personal experiences and emotions. For instance, Memories by Ma Mauxuan is a deeply personal piece that reflects on the composer's grandmother, while Symphony No. 8 "Quest" by Zhu Jianer utilizes percussion and cello to convey the complex inner world of a solitary explorer.

Sophisticated Structure: The works displayed a higher degree of structural sophistication, closely aligned with their thematic content. They exhibited balance, completeness, and symmetry, reflecting the composers' logical and methodical

approach to the internal structure of their compositions. For example, Lin Chong, a cello work by Fang Dongqing, is structured into three sections: "Walking in Snow," "Slaughter," and "Night Flight." Each section uses distinct cello melodies, pitches, and rhythms to deepen the narrative and enrich the overall performance.

Strong National Flavor: As the process of integrating the cello into Chinese music progressed, contemporary cello compositions increasingly incorporated elements of traditional Chinese music. This infusion of national musical characteristics not only enhanced the appeal of the works to domestic audiences but also fostered a sense of familiarity and cultural connection.

1.4.1 International Achievements and the Internationalization of the Education System

Wang Jian, as the first internationally recognized cellist from China, closely linked his growth trajectory to the cultural openness policies of the early reform period. In 1979, he appeared in the Oscar-winning documentary *From Mao to Mozart*, becoming a symbol of China's musical talent in the Western world. Subsequently, he pursued further studies at Yale University and became the first Chinese cellist to sign with Deutsche Grammophon (DG). He also collaborated with renowned musical figures such as Claudio Abbado and the Berlin Philharmonic. His success marked the integration of Chinese cello education into the international evaluation system, and his recordings of *Bach Cello Suites* and *Baroque Album* set global standards for both technical proficiency and artistic expression.

Qin Liwei is one of China's most celebrated cellists and educators, recognized for his remarkable achievements both in international competitions and in the development of cello education. He first gained global attention in 1998 when he won the silver medal at the prestigious 11th Tchaikovsky International Music Competition, setting a historic record for Chinese competitors in the string category. His performance of Shostakovich's *Cello Concerto in D Minor* was particularly praised for its precision and emotional depth.

Qin's competitive success continued throughout the 1990s and early 2000s. From 1994 to 2001, he won 12 top international awards, including gold medals at the Naumburg International Cello Competition (1997) and the Crop International Cello Competition (2000). His performances in competitions were characterized by both exceptional technical skill and deep musicality, as demonstrated by his interpretation of Dvo**r** ak's *B Minor Cello Concerto*, which was described by *Gramophone Magazine* as embodying a unique blend of "Slavic soul and Eastern poeticism."

In addition to his success in competitions, Qin Liwei has made significant contributions to music education. He has served as a professor at the Royal Northern College of Music in the UK since 2005 and as a visiting professor at the Shanghai Conservatory of Music since 2010. In his teaching, Qin introduced a "European Chamber Music Teaching Matrix," which restructured the curriculum to emphasize a balance between solo techniques, chamber music, and orchestra excerpts. His teaching has produced several highly successful students, including Su Zhen (Gold Medalist at the 2015 ARD International Music Competition) and Mo Mo (finalist at the 2019 Queen Elizabeth Competition).

Under his guidance, the Shanghai Conservatory of Music String Quartet achieved a significant milestone in 2018, becoming the first Chinese ensemble to reach the final of the Munich International Chamber Music Competition.

Qin Liwei's contributions to both the performance and teaching of the cello have had a lasting impact on the development of cello music in China, and he remains an influential figure in both national and international musical circles.

1.4.2 Global Uniqueness of the Professional Setting and Educational System

Since its establishment of the Violin Making Research Center in 1988, the Central Conservatory of Music has gradually developed the world's only "10-year system teaching framework" for violin making. This system includes two years of foundational training at the affiliated middle school, four years of specialized undergraduate study, and four years of in-depth graduate research. This structure not

only represents an innovation in traditional music education but also reflects a profound understanding of the integration of violin-making techniques and artistry. Through this systematic approach, students acquire a comprehensive knowledge and skill set across interdisciplinary fields, thus laying a solid foundation for their future professional careers.

In terms of curriculum content, the violin-making program at the Central Conservatory of Music integrates multiple disciplines, including violin-making craftsmanship, wood science, and music acoustics. Students are not only required to master traditional violin-making techniques but also to study modern material science and acoustics principles, ensuring they can innovate and meet challenges in the ever-evolving musical and technological landscape. For instance, the wood science courses allow students to gain a deep understanding of the properties of various woods and how the careful selection and treatment of materials can influence the sound quality and playing experience of the instrument. Meanwhile, the study of music acoustics helps students comprehend the acoustic properties of violins, their vibration modes, and their relationship to performance techniques.

Additionally, the Central Conservatory of Music has collaborated with top-tier research institutions, such as the Chinese Academy of Sciences, to complete national-level research projects, including studies like "Research on the Relationship Between Violin Making and Acoustic Quality's Vibrational Modalities." These research outcomes not only promote the technological advancement of violin making but also provide scientific support for innovations in musical artistry. Through such collaborations, students are involved in cutting-edge technological research, enhancing both their theoretical knowledge and practical skills.

As of 2024, six music academies in China have established violin-making programs, forming an initial educational network. Since its inception at the Central Conservatory of Music, over 200 professionals have been trained, with approximately 30% of graduates working in instrument workshops of top-tier orchestras in Europe and North America. The exceptional achievements of these scholars and

skilled craftsmen in the global music community signify that Chinese violin-making education has reached an international level and garnered worldwide recognition.

Through this globally unique professional setting and educational system, China's violin-making education has not only elevated the country's technical expertise in the field of music but has also contributed outstanding professionals and innovative achievements to the global music art scene.

1.5 The Diversification of Cello Art in China Since 2000

Since the turn of the 21st century, the wave of information explosion has had a profound and multifaceted impact on global culture. This rapid spread of information has accelerated the trend of cultural diversification, deeply affecting all forms of culture, including music. As a vital cultural component, music, and specifically the art of the cello, has undergone significant transformations. The reorganization of musical elements has become a widespread phenomenon, with cello art gradually shifting toward greater diversity. The following explores these developments in the context of China's evolving cello landscape since 2000.

1. Rapid Dissemination of Information

The proliferation of the internet, mobile devices, and other digital media has exponentially increased the speed at which information is shared. Musical works, news, and trends can now be instantly distributed across the globe. Diverse musical styles and elements from different geographical regions and cultural backgrounds are rapidly becoming accessible to people worldwide. For instance, online music platforms enable users to explore a vast array of music, from African drumming to Nordic folk songs, from Latin American samba to Asian classical music, significantly expanding global musical horizons.

The swift circulation of information has broken down geographic and cultural barriers, fostering exchange and fusion between different cultures. As people become more open and receptive to foreign cultures, various cultural elements have collided, borrowed from one another, and enriched musical creation. This cross-cultural interaction has led to the emergence of unique music styles, such as the blending of

Western pop music with Eastern traditional instruments. In China, for instance, artists have integrated instruments like the guzheng (Chinese zither), erhu (Chinese two-stringed fiddle), and sitar (Indian string instrument) into contemporary music, resulting in innovative fusion genres.

In recent years, platforms like Youku and Bilibili have hosted online cello tutorials, performances, and masterclasses. These platforms have provided musicians with an accessible space for sharing their expertise and have contributed to a more diversified, accessible learning environment for aspiring cellists throughout China. For example, the online courses offered by Cello China and China Cello Academy have helped raise the profile of cello education nationwide, providing students from across China with direct access to expert guidance.

2. Reorganization of Musical Elements in Chinese Cello Art

Fusion of Traditional Chinese and Western Styles: In 2012, renowned cellist Qin Liwei, one of China's foremost cellists, performed the concerto "Journey to the West" with the China National Symphony Orchestra, which fused traditional Chinese melodies with Western orchestral arrangements. This performance exemplifies the growing fusion of Eastern and Western musical traditions, a trend that has continued throughout the 21st century in China.

Incorporation of Popular and Electronic Music into Classical Performances: In 2015, cellist Jiafeng Chen performed a unique version of Coldplay's "Viva la Vida" at a popular concert series, integrating classical cello with pop and electronic elements. This performance exemplified how traditional instruments like the cello could be adapted to more contemporary musical genres, an increasing trend among younger Chinese musicians.

The diversification of cello art in China since 2000 is not only a response to the information explosion and cultural globalization but also a result of the active engagement of Chinese musicians with global trends, cross-cultural collaborations, and evolving educational methodologies. The collaborations between traditional Chinese instruments and Western influences, as well as the increasing

presence of Chinese cello artists in international performance spaces, mark a period of dynamic development in the country's classical music scene. These events, along with the rise of online platforms for education and performance, highlight the ongoing transformation of cello art in China, making it increasingly inclusive and internationally recognized.

Conclusion

The evolutionary trajectory of cello art in China profoundly reflects the dynamic process of "cultural contact, conflict, adaptation, and fusion" as outlined in cultural adaptation theory. This process not only highlights the adaptive transformation of a Western instrument within a heterogeneous cultural context but also reveals the active selection and creative transformation of foreign elements by the indigenous culture. The developmental trajectory of cello art in China—from its initial introduction, when it was confined to court and church settings, to its later promotion by foreign expatriates, and eventually to its current diversified development—has always been intricately linked to the country's social and cultural context. Throughout the five stages outlined above, cello art has coexisted and integrated with Chinese society and culture, increasingly reflecting Chinese cultural characteristics in areas such as musical composition, aesthetic evolution, and the establishment of educational models. In essence, the creative styles, performance practices, and content of cello works in various periods have served as dynamic reflections of China's political and cultural conditions at each respective time. Furthermore, the humanistic environment and aesthetic viewpoints of each era have left indelible marks on the art of the cello, conveyed through the medium of music. A comprehensive examination and analysis of the cello's development across these stages not only reveals the patterns of its artistic evolution but also underscores the importance of situating this evolution within the broader societal and cultural context. This approach is essential for achieving a deeper and more objective understanding of the interactive relationship between the instrument, society, and the people.

2. The analysis of the application and influence of the cello in Chinese national orchestral music

After the establishment of the People's Republic of China, under the support of government policies, the system of professional national orchestras gradually improved. However, certain acoustic limitations of traditional Chinese instruments, such as the weakness of the bass section and insufficient timbre integration, became significant bottlenecks in the development of these ensembles. In this context, the Western cello, with its rich bass qualities, was systematically introduced into Chinese orchestras. Through improvements in instrument design and the localization of performance techniques, the cello successfully integrated into the national orchestra system, becoming a core component of the bass section.

The evolution of China's national orchestras represents a quintessential example of cross-cultural adaptation, aligning closely with the dynamic model of "integration-reconstruction" in Berry's cultural adaptation theory. From the establishment of the Datong Music Society by Zheng Jinwen in 1920 to the contemporary symphonic practices of modern national orchestras, this trajectory illustrates the complex interaction between foreign musical elements and the traditional Chinese cultural system. Examining this historical process not only involves functional optimization at the organological level but also entails a theoretical reconstruction of cross-cultural musical aesthetics. This dual significance encompasses both the construction of academic disciplines and the practice of artistic expression, contributing to a deeper understanding of the ongoing fusion between indigenous and foreign musical traditions.

As early as the first half of the 20th century, Chinese music scholars began exploring the bass section while simultaneously establishing national orchestras. In the 1920s, Zheng Jinwen (1872–1935) founded the "Datong Music Society," a folk music group. Zheng Jinwen set forth the principle for the society to "study both Chinese and Western music and achieve harmony." In terms of research methodology, Zheng advocated for "specialized study of Western music, while also focusing on the research and reform of Chinese music to ensure that Chinese and Western elements can

complement and support each other. Only in this way can we extract the essence and summarize the key points" (Chen, 2017).



Figure 2 Zheng Jinwen (1872–1935)

Source: Shanghai Oriental Musical Instrument Museum, photographer: ShaoQian Mo

Zheng Jinwen was not only a traditional instrumentalist and music educator but also a reformer of Chinese folk instruments. Although his initial goal was to revive ancient classical music, his practical explorations in instrument reform, ensemble arrangements, and repertoire composition embraced the concept of "Sino-Western integration." While maintaining the prominence of Chinese music, he incorporated elements of Western music, including notation, keyboard instruments, percussion instruments, vocal techniques, and compositional methods. By applying Western orchestration principles, he reformed traditional Chinese ensembles, leveraging the strengths of Western music to address the limitations of Chinese musical structures.

During the development of the ensemble, its scale expanded significantly. By examining the orchestra's composition at that time, it is evident that the number of musicians had surpassed thirty, with the four instrumental sections—wind, bowed strings, plucked strings, and percussion—taking shape. The "Datong Music Society" became the first influential national music ensemble in the 20th century. This period also

marked the growing attention to the arrangement of high-, mid-, and low-register instruments within the ensemble.



Figure 3 National Grand Music" by Shanghai Datong Music Society, 1933

Source: Shanghai Oriental Musical Instrument Museum, photographer: ShaoQian Mo

To establish a large-scale orchestra, Zheng Jinwen initiated a series of improvements and developments to traditional Chinese instruments. Among these, the newly designed bass bowed-string instrument, the "zhuangqin", was specifically created to strengthen the bass section. Resembling a pagoda in shape and equipped with four strings, it was a bass instrument inspired by the cello. Although the "zhuangqin" was neither widely adopted nor extensively promoted in the subsequent years, it reflects the early efforts of the Datong Music Society to collect and study foreign instruments, incorporating their structural principles to enhance the development of traditional Chinese instruments.

During the first half of the 20th century, influenced by Western musical culture, music scholars began to focus on the issue of the bass section in Chinese national orchestras. Efforts were made to develop traditional Chinese instruments capable of handling the bass parts, but these improved bass instruments still had significant limitations. Both their pitch range and volume proved inadequate to support ensemble

performances. In traditional Chinese music, which is primarily based on single-line melodies, there were no suitable bass instruments. This posed a particularly challenging issue in the development of modern Chinese national orchestras. To address the urgent problem of the absence of bass instruments in these ensembles, attention turned to Western instruments, specifically the cello. Thus, the cello began its journey of integration into Chinese national orchestras.

2.1 The Application of the Cello in Different Historical Stages of Traditional Orchestras

The dissemination and development of cello art in China have been intricately linked to the evolution of Chinese orchestral structures. Both have played pivotal roles in facilitating the integration of Western musical culture with traditional Chinese music. Consequently, an examination of the cello's role in the historical development of Chinese orchestras is of significant scholarly importance.

2.1.1 The Cello in Early Chinese Western Orchestras

Peking University Orchestra: Localization of Orchestral Structure and Autonomous Exploration

Founded in 1923, the Peking University Music Institute Orchestra (hereafter referred to as the "Peking University Orchestra") was the first Western orchestra in China to be formed and conducted by local musicians. Its predecessor was the orchestra established by Robert Hart, the Inspector General of Customs during the late Qing Dynasty, which was later reorganized and restructured by Xiao Youmei. This orchestra broke the monopoly of foreign musicians in the field and pioneered the independent development of modern orchestras in China. The orchestra initially consisted of 15 members, including two cellists, marking a significant step toward the systematic adoption of the Western orchestral model by Chinese musicians. In his teaching, Xiao Youmei emphasized the integration of "technical foundation with musical expressiveness," which laid the groundwork for the localization of training for instruments such as the cello.



Figure 4 Photograph of the Entire Beijing University Orchestra, November 1923

Source: Peking University Official Website. (n.d.). Retrieved from www.xsg.pku.edu.cn.

2. Harbin Symphony Orchestra: Russian Technical Transmission and "Localization" Experiments

The Harbin Symphony Orchestra, formerly known as the East China Railway Administration Symphony Orchestra established in 1908, became an important vessel for Russian expatriate music culture. The members of this orchestra promoted the systematization of cello techniques through a "orchestra + teaching" dual approach. For example, the Harbin Glazunov Music School (founded in 1925) incorporated works like Schroeder's Etudes and Popper's High-Grade Etudes to strengthen foundational techniques, focusing on the handling of the bass section, vibrato, and bowing control. In the 1930s, the orchestra experimented with integrating Chinese folk music elements into symphonic works, such as adapting *Erquan Yingyue* (The Moon Reflected in Erquan) for cello and orchestra. This provided an early example of the "Chinese expression" of the cello and influenced composers like Liu Zhuang in their cello concertos. This practice demonstrated the fusion tension between the Russian "singing" style and the Chinese traditional "tonal resonance" aesthetic.

3. Shanghai Municipal Council Orchestra: The German-Austrian School's Technical System and Institutionalized Education

The Shanghai Municipal Council Orchestra (the predecessor of the Shanghai Symphony Orchestra) was the first professional Western orchestra in China. Its German-Austrian technical system (such as precise bowing control and sectional balance) complemented the Russian style found in Harbin. Orchestra members such as Tilk and Shefov disseminated their technical skills through private lessons, forming a dual identity of "performer-teacher." After the establishment of the National Conservatory of Music in Shanghai in 1927 (now the Shanghai Conservatory of Music), Italian cellist Arrigo Foa (1891-1980) integrated his orchestral experience into teaching, emphasizing a balanced training model of "solo and ensemble," which helped drive the transition of cello education in China from an individualistic to a disciplinary approach. By the 1950s, the orchestra had completed its localization transformation, with all members being Chinese musicians, and its repertoire shifted towards Chinese music compositions, reflecting the adaptive reconstruction of instrument culture in the context of colonial modernity.



Figure 5 Three professors of National Conservatory of Music: Arrigo Foa, Boris Zakharoff and I. Shevtzoff

Source: Shanghai Symphony Orchestra Museum., photographer: ShaoQian Mo

4. The Practices of These Orchestras and the Theory of "Instrumental Culture Adaptation"

The practices of the aforementioned orchestras reflect Bruno Nettl's theory of "instrumental culture adaptation." While the technical aspects of the cello (such as bowing and vibrato) were not fundamentally altered, its cultural significance underwent a reconstruction within the Chinese context. "The earliest immigrant musicians aimed to preserve the musical traditions they knew before migration, but change proved inevitable" (Ha, 2022). Their technical systems and pedagogical models provided an institutional framework for the development of the cello in China, while Chinese musicians, through an 'appropriation-adaptation' strategy, transformed this foreign instrument into a vehicle for the modernization of national music, ultimately synthesizing a new musical culture in the local context.

2.2.2 Reform and Innovation of Chinese National Orchestras

Following the establishment of the People's Republic of China in 1949, the country's musical culture entered a comprehensive exploratory "pioneering phase." The state placed significant emphasis on the development of new ensemble forms. In 1951, the Ministry of Culture convened the National Cultural Troupe Work Conference, setting the goal of "gradually developing theater arts" and subsequently introducing a series of guiding cultural policies. Within this broader framework, China's modern traditional orchestras began a new phase of development, and the cello also found new applications within these ensembles.

Professional, standardized, and theater-oriented traditional orchestras were established in major cities such as Beijing and Shanghai. Notable examples included the Central National Song and Dance Ensemble Traditional Orchestra, the Central People's Broadcasting Station Traditional Orchestra, the Shanghai Traditional Orchestra, and the Jinan Qianwei Song and Dance Ensemble Traditional Orchestra. Additionally, regional traditional orchestras affiliated with local song and dance troupes in medium and small cities were also founded. These professional ensembles, taking the Central Broadcasting Traditional Orchestra as their model, gradually established and

refined a four-section structure comprising bowed strings, plucked strings, winds, and percussion.

Instrumental reform was prioritized as a central focus of musical work during this period, sparking widespread experimentation across the nation. Regional orchestras not only worked to improve existing instruments but also explored various approaches to developing suitable bass-register instruments.

During this time, the Jinan Qianwei Song and Dance Ensemble Traditional Orchestra became the first to introduce the Western cello into the bowed-string section as a substitute for traditional Chinese bass instruments. This marked the cello's debut in China's modern traditional orchestras, making it the first ensemble to adopt a mixed Chinese-Western instrumentation. This innovation was closely tied to the ensemble's background: originally established in 1950 as the Public Security Army Cultural Troupe, it was later merged into the Jinan Military Region Cultural Troupe in 1955 following strategic adjustments by the Central Military Commission. In the autumn of 1956, in response to calls for a national-style military ensemble, it was reorganized into a traditional orchestra based on a Western orchestral framework. Amid the nationwide instrument reform movement, the Qianwei Traditional Orchestra boldly experimented with mixed instrumentation, opening new possibilities for bass-register instruments in traditional ensembles. Their pioneering approach inspired other regional orchestras to recognize the cello's importance and adopt it accordingly.

The Gradual Integration of the Cello into Traditional Orchestras. Over time, the cello became increasingly embedded in traditional music performance, evolving into an indispensable component. This shift was driven both by musicians' appreciation for the cello's timbre and expressive capabilities and by the pursuit of diversified musical expression (Wang, 2020).

2.2 Reform of Low-Pitch Instruments

After the initial exploration phase, China's national orchestras matured, moving beyond their early stages of experimentation. During this period, these orchestras continued to refine their structures and instrumentation, vigorously advancing

instrumental reforms, and deeply exploring future development directions. The national orchestral music system as a whole began to develop systematically and thrive.

Under the influence of the "Great Leap Forward" campaign, the Chinese Musicians Association's National Music Committee held two instrument-reform seminars and exhibitions in Beijing between 1959 and 1961. The association also established specialized reform groups for different instruments, which made the reform process more systematic and professional. These groups significantly advanced the reform of national instruments, with a particular focus on plucked instruments, string instruments, and national low-pitch instruments, especially the latter. Various new types of national instruments emerged during this period, and national orchestras, which had previously used cellos as low-pitch instruments, gradually began to experiment with new, improved national low-pitch string instruments. Thus, in this era of promoting fine national culture and rising national sentiment, the cello, which had previously played the bass part in orchestras, was temporarily replaced by new national low-pitch instruments modeled after the cello.

Around the 1960s, national orchestras and instrument factories in cities such as Beijing and Shanghai collaborated to design and develop many new national low-pitch instruments. These instruments were briefly tested in various orchestras but ultimately failed to replace the cello. Most of these instrument reforms were based on a single family of instruments, with features of the cello incorporated into their design for improvement.

Cello-Inspired Reformed Traditional Bass Instruments

1.GEHU. The Gehu is a bass-range bowed string instrument developed in the 1950s by Chinese musician Yang Yushen at the Shanghai Conservatory of Music. It is characterized by a broad dynamic range and an extensive playable register, drawing inspiration from both the erhu and the cello. As China's first dedicated traditional bass instrument, the Gehu played a pivotal role in filling a crucial gap in ethnic orchestras and became the most widely adopted bass solution of its era.

Acoustic Features: The Gehu produces a tonal spectrum that is both bright and resonant, offering a distinctive yet clear sound. It is designed with a four-string configuration and features a fretboard, which is characteristic of bowed string instruments. The instrument's soundbox is positioned horizontally, a design choice that contributes to its unique acoustic properties. The Gehu utilizes a cello-style bow, which allows for both *arco* (bowed) and *pizzicato* (plucked) techniques, offering versatility in performance.

Evolutionary Stages:The Gehu evolved through several iterations, with the first model, the Type-58, being refined over time into the improved Type-79. These iterations reflect a continuous process of design optimization and tonal refinement. Each successive version aimed to enhance the instrument's playability and acoustic characteristics, demonstrating an ongoing effort to adapt it for use in orchestral settings, and particularly in the role of a bass instrument in Chinese traditional music.

Design Paradox: Despite its conception as a traditional Chinese bass instrument, the Gehu's development was deeply influenced by Western cello technology. The instrument's structural framework—spanning elements such as string tuning, sound production principles, and playing techniques—was largely based on the cello. However, this design was not without its limitations. Although the Gehu incorporated aspects of the cello's technology, it was unable to fully replicate the cello's rich tonal depth, complex timbre, acoustic projection, or ergonomic efficiency. These limitations hindered its ability to serve as a complete substitute for the cello in certain musical contexts, particularly in terms of tonal richness and expressive capabilities.

The Gehu, though an innovative attempt to create a Chinese bass instrument, highlights the complexities and challenges involved in adapting Western instruments to local traditions. Despite its limitations, the Gehu remains a significant achievement in the evolution of Chinese traditional music, contributing to the ongoing development of modern ethnic orchestras.



Figure 6 GeHu

Source: Shanghai Oriental Musical Instrument Museum, photographer: ShaoQian Mo

2. Bass Ruan. The bass ruan, a key member of the ruan family of instruments, plays a crucial role in China's 20th-century ethnic orchestral reform. The history of the ruan can be traced back to the Han dynasty's "pipa"-like instruments, but the modern version of the ruan family, including the bass ruan, was shaped in the 1950s. To meet the bass section requirements of Chinese national orchestras, reformers like Zhang Zirui of the Central Broadcasting National Orchestra made significant modifications. These included enlarging the resonator, lengthening the neck, and replacing silk strings with steel strings to improve volume and tonal stability (Qiao, 2003). The standard tuning of the bass ruan is C-G-D-A (fourth intervals), with a range from C2 to A4, filling the gap left by traditional plucked bass instruments in Chinese music (Wang, 2012).

The integration of the bass ruan into national orchestras marks a significant exploration of symphonic elements within Chinese ensembles. Unlike the double bass in Western orchestras, the bass ruan creates a distinct tonal contrast with bowed instruments such as the gehu, while providing essential bass support for the

harmonic structure. Its role within orchestras can be seen in three key functions: it serves as a foundational bass, reinforcing harmonic progressions by playing sustained broken chords or rhythmic patterns, such as in Peng Xiuwen's adapted *Spring Festival Overture*, where the bass ruan and gehu combine to create a complex bass texture. Additionally, the bass ruan is capable of carrying melodic lines, utilizing its rich, resonant tones to deliver thematic melodies, as demonstrated in the solo passages of Liu Wenjin's *Impressions of the Great Wall* (Third Movement). Furthermore, the instrument contributes to the creation of special sound effects, utilizing techniques like clapping and glissando to add dramatic intensity, as evidenced in the court scenes of Guo Wenjing's opera *The Night Banquet* (Li, 2008). Through these varied roles, the bass ruan has become an indispensable tool for enhancing both the harmonic depth and expressive range of Chinese orchestral music.

In the 21st century, the bass ruan has undergone significant breakthroughs in playing techniques and expressive capabilities, particularly within avant-garde compositions. One key development has been the adoption of extended techniques, drawing from Western plucked string instruments such as col legno and palm slapping, which have expanded the instrument's expressive range. For instance, in Dialogue with Nature by Qin Wenchen, the bass ruan employs body tapping to imitate natural sounds, further enhancing its versatility. The instrument has also undergone electrification, with the addition of pickups and effects processors, broadening its tonal possibilities. In Tan Dun's multimedia concerto Map, the bass ruan interacts with electronic soundscapes, creating a unique fusion of traditional and modern elements. Furthermore, the bass ruan has been used in cross-cultural recontextualization, as seen in Zhao Jiping's The Lonely Smoke over the Desert (Fourth Movement), where the instrument plays microtonally to mimic the Central Asian dombra, offering a contemporary reinterpretation of Silk Road musical idioms (Liang, 2016). These innovations reflect the bass ruan's growing adaptability and its ability to blend traditional sounds with modern techniques and global influences.

The history of the bass ruan reflects China's cultural choices in the modernization of its music: balancing the functional needs of the bass section in ethnic orchestras with the development of a unique tonal aesthetic in a globalized context. Its evolution from a "filling instrument" to an "independent expressive medium" offers a paradigmatic reference for the contemporary survival of traditional Chinese instruments. Future research can focus on the innovative performance paradigms involving digital technologies and the cultural identity reconstruction of the bass ruan within the global musical landscape.



Figure 7 Bass Ruan

Source: Beijing National Museum of China, photographer: ShaoQian Mo

3. The bass morin khuur: The bass morin khuur is a significant innovation in the modernization process of Chinese national orchestras, and its reform exemplifies the typical characteristics of traditional instrument reform in the mid-20th century. This instrument evolved from the traditional Mongolian morin khuur and was systematically modified to meet the bass section demands of new Chinese orchestral compositions. Notably, the reform process was consistently accompanied by a technical dialogue with the cello—borrowing its structural logic to address the standardization of the orchestra's

bass section, while also attempting to navigate cultural anxieties related to "Westernization" through an ethnic adaptation.

During the 1950s and 1960s, amid the wave of instrument reforms, the Central Broadcasting Chinese Orchestra spearheaded the development of the bass morin khuur to address the weak bass section in the national orchestra. The modification preserved the core structural features of the traditional morin khuur, such as the trapezoidal resonator and the horse-head scroll, while incorporating cello design influences. These included the addition of a fingerboard to standardize tuning and a four-string tuning system (C-G-D-A) aligning with the cello, as opposed to the traditional double-string fifth-tuning system of the morin khuur. This technical adaptation was intended to improve the instrument's compatibility with Western harmonic structures. Although the instrument retained the membrane-vibration sound production principle of the horse-tail string and the skin resonator (distinct from the cello's plate-vibration), its structural proportions and playing posture increasingly conformed to the industrial standards of the cello.

However, the promotion of the bass morin khuur encountered structural dilemmas. Its acoustic characteristics, too similar to those of the cello, blurred the cultural boundaries—while the four-string system extended the range, it weakened the microtonal ornamental techniques inherent in the traditional double-string playing style. The membrane resonance retained the desolate timbre of the Mongolian steppe, but the standardized fingerboard design suppressed the improvisational expression of glissando, which is central to traditional morin khuur performance. This "cellocization" sparked academic debate: proponents argued that it solved the problem of bass section compatibility between the national orchestra and Western symphony orchestras (e.g., balancing volume during concerto performances), while critics condemned it as falling into the "trap of technical convergence," reducing the instrument to an "Eastern cello with a horse-head decoration" (Li Yuanqing, 1962). Ultimately, in the value battle between "modernization" and "cultural authenticity," the instrument was gradually

replaced by alternatives (such as the gehu) that better balanced technical demands with cultural identity.

In the context of cross-cultural musical exchange, the technical transplantation of instruments is essentially a process of selective reorganization of cultural sign systems. The reform of the bass morin khuur reveals a dual cultural adaptation mechanism: at the instrumental rationality level, the cello, as a model of Western modernity, facilitated the "instrumental fusion" of the bass section through standardization (C-G-D-A tuning system) and regulation of playing posture; however, at the symbolic level, the original nomadic cultural symbols of the morin khuur (the horsehead scroll, trapezoidal resonator) and its membrane-vibration acoustics faced the dilemma of "cultural signifier suspension." While its physical form retained ethnic symbols, the shift in performance techniques towards the cello's methodology caused a disjunction between symbolic meaning and functional practice (Nettl, 2005).

This case highlights the "surface/depth" contradiction in cultural adaptation theory: reformers attempted to achieve rapid balance in the orchestra's bass section through surface-level structural changes (such as the four-string system and fingerboard setup) but failed to complete the deeper cultural gene translation—the traditional morin khuur's double-string fifth tuning, which embodies the nomadic tuning logic (microtonal ornamentation and overtone series characteristics), clashed structurally with the Western twelve-tone equal temperament system. The "adaptive mutation" triggered by this technical transplantation essentially forms the "hybridity" dilemma described by Homi Bhabha: when an instrument is neither purely traditional nor a complete modern reproduction, its cultural identity becomes ambiguous in terms of hermeneutic interpretation (Bhabha, 1994).



Figure 8 Performer playing the bass morin khuur at the 2019 China Inner Mongolia Morin Khuur Art Festival (Sohu News, 2019)

Source: Sohu News. (2019, August 29). *The First China · Inner Mongolia Morin Khuur Art Festival* [Photograph]. Sohu. https://www.sohu.com/a/337140927_737785

Characteristics of Reformed Traditional Bass Instruments in China

The reform of traditional Chinese bass instruments in the context of national orchestras exhibits three key characteristics:

1. Structural Modifications Inspired by the Cello

The redesign of these instruments builds upon the framework of traditional Chinese instruments while incorporating structural features derived from the Western cello. For instance, the bass morin khuur retains the culturally iconic horsehead carving, preserving its ethnic identity. However, critical components such as the soundbox, fingerboard, tuning pegs, and playing techniques are borrowed from the cello to improve acoustic efficiency and playability. These visual and structural adaptations aim to maintain cultural recognizability while enhancing functional capabilities. Despite these efforts, the acoustic performance of these reformed instruments remains limited. Traditional orchestras often continue to depend on the cello for low-register support, as the modified instruments struggle to match the cello's resonance, projection, and tonal depth.

2. Adoption of the Cello's Craftsmanship Principles

Prior to these reforms, Chinese orchestras lacked bass instruments with both adequate acoustic performance and distinct national characteristics. The introduction of Western cellos and double basses not only strengthened the bass section but also facilitated deeper cultural and technical exchange between Western and Chinese music traditions.

Under state-led initiatives in the mid-20th century, instrument makers began systematically studying cello construction, focusing on string configuration, string length, body proportion, and soundboard structure. By applying these scientific principles, they accelerated the reform process and optimized instrument design. Nonetheless, despite significant advances, these hybrid instruments have not fully equaled the cello's acoustic refinement and performance reliability.

3. Emphasis on Soundbox Enhancement

A major limitation of traditional Chinese instruments lies in their relatively small resonators and limited use of materials, which constrain volume and resonance. Consequently, researchers prioritized enlarging and reengineering the soundbox as a core reform strategy.

For example, the bass laruan was redesigned with a significantly enlarged resonator to improve sound projection and tonal uniformity across registers. In some cases, innovative materials such as bamboo reeds were introduced to increase reflective capacity and enhance sonic amplification. While these efforts have improved volume and sustain, the instruments still lack the depth, richness, and overtones of the Western cello, limiting their orchestral integration.

Despite advances in structural adaptation, craftsmanship borrowing, and soundbox innovation, reformed traditional bass instruments remain acoustically inferior to their Western counterparts. While they succeed in preserving cultural aesthetics and symbolic identity, their limited acoustic performance ensures that the cello continues to serve as the primary bass instrument in Chinese national orchestras. This ongoing tension between cultural authenticity and acoustic necessity

underscores the broader challenges of musical instrument reform in non-Western traditions.

The development of these reformed instruments—most of which closely imitate the cello's structural design and playing methods—reveals the deeprooted influence of Western orchestral models. Their limited adoption reflects not only acoustic shortcomings but also unresolved issues of cultural representation. As Utz (2010) observes:

"Under Western influence, China's reform of its music and instruments is called two completely opposite paradigms. These two paradigms have had profound impacts, but there are also important similarities in accepting Western music. For example, it is noteworthy that even at times of the highest anti-Western sentiment—in Japan during World War II and in China during the Cultural Revolution—European instruments and European symphony orchestras remained the main carriers of sound" (Utz, 2010, p. 144).

2.3 The Cello's Integration and Acceptance in Chinese Orchestral Practice

In 1978, China entered a new era of reform and opening-up, marking a comprehensive recovery in the development of its musical culture. Professional music performance groups at all levels, from central to local, began to reorganize and resume their activities at an astonishing pace, surpassing the pre-"Cultural Revolution" period in some respects. The application of the cello also found room for development during this time. The development of national orchestras during this period can be seen as the second peak since the 1950s and 1960s. Representative large orchestras, such as the China Broadcasting Chinese Orchestra and the Shanghai Chinese Orchestra, resumed their activities, while emerging orchestras, such as the Hong Kong Chinese Orchestra and the National Chinese Orchestra of Taiwan, gradually grew and strengthened. Over the decades following their establishment, through continuous exploration and experimentation, China's national orchestras expanded in scale and gradually established a standardized structure consisting of three types: large, medium, and small. The large orchestra typically consisted of 60 to 80 members, the medium

orchestra around 30 to 40, and the small orchestra about ten to fifteen members. The structure was as follows:

Table 3 Statistics on the Setup of Large Chinese Orchestras

	Truments	Instruments	Plucked	Percussion
		Instruments		Instruments
String	Gaohu	2	4	8
Instruments	Erhu	6	8	10
	Zhonghu	4	6	6
	Cello or Gehu	2	4	6
	Double Bass	1/181v	2	4
Wind	Bangdi, Qudi, Xindi	1	2	5
Instruments	Soprano Sheng Alto	2	2	5
	Sheng Bass Sheng	3	4	6
	Soprano Suona Alto		7 : 1	
	Suona Bass Suona		2:1	
Plucked	Yangqin	1	1	2
Instruments	Liuqin	0	0 1	4
	Pipa	2	2	4
	Zhong ruan, Da ruan	4	6	8
	Guzheng	1	1	1
Percussion	Gongs			
Instru	Drums	2-4	4-6	6-8
	Cymbals			
	Bells			

The setup of large Chinese orchestras, with their diverse range of instruments, enables them to perform not only traditional folk ensemble pieces but also complex symphonic works. This expansion has fostered the development of Chinese orchestral music. Since the reform and opening-up in 1978, as China became more

open to the outside world and as the public's musical tastes evolved, the traditional folk orchestra style was no longer sufficient to meet the expectations of audiences. In response, musicians focused more on creating new compositions. The Ministry of Culture and the Chinese Musicians Association held a series of meetings in Beijing on music creation and orchestra development. These events, varying in scale and theme, thoroughly explored issues related to creative methods, genres, and techniques, fostering musical innovation.

In this context, the creation of Chinese orchestral music rapidly advanced. Composers, influenced by more open and diverse thinking, began to explore a broader range of styles. Particularly after the 1980s, Chinese orchestral works saw significant improvements in both quality and quantity, with greater diversity in form and content. However, during performances of these new works, some orchestras found that their traditional low-pitched instruments could not produce the stable and rich bass sounds desired by composers. The improved instruments often faced issues such as low volume and muffled tone, failing to meet the orchestra's need for a full, three-dimensional sound. As a result, musicians turned to Western cellos and double basses, which were quickly adopted by many orchestras, signaling full recognition of the functionality of these Western instruments. Research on Chinese orchestras around the 1980s, including their instrument setups, performance formats, and use of low-pitched instruments, reveals this trend. The following are national orchestras that actually use the cello:

The Vanguard Band of the Jinan Military Region

Since its establishment in 1955, the Jinan Military Region Avant-garde National Orchestra (Avant-garde National Orchestra), as the only professional folk music ensemble in the People's Liberation Army of China, has played a significant role in the modernization of Chinese national music. In the 1950s, the orchestra's core task was the "reform of national instruments." To address the weakness of the low-pitched section in traditional Chinese folk orchestras, it was one of the first to introduce the cello as a tool to supplement the bass voice. The cello was combined with other improved ethnic bass

instruments, such as the gehu, to form a composite bass structure, enhancing the harmonic depth and dynamic expressiveness of the ensemble.

On the compositional level, the function of the cello shifted from "section support" to "artistic expression." In the 2006 symphonic tone poem *The Long March*, the cello, alongside the gehu, constructed an epic bass line and created a tonal dialogue through solo passages with the erhu and dizi. In a 2002 performance at the Vienna Golden Hall, the cello used pizzicato techniques to mimic the granular texture of traditional plucked ethnic instruments, achieving a localized tonal reconstruction. However, its identity as a "Western instrument" also sparked controversy. To balance functional demands with cultural identity, the orchestra modified the low hu and created a complementary differentiation with the cello.

In the instrument arrangement of the 1987 "All-Army Arts Performance" concert, it can be observed that the orchestra had already begun to use the cello as a bass instrument in traditional music performances.

Table 4 Ensemble of the Jinan Vanguard Orchestra during Ethnic Performances

	String Instruments	Jinan Avant-Garde Folk Band
String Instruments	Cello 、 Double Bass	2
	Erhu	10
Wind Instruments	Gaohu Zhonghu Membrane Flute,	3
	Transverse Flute	1
	25-key Sheng、 Alto Sheng、 Datong	1
	Xiao 、 Bawu	1
	Alto Suona	2
	Soprano Suona	3

Table 4 (Continued)

	String Instruments	Jinan Avant-Garde Folk Band		
Plucked Instruments	Yangqin	2		
	Four-stringed Liuqin,	3-4		
	Pipa 、 Sanxian	1		
	Zhongruan	2		
	Guzheng	1		
Percussion Instruments	Timpani, Paigu, Yunluo	2-4		

Shanghai Chinese Orchestra

After the Cultural Revolution and the commencement of the reform and opening-up period, the Shanghai Chinese Orchestra was re-established and resumed its normal development. In response to the government's call for expanding artistic programs and enriching cultural life, the orchestra created many outstanding works, preserving the characteristics of Jiangnan and classical music while cultivating diverse artistic styles. The orchestra's expressiveness in performing large-scale works significantly improved, aided by its complete instrumental setup and the flexibility of composers in their creative endeavors.

During this period, the orchestra's instrumental configuration was closely linked to its creative activities, resulting in fluctuations in the bass section across different works. Initially, the orchestra oscillated between the use of the gaohu and the cello for the bass. In 1978, the orchestra experimented with a harp-like instrument, and for certain large-scale works, it combined a half-cello and half-harp-like instrument configuration to achieve the desired bass sound. By the late 1980s, the cello, with its superior tonal quality, became more frequently employed in various performances.

In November 1987, the Shanghai Chinese Orchestra embarked on a tour to Singapore. According to historical video recordings, the orchestra's setup for the plucked string piece "The Camel Bell Tolls" was as follows:

Table 5 Orchestration of "The Camel Bell Tolls" — Shanghai Chinese Orchestr

	String Instruments		Plucked Instruments				
String Instruments	Cello	Double Bass	Yangqin	Liuqin	Pipa	Zhongruan	Daruan
Shanghai Chinese Orchestra	2	1	2	1	2	3	2

At the 14th Shanghai Spring Festival in 1991, the Shanghai Chinese Orchestra performed the Chinese orchestral work *Spring Festival Overture* at the opening ceremony, utilizing cellos and double basses for the low-pitched string section.

From the observations above, it is clear that, since the reform and opening-up period, judging by the instrument configurations, performance arrangements, and the use of bass instruments in these representative Chinese national orchestras, the cello has not only been accepted and recognized by most orchestras but also saw comprehensive and widespread adoption by the mid-to-late 1980s. It is evident that the cello was not replaced by traditional Chinese bass instruments; rather, its application in orchestras became increasingly extensive. This reflects the growing affirmation of the cello by musicians and a broader recognition of its importance and irreplaceability.

The rapid development and adoption of the cello during this historical period were influenced not only by the practical needs of orchestral performance but also by external factors stemming from social and cultural developments. On the one hand, although the early years of the reform and opening-up saw the emergence of outstanding performers and instrumental compositions in Chinese national orchestras, the later period witnessed a decline in their development due to the impact of emerging musical trends. Many orchestras faced financial difficulties, often operating at a loss,

leaving no extra funds to invest in instrument reform. As a result, enthusiasm for instrument modification waned significantly, leading to a near-stagnation in such efforts. On the other hand, by the 1980s, an era advocating open-mindedness, the political attributes of Chinese national orchestras gradually diminished, while cultural exchanges with foreign influences deepened. Affected by the trends of the times, people's perceptions of cultural thought and artistic aesthetics subtly shifted toward diversification. Under the influence of these two external factors, the inclusion and use of the cello were met with increasing acquiescence and acceptance.

2.4 The Maturation of Cello Application in National Orchestras

From the 1990s to the early 21st century, the world entered the "Information Age," bringing about profound changes in politics, economy, culture, and daily life, with music culture being no exception. The surge in popularity of popular music, modern music, and various other genres reflected the diversified trends of the era. However, amidst this transformation, serious and traditional music in China faced significant challenges and showed signs of decline.

Particularly after the 1992 "Southern Tour Speeches," as the socialist market economy became dominant in China's economic landscape, serious music—including traditional Chinese orchestral music—found itself in a precarious situation. Government authorities accelerated reforms in professional music performance troupes, forcing national orchestras, which had been stripped of their previous political and ideological prominence, to confront dual challenges: artistic evolution in a changing musical environment and institutional survival in a market-driven era.

Entering the new century, some major national orchestras proactively adapted to the cultural market's demands, achieving notable reform successes with support from the Ministry of Culture. Breaking through long-standing stagnation, these orchestras embraced foreign cultural influences with openness, fostering East-West integration, and steering Chinese orchestral music toward diversification and internationalization. Against this backdrop, the cello, building on its 20th-century foundations, solidified its role as a "permanent fixture" in the bass section of Chinese

national orchestras, gaining mainstream acceptance and reaching maturity in the new era. The application of the cello can be observed through the actual practices of major national orchestras in China:

1. China Broadcasting Chinese Orchestra

The China Broadcasting Chinese Orchestra, one of the first national orchestras established in China, primarily served radio broadcasting. It transmitted its music through radio waves and recordings rather than live performances, producing numerous films, TV shows, radio programs, records, and CDs. As a result, its recording work became more extensive than its stage performances. Given the nature of radio orchestras and their mission, achieving clean tones and excellent sound effects became its greatest strength, placing higher demands on the orchestra's instrumental composition and playing techniques.

After 1992, the orchestra continued to reform and expand its personnel structure, finalizing its instrumentation. The cello became a permanent part of the orchestra's bass section. The inclusion of the cello, a Western instrument, balanced the sound across the high, middle, and low registers during recordings and album productions, adding more depth to the music. Since 2000, whether performing domestically or on international tours to Europe, Singapore, and other locations, the orchestra has exclusively used the cello for the bass part, without switching to traditional national bass instruments. Cellists who have performed with the orchestra include Xiong Tao, Wang Daqi, Gao Renyong, Gao Huanzhi, Peng Hong, and Zhao Xiaobei. To date, the orchestra continues to use the cello as the primary bass instrument in all of its performances.

2.China National Traditional Orchestra

After more than half a century of development, the China National Traditional Orchestra has become the largest and most artistically accomplished traditional orchestra both domestically and internationally. As a national-level artistic institution directly under the Ministry of Culture, it carries a more prominent cultural image and mission compared to other orchestras. Consequently, the orchestra

frequently appears on the global stage, representing China in international tours across the United States, Japan, Singapore, Austria, and other countries. Notably, it has performed Chinese traditional music at the United Nations General Assembly Hall. Over the years, the orchestra has adhered to a "nationalization" development philosophy, emphasizing ethnic characteristics in its ensemble structure, instrument reforms, and repertoire creation. Even during the nationwide decline in instrument reform efforts, the China National Traditional Orchestra persisted in exploring and experimenting with traditional Chinese bass instruments, incorporating some successfully improved instruments into its performances.

In 1998, during a landmark concert at Vienna's Golden Hall, the orchestra used laruan and bass laruan as its bass instruments. These instruments were innovatively modified versions of traditional Chinese plucked-string instruments, developed jointly by Zhang Zirui and the Suzhou National Musical Instrument Factory. However, due to inherent limitations in tonal quality and timbre—issues that remained unresolved in subsequent years—the orchestra eventually discontinued their use. Since then, the cello has become the primary bass instrument in the ensemble. This shift reflects the orchestra's commitment to both preserving traditional aesthetics and meeting the practical demands of modern orchestral performance, ensuring a balanced and resonant sound in its international engagements.



Figure 9 1998 China National Traditional Orchestra Concert at Vienna Musikverein

Source: China National Traditional Orchestra. (1998). 1998 China National Traditional Orchestra concert at Vienna Musikverein [Screenshot]. Bilibili.

In 2013, the "Xueping No. 1," a traditional Chinese bass instrument developed collaboratively by Hu Xueping and the China National Traditional Orchestra, was successfully introduced and awarded the Annual Outstanding Reformed Instrument Prize. This instrument was officially incorporated into the orchestra's bass section and is recognized for its distinct ethnic characteristics in design. The "Xueping No. 1" draws inspiration from the pipa, a traditional Chinese plucked-string instrument, particularly in its pegbox and soundhole designs, which embody strong Eastern aesthetics. However, beyond these visual elements, the instrument shares nearly identical craftsmanship and material selection with the Western cello. This synthesis of Eastern visual identity and Western acoustic functionality allows the "Xueping No. 1" to integrate seamlessly into the orchestra's sonic framework while maintaining a traditional visual appeal.

Despite its nationalized appearance, the "Xueping No. 1" exemplifies how the structural and acoustic requirements of modern orchestral bass instruments transcend cultural boundaries. This convergence of Eastern and Western design philosophies reflects the evolving approach to instrument construction, balancing cultural preservation with practical musical needs.

Judging from the orchestra's recent performances, the traditional Chinese bass instrument "Dahuqin" (e.g., the "Xueping No. 1") is used selectively in specific contexts or repertoires, such as large-scale nationalistic productions like *Magnificent National Style* and *Impression of Traditional Music*, while the cello remains the default choice in most other cases.



Figure 10 "Use of the 'Xueping No. 1' in Live Performance"

Source: China National Traditional Orchestra. (n.d.). Yáng yáng guó f**ē**ng [Screenshot]. Bilibili. https://www.bilibili.com/video/xxxxx

Since the late 1990s, the China National Traditional Orchestra has employed a dual-system approach for its bass string section, alternating between the cello and reformed Chinese bass instruments. In practice:

The cello is favored for daily rehearsals and smaller domestic performances due to its practicality and tonal consistency.

Traditional Chinese bass instruments (e.g., laruans, "Xueping No. 1") are prioritized for international tours or grand national music concerts to emphasize cultural authenticity.

This flexible approach reflects the orchestra's strategy of balancing functional efficiency with cultural representation, adapting its instrumentation to the specific context while navigating the tension between tradition and modernization.

3. Shanghai Chinese Orchestra

With a long and distinguished history, the Shanghai Chinese Orchestra holds the distinction of being China's first modern large-scale traditional orchestra. Renowned for its distinctive style and technical excellence, it has maintained an active presence on the international stage. After more than seventy years of evolution, the orchestra has grown into a fully professional ensemble with a complete four-section structure and a large-scale, specialized performance season.

Strategically located at the heart of the Jiangsu-Zhejiang-Shanghai cultural sphere, the orchestra has leveraged its geographical advantage to absorb diverse cultural influences, achieving rapid development in the new century. Its performances have won numerous awards at the "Shanghai Spring" International Music Festival and other domestic and international arts festivals, accumulating an impressive repertoire. Additionally, the orchestra frequently participates in major cultural events, performing for visiting heads of state, government leaders, and distinguished international guests.

In the late 1990s, the orchestra employed a mixed approach in its bass section, combining the cello with reformed Chinese bass instruments—as seen in concerts celebrating the Hong Kong handover and Lunar New Year performances. However, after its 2001 international tour, the orchestra phased out traditional Chinese bass instruments entirely. Today, the Shanghai Chinese Orchestra maintains a highly systematic structure across its bowed strings, plucked strings, wind, and percussion sections. In selecting bass instruments, it embraces a Sino-Western hybrid concept, consistently using the cello as its primary bass instrument since the early 2000s.

Based on this survey of representative and influential Chinese orchestras, it is evident that over 90% of ensembles predominantly use the cello in their bass sections, while only a handful continue to employ traditional Chinese bowed bass instruments. This demonstrates the cellos widespread and entrenched role in modern Chinese orchestras, where it has become a standardized component of the ensemble structure. Since the new century, the cello's application has reached a stage of mature integration, solidifying its status as an indispensable element in Chinese orchestral music.

2.5 The "Nationalized Coloration" of Chinese Cello Works Artistic Characteristics of Chinese Cello Compositions

The artistic characteristics of Chinese cello compositions are diverse and rich, showcasing unique charm across multiple dimensions. Among these, the integration of Chinese and Western compositional techniques, the incorporation of folk

music elements, and the cultural connotations embedded within the works are particularly noteworthy:

A. Integration of Chinese and Western Compositional Techniques: Chinese cello compositions often skillfully blend Western musical compositional techniques with traditional Chinese music elements. This integration is not a mere juxtaposition but rather an organic, deep-level fusion that creates a distinctive musical style. A prime example of this is composer Guo Wenjing's chamber music piece *Ba*, written for cello and piano. It stands as a model of Sino-Western integration. The work combines folk music elements from the Sichuan region—such as unique scales, rhythmic patterns, and melodic structures—with modern cello techniques, including complex fingering, bowing methods, and rich tone color variations. In terms of pitch organization, the composer draws on Western harmonic theory while incorporating the tonal characteristics of traditional Chinese music, resulting in a sound that blends the three-dimensional and logical qualities of Western music with the elegance and spirituality of Chinese traditional music.

Structurally, *Ba* follows modern formal principles but is based on a theme-and-variations technique that combines the development of special materials with the traditional Chinese technique of thematic development. The piece adheres to Western formal structures but cleverly integrates the Chinese traditional approach of transition and conclusion, making the overall structure both organized and full of variation. The use of special performance techniques—such as pizzicato and striking the strings—further adds a unique flavor to the work, echoing percussion elements of Sichuan folk music and creating a rich local color and atmosphere. Through these Sino-Western compositional techniques, *Ba* not only fully exploits the artistic expressiveness of the cello but also demonstrates the potential of the instrument to convey Chinese folk musical styles. It also reflects Chinese composers' innovative thinking and spirit of exploration in music creation.

B. Incorporation of Folk Music Elements: Many Chinese cello works are deeply influenced by traditional Chinese music in terms of melody, mode, and

atmosphere, drawing extensively from rich musical elements like Chinese folk songs and opera, which imbue the pieces with a strong and distinctive national flavor. Melodically, composers often utilize the pentatonic scale (gong, shang, jue, zhi, and yu), as well as motifs from various regional folk music, which typically feature graceful lines, delicate emotional expression, and a unique charm. This enables the cello performance to convey the distinct essence of Chinese music.

In terms of modes, Chinese cello works often make use of various folk modes, each with its own color and emotional undertone, which can imbue the piece with a distinctive style and atmosphere. For example, the zhi mode often gives a bright and cheerful feeling, while the yu mode is more suited to evoke sorrowful and profound emotions. By skillfully employing these modes, composers enrich the emotional expression of the music, allowing the work to resonate more deeply with Chinese audiences' cultural emotional experiences.

In terms of evoking atmosphere, many Chinese cello works borrow from the artistic conventions of traditional Chinese opera, poetry, and other art forms. Through the use of melody, rhythm, and tone color, these pieces depict quintessentially Chinese landscapes, humanistic sentiments, and historical narratives, allowing the listener to immerse themselves in the unique charm of Chinese traditional culture, as if they were transported into the realm of Chinese classical art.

C. Cultural Connotations of the Works: Chinese cello compositions often carry deep and rich cultural connotations, serving as the product of composers' deep reflections on Chinese history, culture, and philosophy. Through music, these works express the essence and values of Chinese culture. Many pieces are inspired by historical events, notable figures, and cultural traditions, seamlessly incorporating these cultural elements into the music. As a result, the works are not merely sonic art but also cultural carriers.

For example, some cello compositions are grounded in ancient Chinese philosophical thought, such as Daoist views of nature or Confucian ideals of harmony. Through the structure, melody, and expressive techniques of the music, these

philosophical ideas are brought to life, allowing the audience to experience the wisdom and depth of Chinese culture. Simultaneously, these works reflect the development and changes of modern Chinese society, offering composers' reflections on the spirit of the era and the inheritance and innovation of national culture.

Analysis of Works

A systematic study of the artistic characteristics of Chinese cello compositions must be based on music morphology as its methodological foundation. This approach should combine close reading to deconstruct the folk-melodic lexicon, and then, through a three-dimensional analysis of pitch organization, rhythmic modalities, and sonic space, reveal the deep relationship between the formal language of the music and the national aesthetic consciousness. The analysis will focus on the following works:

1. Autumn Thoughts

Xiao Youmei's Autumn Meditation is recognized as China's first cello solo piece, marking a significant shift toward the nationalization of Western musical forms while integrating both Chinese and Western modal systems. Before the founding of the People's Republic of China, original compositions for the cello were virtually nonexistent. However, following the May Fourth Movement (1919) and under the influence of new intellectual trends, the Chinese government began establishing symphony orchestras, leading to the gradual emergence of works featuring the cello as a melodic instrument. This work clearly reflects the influence of 18th- and 19th-century European music. Xiao Youmei, who studied at Tokyo Imperial University, Tokyo Music School, and the Leipzig Conservatory (where he earned his doctorate), was deeply influenced by the musical thought of late 19th- and early 20th-century Europe. During this period, European music transitioned from the peak of Romanticism to the maturation of Impressionism, with composers like Debussy, Stravinsky, and Schoenberg reshaping musical expression.

While Xiao adopted Western techniques such as counterpoint, harmony, and texture, he stressed the importance of preserving Chinese musical

traditions rather than pursuing complete Westernization. *Autumn Meditation* emerged from his exploration of national instrumental music, laying the groundwork for the development of Chinese cello composition.

The piece is structured within a traditional Western major-minor tonal framework while incorporating Chinese pentatonic elements, creating a hybrid style. For instance, the thematic melody often revolves around six-note patterns, deliberately avoiding the Western scale's sixth and seventh degrees or relegating them to passing tones and weak beats. This approach approximates a hexatonic folk scale while suppressing the leading tone, reinforcing a pentatonic character. Below are three representative passages illustrating this modal treatment:

Example 1:

Composer: Anonymous

Transcriber: ShaoQian MO



The work also successfully integrates Western harmony within the framework of the pentatonic modal system. For instance, the composition's main theme predominantly adheres to an E major tonality, which corresponds to the traditional Chinese E-gong mode. Throughout much of the pentatonic melodic passages, the harmonic progression utilizes tonic-function chords that align seamlessly with the modal tones. Even when subdominant or dominant chords featuring scale degrees VI or VII emerge, they correspond to the traditional Chinese "Qingjiao" (raised fourth) and "Biangong" (lowered seventh) non-diatonic tones—compositional techniques often employed in transitional passages or cadential endings. The harmonies serve to support the melodic development, blending effortlessly with the tune and creating a harmonious

synthesis of pentatonic melody and Western harmonic construction, while preserving distinctive Chinese modal characteristics.

In listening to *Autumn Meditation*, one can also discern the influence of Chopin. The work exhibits a refined elegance, particularly in its natural phrase transitions and lyrical, song-like qualities that evoke the essence of Chopin's nocturnes. The piece unfolds its thematic material through a call-and-response format, with flowing sections that resemble lyrical poetry. This musical language deliberately emulates Chopin's artistic essence, reflecting Xiao Youmei's admiration for Chopin's compositional mastery while simultaneously offering a patriotic homage through musical expression. Notably, the work's main thematic motif subtly echoes Chopin's *Nocturne in E major* (Op. 9, No. 2), thus creating an artistic dialogue across cultures and eras.

2. Northwest Folk Dance

In 1950, Ding Fuxiang composed *Northwest Folk Dance*, a pioneering cello solo work that embodies distinctive national artistry. Following the establishment of New China, the nation's musical arts were revitalized with renewed vigor. As part of this cultural renaissance, Chinese cello compositions underwent a historic transformation—evolving from nonexistence to prominence and from fragility to strength—ultimately developing into a mature artistic system. Guided by the principle of expressing Chinese cultural identity through Western instruments, Ding embarked on a sincere and tireless exploration.

The piece's two contrasting sections, each employing different bowing techniques, vividly depict the landscapes and customs of Northwest China, achieving a harmonious fusion of scene and sentiment. This perspective is essential for both understanding and performing the work. *Northwest Folk Dance* successfully transplants rich ethnic flavors into the cello's lyrical voice through vocal-like folk song passages and lively, dance-inspired melodies. The composition adopts a binary form, concise yet powerful, drawing melodic material from the folk music of Shaanxi to portray the vibrant daily life of Northwest communities.

The first section presents a freely flowing melody that conveys the legendary cultural depth of the Northwest. Played with strong dynamics and broad bow strokes, it establishes the thematic character of the work. The opening two phrases are repetitive in structure, differing only in their final cadential notes (D and G, respectively), creating a motivic "call-and-response" that permeates the entire composition.

Example 2:

Northwest Folk Dance

Transcriber: ShaoQian MO



The subsequent double - note melody, with the cello's rich and mellow timbre, further intensifies the above theme, conveying the author's depiction of figures and regional traits from China's northwest. Audibly, the two - note melody resembles an echo of the previous melody in the gullies and valleys of the Loess Plateau.

Example 3:

Northwest Folk Dance

Transcriber: ShaoQian MO



In the final two phrases of the first section, the thematic melody is restated in a fourth transposition, reinforcing the music's deepening effect through repeated phrases. In the second section, with lively and passionate emotion, the cello

Transcriber: ShaoQian MO

depicts the simplicity, frankness, warmth, and boldness of the people in Northwest China. Using strong, rapid staccato short bows, the cello plays through the entire section in one go. A vibrant folk atmosphere emerges, and the scene of a wild dance unfolds in the bow's rhythm, showcasing a close integration of fragmented and dense melodies. In the short sixteenth - note quadruplet pattern, the composer uses a notation of the first three sixteenth notes plus a sixteenth - note rest instead of the common sixteenth - note per beat notation, making the bow's force more explosive:

Example 4:

Northwest Folk Dance

The two contrasting musical sections, with their sharply divergent bowing techniques—varying drastically in length—vividly depict the cultural and natural essence of China's Northwest. The first section paints the "landscape," while the second portrays the "people," merging scenery and humanity into a harmonious, expressive whole. This serves as a fundamental guide for interpreting and practicing the piece.

3. Festival of the Tianshan Mountains

The transition from ethnic characteristics to nationalization is an inevitable path in music, particularly when using the cello—a Western bowed string instrument—to interpret a Chinese composition that is rich in regional and cultural flavor. Festival of the Tianshan Mountains is an exemplary cello work that incorporates distinctive Chinese ethnic characteristics, while also embodying a style typical of the Western Regions of China. This composition is deeply infused with the musical flavors of Xinjiang's ethnic minorities, reflecting the region's unique cultural identity. Xinjiang music

holds a prominent position within the broader context of China's ethnic music system. As a multi-ethnic region, Xinjiang is home to a diverse array of indigenous groups, including the Uyghur, Han, Kazakh, and Mongolian peoples. Together, these groups have contributed to the formation of a rich and varied musical landscape. The region's musical heritage is particularly notable for its deep connection to the cultural practices of its peoples, who are renowned for their love of music, as well as their exceptional skills in singing and dancing.

Xinjiang's music is characterized by its smooth, passionate melodies and lively, exuberant rhythms, which often create a sense of joy and celebration. The overall structure of the music tends to be relatively regular, yet it remains highly expressive and dynamic. A defining feature of Xinjiang music is its abundant use of chromatic notes, which imbue the music with a vivid and colorful quality. This chromaticism contributes to the music's distinctive character, particularly its "danceable" nature, where the music often serves as a medium for emotional expression through movement. The interplay between melody, rhythm, and dance in Xinjiang music forms a powerful artistic expression, linking the region's rich cultural heritage with its vibrant musical traditions.

The Mongolian population constitutes a significant portion of Xinjiang's demographic, and the morin khuur, known as the "cello of the grasslands," is the most representative instrument of Mongolian culture. Renowned for its bold, powerful, and emotionally stirring sound, the morin khuur's expressive qualities are emulated by the cello in the introduction of Festival Tianshan Mountains. As a Western instrument, the cello was quickly embraced within Chinese folk music due to its ability to produce both bowed and plucked sounds. Its wide range and versatile playing techniques provided a solid foundation for its nationalization within Chinese music.In Festival Tianshan Mountains, the composer seeks to depict the grandeur and towering peaks of the Tianshan Mountains, alongside the boundless passion of the grassland people. The cello's rich timbre is fully utilized to create varied rhythmic movements that respond dynamically to the shifting musical elements. The cello is employed to emulate

the morin khuur's robust and majestic character, as well as its impassioned expressiveness, with the goal of capturing the imposing beauty of the Tianshan range and the boundless ardor of the steppe inhabitants:

Example 5:

Festival of the Tianshan Mountains

Transcriber: ShaoQian MO



As pivotal carriers of the musical culture of the Western Regions, the dombra (Kazakh) and rawap (Uyghur) are quintessential ethnic instruments, adept at both accompaniment and solo performance. These instruments are characterized by their distinctive "heavy plucking and light flicking" technique, utilizing unique string articulation to vividly emulate natural soundscapes (such as flowing water and birdsong) and nomadic acoustic signatures (including the rhythmic hoofbeats of livestock). In this composition, the cello innovatively incorporates techniques such as pizzicato tremolo and ricochet bowing, achieving a cross-cultural emulation of the timbral and rhythmic patterns found in these ethnic instruments. Through specialized string articulation, the composer successfully constructs dynamic musical imagery that evokes the essence of steppe horse racing:

Example 6:

Festival of the Tianshan Mountains

Transcriber: ShaoQian MO



From the perspective of musical ontology, the ethnic minority music of Xinjiang exhibits pronounced "danceability" characteristics. This essential

quality manifests in three dimensions: (1) rhythmic organization, which features syncopated backbeat placement to enhance kinetic energy; (2) performative techniques, wherein the archetypal rhythmic patterns of the dombra and rawap are transpositionally adapted to cello pizzicato; and (3) cultural functionality, where the symbiotic relationship between music and dance profoundly reflects the equestrian nomadic lifestyle. This music-dance intertextuality not only serves as an artistic distillation of pastoral culture but also constitutes the core feature of the work's ethnic compositional style.

From a music-morphological perspective, the music of the Western Region (specifically referring to Xinjiang) demonstrates its most salient distinguishing characteristics in interval relationships, beyond differences in performance or vocal styles. Particularly, the combination of fourth-leaps and second-step progressions forms a remarkable interval feature of this regional music. Such interval relationships appear prominently throughout the musical repertoire of the region. This characteristic interval relationship is extensively represented throughout the composition:

Example 7:

Festival of the Tianshan Mountains

Transcriber: ShaoQian MO

Example 8:

Transcriber: ShaoQian MO



Besides the above musical characteristics, in this work, The composer leverages the cello's wide range to vividly depict natural landscapes such as grasslands, streams, and mountains through the use of full - bow legato and rich, nuanced vibrato. Techniques like spiccato, staccato, pizzicato, and ponticello are employed to create dynamic scenes of dance and horse - racing, capturing the unique flavor of Xinjiang music:

Example 9:

Festival of the Tianshan Mountains

The cello's deep, full tone and diverse techniques not only highlight its inherent qualities but also embody the subtle, evocative beauty of Chinese music, where emotions are expressed through scenery in a poetic and picturesque manner. This work successfully integrates the distinctive musical style of the Chinese nation with contemporary trends and external artistic influences, meeting the demands of the new era and achieving a true synthesis of traditional and modern elements.

4. Tea-Picking Ballad

Tea-Picking Ballad occupies a pivotal position in the development of Chinese cello music, recognized as the first Chinese composition to feature the cello as the principal solo instrument within the Western concerto framework. This work is profoundly rooted in the cultural heritage of Southeast China and assimilates core elements of traditional Chinese music—particularly in melodic construction, timbral articulation, and emotional expression. By creatively integrating the structural form of the Western concerto with indigenous musical idioms, the piece establishes a distinctive sonic aesthetic characterized by a strong national identity.

The significance of *Tea-Picking Ballad* lies not only in its pioneering role in localizing the cello concerto genre within the Chinese context, but also in its successful synthesis of national musical thought, traditional aesthetic sensibilities, and Western instrumental techniques. It represents a critical advancement in the articulation of cultural subjectivity and contributes meaningfully to the practice of intercultural music-making in contemporary Chinese cello art.

From a melodic and modal perspective, *Tea-Picking Ballad* draws upon stylistic features commonly found in traditional Hakka mountain folk songs indigenous to Fujian Province. These folk melodies—especially those prevalent in the Wuyi Mountain region—are integral to the musical culture of Hakka communities in western Fujian, and are typically performed in local dialects. The melodic contour and modal characteristics of these songs have exerted a formative influence on the musical language of regional folk operatic traditions, enriching them with narrative expressivity and lyrical organization .

These melodies demonstrate considerable flexibility, evolving through diverse modes of performance and regional interpretation. Lyrically, they often adhere to the regulated seven-syllable ($q\overline{l}$ $y\acute{a}n$) poetic form, with stanzas most commonly composed of five lines. Four-line variants are also prevalent, reflecting a degree of structural variation and poetic adaptability. The persistence and variation of these forms highlight the dynamic and performative nature of Hakka folk song transmission.

The vocal style of such folk songs is typically based on a repetitive melodic core and frequently employs the Yu-Zhi mode (Yu-Zhi Diao), a pentatonic modal framework distinctive to traditional Chinese music. This modal system emphasizes the tones YU (corresponding to "la" in Western solfège) and Shang (approximately equivalent to high "re"), which are strategically placed on metrically accented beats and often extended in duration. These tones are also frequently used as cadential pitches at phrase endings, a practice that contributes to both the structural coherence and emotive depth of the melody:

Example 10:

Tea-Picking Ballad



At the level of structural design, the composer innovatively adopts the tripartite framework characteristic of traditional Chinese music to construct the core of the work. The initial theme is grounded in an instrumentalized folk melody, whose modal structure highlights the pentatonic features typical of Chinese folk music.

At the same time, the frequent use of semi-cadential formulas resolving on the primary tone of the shang mode creates a lingering, evocative Eastern sonority. Through a moderately paced and steady rhythmic texture, the composer not only preserves the cello's inherent lyrical expressiveness and rich timbral depth, but also subtly alludes to a poetic retrospection of the warm, enduring life in the tea mountains.

As the thematic material organically unfolds, the work employs progressive transformations in textural density and timbral coloration to generate a visually suggestive spatial narrative logic. The flowing rise and fall of the melodic lines evoke a scroll-like depiction of the Wuyi mountain landscape, gradually revealing itself in a manner that interweaves sonic and visual imagery. This aesthetic approach transcends mere pastoral memory, achieving a refined artistic sublimation. The structural thinking reflects the inherited aesthetic paradigm of *qi-cheng-zhuan-he* (introduction, development, transition, and conclusion) in traditional Chinese music, while simultaneously engaging in a creative dialogue between folk musical materials and the developmental logic of Western sonata form. Following three gradually intensifying musical sequences, the phrases unfold in stratified layers, conjuring a richly evocative image of the composer's homeland.

Example 11:

Tea-Picking Ballad



The second section of the piece, introduced by natural harmonics, is characterized by a more lively and animated atmosphere. In this structural segment, the theme undergoes a transformation in tempo—marked not only by an acceleration but also by the introduction of a cheerful and spirited melodic passage performed by the cello. This lively mood evokes a sense of pure and vivid

scenery. The use of natural harmonics on the cello produces a bright timbre that contrasts with the solid tones, together portraying a vibrant and dynamic vision of the homeland. It expresses the playful and joyful interactions between young men and women on the tea-covered hills, as well as the bustling scenes of labor, forming a kind of narrative rooted in real-life imagery. The work integrates the literary and artistic qualities of traditional Chinese folk songs, employing a mode of expression that combines the real and the imagined. Within its musical sections, it reflects a dynamic interplay of tension and relaxation, as well as an alternation between the tangible and the intangible, thereby conveying vivid scene depictions and a distinctive narrative style.

Example 12:

Tea-Picking Ballad

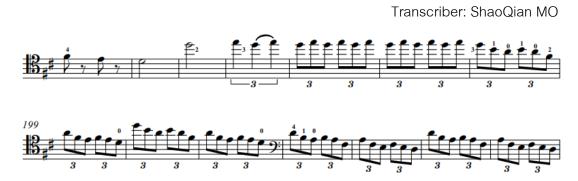
Transcriber: ShaoQian MO



The third section conveys a spirited and exuberant emotional expression, culminating in the climactic peak of the entire work. A canon-like passage between the cello and the accompanying ensemble generates a wave-like ebb and flow of emotional intensity. This section vividly depicts scenes of communal celebration, capturing the people of Wuyi Mountain in Fujian joyfully singing and dancing. The use of continuous triplet figures intensifies the melodic development, lending greater cohesion to the thematic material and heightening the emotional momentum. The section concludes with an impassioned cello passage, serving as a musical tribute to the flourishing, energetic new life of rural communities under the leadership of the new government.

Example 13:

Tea-Picking Ballad



3 To examine the social roles and cultural significance of the cello in contemporary China.

Against the backdrop of globalization, musical art, with its unique linguistic quality, transcends cultural and national boundaries to become a shared cultural treasure of humanity. It not only enriches people's spiritual lives but also fosters communication and understanding among different cultures. As part of musical art, the cello, with its distinctive artistic charm and profound cultural heritage, plays a significant role in public aesthetic education in contemporary China.

At the level of art education, cello art is not merely a form of training in solo and ensemble performance skills but also an effective medium for comprehensively cultivating individual aesthetic qualities, emotional expression, and physical-mental coordination. In the context of contemporary socio-cultural dynamics, cello art, as a transnational artistic form, showcases its unique allure through concerts, art festivals, and other events. It not only enriches people's inner worlds but also serves as a bridge for cultural exchange, promoting communication and dissemination among diverse cultures.

This multidimensional value construction makes cello art a compelling case study for examining theories of cultural globalization. Its developmental trajectory validates the effectiveness of Roland Robertson's "glocalization" theory, demonstrating how global cultural forms and local aesthetic needs can achieve creative integration.

3.1 The Sociocultural Impact of Cello in the Contemporary Era

1. Public Welfare Cello Masterclass

On February 23, 2024, the Zaozhuang Cultural Center in Shandong Province meticulously organized an influential public cultural event by inviting world-renowned cellist Professor Christoph Henkel to conduct a public welfare cello masterclass in Zaozhuang. This initiative aimed to enhance cello performance skills and artistic appreciation levels in Zaozhuang, with a particular focus on promoting high art among student populations. Through this masterclass, local residents gained the rare opportunity to engage closely with and delve deeper into the art of cello performance.

Leveraging his profound artistic expertise and extensive pedagogical experience, Professor Henkel attracted numerous cello enthusiasts to gather at the Zaozhuang Cultural Center, collectively immersing themselves in the captivating charm of cello artistry. The event not only received acclaim from music aficionados and the general public but also significantly advanced the development of public aesthetic education initiatives.



Figure 11 2024 Public Masterclass at Zaozhuang Cultural Center

Source: Baidu Baijiahao. (2024, May 2). 2024 Public masterclass held at Zaozhuang Cultural Center. Baidu Baijiahao. https://baijiahao.baidu.com

In the information age, short - video platforms have become a new driving force for public aesthetic education, offering innovative ways to spread art education. Their interactivity, convenience, and entertainment make music education more accessible. Many professional cello educators now join in online activities for charitable teaching. For instance, Zhao Xuyang from the Central Conservatory of Music popularizes cello - playing skills and expression techniques via TikTok lives and short videos. Viewers can ask questions instantly, which enhances learners' efficiency and participation. This approach shows how short - video platforms can bring cello art to the public, making it a part of everyday life. / III.

2.Cello Festival

The cello festival, a highly professional art event, offers an in-depth and comprehensive educational avenue for public aesthetics with its rich content. A prime example is the International Cello Festival hosted by the Shanghai Conservatory of Music since 2013. This festival has evolved into a global platform showcasing China's cello development. In 2023, the 6th festival prioritized academic pursuits, addressing cutting-edge topics like "Adjustments and Opportunities in the Evolving Cello Art." Through high-caliber teaching, research, and performances, it upheld a balance of artistry and academia. Maintaining close ties with international music schools and industry peers, the festival has propelled China's cello profession to align with global standards, enhancing its international visibility and becoming a widely influential event in the industry.



Figure 12 6th International Cello Art Festival

Source: Shanghai Conservatory of Music. (2023, December 13). The 6th International Cello Art Festival [News article]. Shanghai Conservatory of Music. https://www.shcmusic.edu.cn/2023/1213/c1683a49843/page.htm

The art festival emphasizes the integration of art and education, offering young performers and students opportunities for learning and showcasing through masterclasses, concerts, and forums. For instance, the masterclass by renowned Chinese cellist Professor Jian Wang attracted students and music enthusiasts nationwide, providing them with direct access to world-class artists. Furthermore, the festival has pioneered an innovative "teaching-creation-performance-research" integrated talent development model, driving pedagogical advancements in cello education.

In terms of social impact, the festival has not only enhanced the Shanghai Conservatory of Music's international reputation but also contributed to Shanghai's city branding and cultural soft power. Through high-caliber concerts and public art events, the festival has drawn large audiences, significantly promoting the popularization and dissemination of cello art.

3.2 The New Roles of Cultural Groups

The dissemination of cello art in China is rooted in the evolution of the subject, object, and medium of communication across different periods, which inevitably leads to variations in the content, methods, and effects of its dissemination. The subject

of dissemination refers to the social individuals participating in the process of musical communication. As the primary agents of communication, humans have played this role since the earliest stages of musical transmission. Composers, performers, and audiences are all essential components of the entire music dissemination process. Without human involvement, the propagation of music would be impossible. Even in modern times, despite the integration of advanced technology into musical dissemination, it is still people who utilize these technologies to achieve their goals. Notably, as the subject of musical communication, humans possess a strong social attribute—the cultural context of the society in which the disseminators live directly influences the content and effects of musical transmission.

In the 21st century, the once purely cultural inheritance relationship has transformed into a supply-and-demand dynamic of cultural commodities, giving rise to numerous new roles in the circulation of these goods. Therefore, examining the current social attributes of musical instruments must be approached from the perspective of new cultural groups. The author conducted an online questionnaire survey targeting "non-professional cello learners in society" to investigate amateur cello practitioners, including both active learners and those who had completed one or two courses but were no longer studying. A total of 154 participants voluntarily completed the survey.

The emerging roles in contemporary cello culture can generally be categorized into three types:

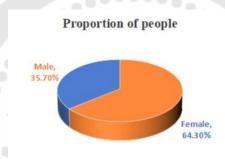
1. The first and most predominant type consists of social learners who engage in cello cultural practices primarily through cultural consumption. These participants typically come from the general public. Below are the basic demographic characteristics of the 154 surveyed learners:

A. Gender: Among the 154 participants, 55 were male (35.7%) and 99 were female (64.3%), indicating a significantly higher proportion of female learners.

Table 6 Gender Distribution Chart of Social Cello Learners

Serial Number	1	2	3	4	5	6	7
Age	Under 18	18-24	25-30	31-35	36-40	40-49	50 or above
Number of persons	9	20	60	33	16	12	4
percentage	5.80%	12.90%	39%	21.50%	10.40%	7.80%	2.60%

Table 7 Proportional Chart of Gender Data



Statistics show that among the surveyed cello learners, 129 were aged 18 - 40, accounting for 83.8% of the total and forming the main age group, with the 25 - 30 - year - old subgroup being the largest at 39%. Females under 30 accounted for 71% of the female learners, while males under 30 made up only 34.5% of the male learners. Overall, females were more numerous and younger, while males were fewer and relatively older.

These cello learners are diverse in occupation, including college students, white - collar workers, homemakers, retirees, and the unemployed. White - collar workers encompass a range of professions like office staff, civil servants, lawyers, business managers, and teachers. This group represents the new consumer base for cello culture. They often have a certain economic foundation and take up cello for reasons such as personal interest, relaxation from work stress, or entertainment.

B. Duration of Cello Study

"Survey Question:

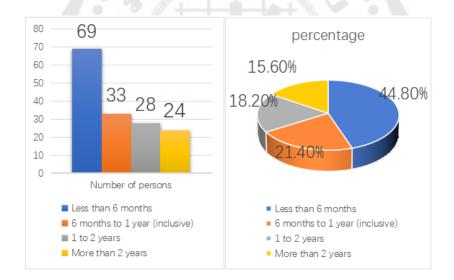
How long have you been learning the cello? ______

Duration of Cello Study"

Table 8 Chart of Learning Duration

Answer number	A	В	С	D
Learning cello age	Less than 6 months	6 months to 1 year (inclusive)	1 to 2 years	More than 2 years
Number of persons	69	33	28	24
percentage	44.80%	21.40%	18.20%	15.60%

Table 9 Proportional Chart of Learning Duration Data



Among the 154 cello learners, those who studied for less than six months or between six months and one year accounted for 66.2%, with 44.8% studying for less than six months. Many learners paused or discontinued their studies after one year due to work, family, and other factors.

The second category represents a distinctive group within the cello cultural market—the market operators and managers. Although relatively small in size, this group serves as a crucial bridge connecting cello cultural production and consumption. As core organizers of market operations, they primarily consist of two

types: traditional businessmen with extensive commercial experience, and a new generation of entrepreneurs who also possess professional cello expertise. These market operators typically exhibit distinct modern urban cultural characteristics: most were raised in urban cultural environments, received systematic modern higher education, and maintain open mindsets unconstrained by traditional cultural norms. In terms of business operations, they demonstrate acute market insight and mature management philosophies, dominating the allocation of resources in the cello cultural market through capital operations and resource integration. Notably, the significant fluctuations in cello market prices in recent years are directly correlated with this group's market strategies and operational practices.

From the perspective of cello - culture market operators, Beijing's "Cello Friends", a typical case reflecting the concepts of new - generation entrepreneurs, perfectly matches the commercial logic and cultural values of this group. Founded in 2014 by Wu Linfeng, "Cello Friends" is a one - stop enterprise providing all - around cello - related services.



Figure 13 The founder of "Cello Friends," Wu Linfeng.

Source: Wu, L. (2024, April 15). Cello ensemble performance at the 2024 China Cello Festival [Photograph]. WeChat Official Account.

https://mp.weixin.qq.com/s/yourlinkhere

"I majored in economics and law at Peking University, not in cello. But as a cello enthusiast, I find it fulfilling and beneficial. I want to share this joy with others. So, I've organized cello - lovers, including adults, children, and parents, since 2014," said Wu Linfeng, the founder. Wu, a non - professional player turned entrepreneur, combines artistic and business thinking. His "education + performance + self - media" model is a great example of resource integration. The alliance has standardized cello education products and made them replicable through self - developed teaching materials and a graded teaching system. It offers online and offline teaching, covering solo, chamber, and orchestral training, and holds events like music salons and lectures, such as "Summer Sounds" and "Seeking Sounds in Snow." These activities, blending classical, pop, and Chinese ethnic music elements, reflect modern music - education industrial thinking.

"Music - education improvement won't happen overnight. Fortunately, the next generation will find it easier," Wu said. The alliance's youth orchestra, founded in 2016, comprises students from Beijing's middle and primary schools and international schools. Through systematic cello ensemble training, it enhances students' playing skills.



Figure 14 "Shengxia Qin Yin 2022" Art Festival

Source: Sina News. (2022, September 14). Summer Music 2022 Festival: The Beauty of Cello and Music [Photograph]. Sina.

https://k.sina.com.cn/article_1617264814_

The organization releases cello - related teaching, performance videos, and industry news on major Chinese online platforms like WeChat and Douyin, gaining over a million followers. It has extensive influence in cultivating amateur young players, popularizing music, and integrating industry resources, and is now one of China's benchmark organizations in cello education.

The third category comprises transitional groups entering the cello consumer market from folk or professional backgrounds. While these practitioners are not inherently new roles, the market economic model has gradually transformed them into key partners as "sellers" and "suppliers." Some individuals have progressed further by directly engaging in the organization and operation of the cello cultural market, thereby transitioning into the first category of market operators. The core advantage of this group lies in their professional technical resources: both practical cello performance and teaching skills, as well as the market value derived from their personal reputations. These professional practitioners synergize with market operators to jointly construct the cello cultural production system in the consumer era.

These three categories organically combine to form the main framework of the contemporary cello consumer market. As vital components of the cello cultural ecosystem, these new roles catalyzed by market mechanisms are playing increasingly active roles. Their commercial practices have not only reshaped the dissemination models of cello culture but have also objectively promoted the social popularization and expanded influence of cello art. This market-oriented development path reflects both the adaptive transformation of traditional culture in modern consumer environments and the diversified expansion of cello art's vitality.

3.3 Contemporary Communication Methods

In the context of modern mass culture, communication media have evolved from transmitting symbols to creating symbols. Newspapers, magazines, online platforms, film and television works, etc., have increasingly become direct channels for people to acquire cultural knowledge. For the dissemination of cello culture, modern media serve as both a means to transmit and promote cello culture.

To explore how modern media interacts with audiences of cello culture, the author conducted questionnaire surveys targeting two distinct groups: college students with no direct experience playing the cello and adult amateur cello learners.

In a survey of 70 university students (conducted at the author's institution), respondents were asked the following questions:

"Through which channels have you gained knowledge about the cello?"

Options:

A. Film/TV/Music recordings

B. Books/Magazines

C. Cello-related social activities

D. Internet

E. No prior knowledge about cello

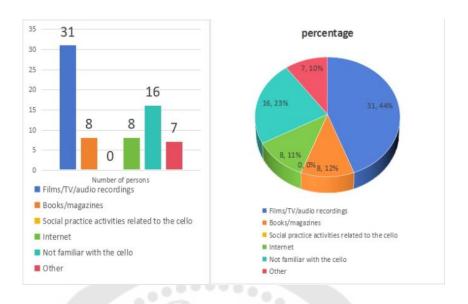
F. Other

"Through which channels have you gained knowledge about the cello?"

Table 10 Information Source Chart

Answer number	A	В	С	D	E	F
Number of persons	31	8	0	8	16	7
percentage	44.30%	11.40%	0	11.40%	22.90%	10%

Table 7



Among the 70 university students surveyed, 16 reported no prior knowledge of the cello. Of the remaining 54 participants, 31 cited films and TV shows such as Hilary and Jackie (a film about cellist Jacqueline du Pré), Departures (an Oscar-winning Japanese film with a prominent cello score), and Cello Teacher GoShu (an animated adaptation of Kenji Miyazawa's story) as their primary sources of exposure to the instrument. This group accounted for 44.3% of the total survey population. Additionally, 11.4% of participants each reported learning about the cello through books/magazines or the internet. These findings suggest that for the general public, films and television remain key channels for promoting cello culture, with most people's perceptions of the instrument shaped by these media.

Additionally, In a parallel online survey of 154 amateur cello students, participants were asked:

"What initially exposed you to the cello and motivated you to begin learning?"

Response Options:

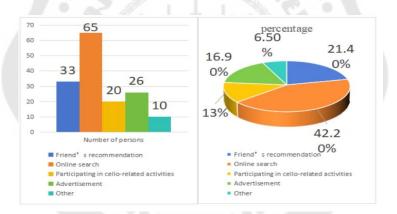
- A. Personal recommendation (friends/family)
- B. Online research
- C. Participation in cello-related events
- D. Advertising/promotional materials

E. Other (please specify)

Table 8

Answer number	A	В	С	D	E
Number of persons	33	65	20	26	10
percentage	21.4%	42.20%	13%	16.90%	6.50%

Table 9 Proportional Chart of Motivations and Channels for Learning the Cello Data



Among the 154 cello learners, 42.2% found their learning institution through online searches, the largest group. 21.4% joined via friend referrals, 16.9% learned about studios through ads, and 13% via social activities organized by training centers. Clearly, the internet is the most convenient tool for those seeking cello information. Besides official cello - related websites, new - style music schools and training classes mainly use online platforms for information release and promotion.

From the survey, it's clear that for university students without cello - learning experience, films and videos are the primary source of cello knowledge. For society - based cello learners, online media, social networks, and ads are the main channels for accessing and engaging with cello learning. These modern media play an important role in sharing cello - culture information and building cultural awareness. Ads often highlight

the cello's "elegant qualities," The internet has transformed the dissemination of cello culture through mass cultural adaptation, enabling everyone to access shared information at any time. In the context of these mass media platforms, particularly online media, the relationship between communicators and audiences has become remarkably straightforward. Audiences face no restrictions - anyone can publish, acquire, and utilize information freely. Any audience member can filter and evaluate media content, while communicators require no formal "qualification verification" to establish their identity or competence. These convenient modern media platforms have simplified cultural communication into a direct producer-consumer dynamic, consequently accelerating the dissolution of the cello's traditional cultural identity as an exclusive domain of the capitalist class under the influence of contemporary media.

3.4 Cultural Identity in the Context of Popular Culture

Popular culture, established as culture becomes a mass consumer product, signifies a shift from a production - centered to a consumption - centered social - cultural environment. Traditional culture has transcended its narrow boundaries and entered the realm of popular culture, which is characterized by consumerism, industrialization, and mediation. Urban dwellers today constantly experience the profound impact of popular culture, which offers a diversified lifestyle and subtly shapes people's thoughts, emotions, and ways of thinking, becoming an integral part of modern life.

While teaching music for a living existed in traditional society, the transformation of the cello's cultural symbol into a commodity symbol due to societal - cultural changes is a contemporary phenomenon. From a market - oriented perspective, once a cultural product enters the realm of commodity exchange, pure instrumental rationality converts any inherent differences into quantitative issues. That is, individuality and creativity are transformed into standardized products. Logically, This process bears logical parallels to the cultural integration under socialist ideology during China's early nation-building period.

Consumer culture gradually eliminates the boundary between art and life. In consumers' eyes, the cello's history, legends, sound experiences, and spiritual transcendence can all be obtained through commodity exchange. This re - establishes modern consumers' "taste" and perception of the cello, integrating it into everyday life. In the survey of 154 adult cello learners, the following question was designed to explore this phenomenon:

Survey Question:

"What are your primary purposes for learning the cello?" (Multiple selections allowed)

Options:

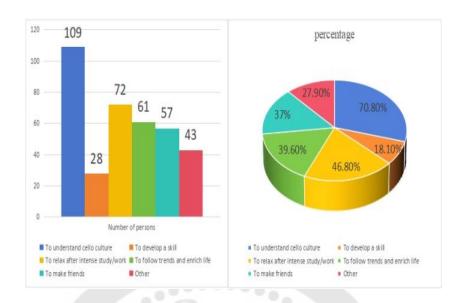
- A. To understand cello culture
- B. To acquire a professional skill
- C. For relaxation after intense study/work
- D. To follow trends and enrich lifestyle
- E. To socialize and make friends
- F. Other (please specify)

"What are your primary purposes for learning the cello?"

Table 10 Purposes of Learning the Cello Chart

Answer number	A	В	C	D	Е	F
Number of persons	109	28	72	61	57	43
percentage	70.8%	18.1%	46.8%	39.6%	37%	27.9%

Table 11 Proportional Chart of Purposes for Learning the Cello Data



In the survey of 154 cello learners, about 70.8% chose "understanding cello music culture," 46.8% for "relaxation after intense study/work," 39.6% to "follow fashion and enrich life," and 37% to "make friends," while only 18.1% selected "acquiring a practical skill," with 27.9% opting for "other" reasons, mainly "self - cultivation," "entertainment," "liking," or "pure fun." These results align with the features of consumer culture, where learning the cello is mostly for "consumption," not "accumulation" or "production." "Understanding cello culture" was the most popular choice, showing that cello - culture dissemination through consumption - oriented means effectively reaches people and helps them learn basic cello characteristics through practice. The significant numbers for "relaxation, entertainment, and fashion" represent typical "cultural consumption." In contrast, the "practical - skill" option, which has a "cultural - production" aspect, was not widely favored. This suggests that audiences mainly aim to "master and enjoy cultural resources" rather than "create cultural resources."

In a sense, the cello serves as a medium in the cultural - consumption process. Consumers, by participating, realize their cultural imagination of the cello and satisfy their inner needs in a modern social context. Cello - culture consumption also offers mass entertainment. Many social institutions now hold regular group activities. Some consumers, becoming familiar at these events, form relatively fixed groups. Yet, these are loose, entertainment - oriented groups typical of modern urban life. A few

learners persist and gain real skills, but they are in the minority. Surveys show that while many start learning the cello, not all continue. Some quit after a few classes; others attend regularly but progress slowly. Many finish beginner courses but then drop out. Thus, despite the large number of learners, many are driven by curiosity and may quit once their interest wanes. In the survey questionnaire, statistics were collected on students' perceptions of the difficulty of learning the cello:

Survey Question:

"How would you rate the difficulty level of learning the cello?"

A. Very difficult

B. Relatively difficult

C. Moderate

D. Relatively easy

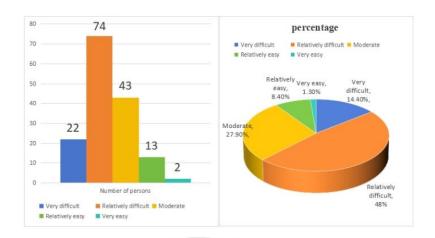
E. Very easy

"How would you rate the difficulty level of learning the cello?"

Table 12 Learners' Evaluation of Learning Difficulty Chart

Answer number	A	В	С	D	Е
Number of persons	22	74	43	13	2
percentage	14.4%	48%	27.9%	8.4%	1.3%

Table 13 Proportional Chart of Learning Difficulty Evaluation Data



The survey reveals that 62.4% of learners find the cello "very difficult" or "somewhat difficult," while only 8.4% view it as "somewhat easy" and 1.3% as "very easy." This indicates that the cello's difficulty is a key factor affecting learners' persistence. The teaching ability of cello teachers in social institutions may also influence this perception.

Upon revisiting 59 learners who provided contact details in April 2024, by December 2024, 39 had quit due to reasons like time and location, with 7 of the remaining 20 practicing regularly and 13 occasionally. This aligns with the trend of mass - culture products in the consumer age being popular but short - lived. In the market - driven cello - culture context, the teacher - student relationship lacks the strict moral bonds of traditional apprenticeships. Consumers control whether to persist and how much time to invest. To invigorate the cello - culture market, social institutions must meet consumer demands through strategies like discounts and bundled deals (e.g., "buy a cello, get free lessons") to maximize profits.

Marketers often label cello - related products and services with terms like "bourgeois," "fashionable," and "elegant" to attract consumers. In this production - and - sales model, the cello, as a cultural commodity, shares traits with other mass - culture goods. Its original cultural essence becomes increasingly subordinated to supply - and - demand relations, straying further from its intrinsic characteristics.

4.Conclusion

This chapter systematically explores the trajectory of cello art in China's localization process through three interconnected dimensions: historical development, practical application, and contemporary cultural significance.

Historically, the cello was introduced to China in the 18th century, initially as a product of Western colonial cultural transmission. Its transformation into a vehicle of professional musical education was facilitated by Russian émigré musicians. After the founding of the People's Republic of China, the cello gained artistic recognition through its integration in *model opera* soundtracks and compositions based on Chinese modal systems. In the 21st century, cross-genre fusion has further contributed to a diversified developmental path for the cello in China.

In terms of practical integration within Chinese orchestral practice, the cello has undergone a functional transformation from a foreign instrument to one deeply embedded in local musical contexts. In earlier periods, attempts were made to replace the cello with modified traditional low-pitched instruments such as the *gehu*. However, due to the cello's superior tonal range and expressive capabilities, it eventually carved out a unique localized mode of application. This established the cello's dual identity in Chinese orchestras: "retaining Western harmonic foundations while embodying Chinese tonal aesthetics" (Yan, 2018).

On the level of contemporary socio-cultural discourse, the cello has transcended its role as a mere instrument to become a medium for constructing cultural identity. Public masterclasses have promoted musical outreach, while the proliferation of music festivals and the emergence of new cultural communities have redefined the transmission pathways of traditional music. This "localization survival strategy" reflects not only China's pursuit of musical subjectivity in a globalized context but also the adaptive evolution of Western art forms within China's modernization process.

In conclusion, the localization of cello art in China is a dynamic interplay of technological adaptation, cultural negotiation, and social empowerment. Using a Western instrument as a vehicle, the process incorporates timbral transformation,

localized creation, and innovative dissemination strategies. Fundamentally, this evolution represents a three-dimensional resonance among instrumental technology, symbolic systems, and social practices. It goes beyond the superficial logic of "East-West fusion" by engaging in continual meaning-making and functional iteration. In doing so, it not only facilitates the "situated survival" of Western instruments within the Chinese context but also reconstructs paradigms of cultural hybridity in the global era—demonstrating that cultural adaptation is not a compromise of differences, but a creative process that gives rise to new cultural forms.

Sociologically, the integration of the cello into Chinese musical life reflects broader institutional dynamics and cultural policy interventions. From its association with elite conservatory training to its incorporation into grassroots educational initiatives and public music festivals, the cello operates as both a tool of cultural capital and a medium of social inclusion. This evolution reveals how musical instruments can serve as sociocultural instruments of empowerment, negotiation, and identity politics within rapidly modernizing societies.

CHAPTER 5

CONCLUSION

This study examines the localization and integration of the cello within Chinese national orchestras, highlighting the ways in which cultural adaptation has influenced the evolution of musical instruments, performance practices, and orchestral structures. Through historical and ethnomusicological analysis, the research demonstrates that the cello's introduction into Chinese orchestras was not simply the adoption of Western symphonic elements, but rather a strategic response to a structural gap in traditional Chinese ensembles, where low-pitched instruments were notably underrepresented. Over time, the cello has not only been accepted and assimilated but has also become a vital component of Chinese orchestral music, contributing to the development of new performance traditions and inspiring innovations in instrument design.

While ongoing debates question the incorporation of Western instruments into traditional Chinese music, the case of the cello illustrates that cultural exchange does not result in the loss of tradition, but rather in its reinvention and hybridization. Despite the creation of new national bass instruments, the cello maintains a dominant presence, underscoring its enduring influence on Chinese musical aesthetics and composition.

Looking ahead, the cello's role in Chinese national orchestras is expected to remain significant, particularly as contemporary orchestration and global musical influences continue to shape the evolution of Chinese music. This study emphasizes the importance of understanding cultural adaptation in music, as it not only preserves traditional elements but also fosters innovation and growth within the musical landscape.

Discussion

1. The Factors Behind the Inclusion of the Cello in Chinese Ethnic Orchestras

The art of the orchestra can be regarded as an art of sound, and the impact of orchestral music is realized through multilayered and three-dimensional sound techniques. This requires the cohesive interaction of the high, middle, and low sections within the orchestra to create a complete sound structure. However, from the

perspective of the thousands of years of development of Chinese traditional instruments, most of the evolved traditional instruments belong to the mid-to-high melodic range. In Chinese traditional instrumental ensembles, greater emphasis is placed on the melodic line, with the sections primarily characterized by their supportive roles. There is an absence of functional harmony, and there are no bowed string instruments capable of playing bass or accompaniment roles. As a result, Chinese orchestras have historically lacked the depth and richness of the bass range.

The bass section plays an equally crucial role in the orchestra as the melodic section. It can be considered the foundation and core of the ensemble. Essentially, all rich harmonies require the support of the bass. Without the bass, a musical composition would lack strength and fail to effectively convey the emotions intended by the composer. Only with the strong support of the bass section can the middle and high registers fully utilize their tonal penetration, thereby enhancing the stability and cohesion of the music. By incorporating bass instruments into the low-register section and combining them with other sections, the orchestra can achieve clear tonal contrasts, distinct sound effects, and a strong sense of rhythm when performing musical works. The inclusion of the cello in Chinese traditional wind ensembles can be attributed to two primary factors:

1.1 The Limitations of Traditional Ethnic Ensembles

Since the modern era, traditional Chinese ethnic ensembles have generally consisted of four groups of instruments, each assuming different musical functions:

String Instruments: The string section, centered around the erhu, gaohu, and zhonghu, produces long, sustained tones through the friction of silk strings. These instruments, known for their graceful melodic expressiveness, typically carry the main melodic line and enhance the musical texture through polyphonic layering. However, the erhu family's range is concentrated in the high and middle registers, and the varying pitch standards of different types of erhus make it difficult to form stable bass support.

As a result, these instruments are generally used in the middle and high registers within the ensemble.

Plucked Instruments: Plucked instruments such as the pipa, guzheng, ruan, and yangqin stand out as the most striking section in the ethnic ensemble. The crisp, percussive timbre can both convey nimble melodic lines and weave intricate accompaniment patterns. However, these instruments have short sustain, weak volume, and lack a systematic division of high and low registers, often serving more as decorative elements rather than substantial bass contributors.

Wind Instruments: The wind section, including the sheng, dizi, and suona, serves as the breath and foundation of the ensemble. The sheng's sustained harmony is stable, the dizi's bright timbre is penetrating, and the suona's high-pitched sound is highly expressive. Together, they create a full, three-dimensional sound field, playing a key role in maintaining the acoustic balance of the ensemble.

Percussion Instruments: The large drum controls the rhythmic framework, while the chime bells convey an elegant atmosphere, and various gongs and cymbals add dramatic tension. While these percussion instruments do not contribute to the melody, they are masters of color, enhancing the emotional atmosphere and giving vitality to the music through changes in rhythm and timbre.

From the structure outlined above, it is evident that Chinese traditional ethnic ensembles, over the course of their long history, have developed strong national characteristics. At the same time, they have also revealed some inherent limitations and shortcomings. Although Chinese traditional instruments are diverse in variety and rich in unique timbres, most instruments have limited pitch ranges, with a heavier emphasis on high and middle registers. Traditional low-register instruments have long been underrepresented, and there is little historical record of specialized low-register instruments in the history of Chinese ethnic music. Therefore, the longstanding limitations of traditional Chinese ethnic ensembles have been one of the key factors that contributed to the gradual inclusion of the cello in these ensembles.

1.2 The Influence of Western Symphony Orchestras on Chinese Ethnic Ensembles

After the founding of the People's Republic of China, Western culture had a profound impact on the ideas of Chinese intellectuals, and the rising national consciousness of the Chinese people led them to actively seek a cultural transformation from "traditional China" to "modern China." Against this backdrop, the maturation and development of Western symphony orchestras in China introduced the scientific concept of "instrumental systematization." This encouraged the reform and reorganization of Chinese ethnic orchestras in the post-1949 era, gradually moving towards standardization and, by referencing the orchestral sound structure of Western symphonies, striving for balance and harmony across the high, middle, and low registers.

However, Chinese traditional instruments face certain limitations in terms of pitch range, timbre, and integration, making it difficult to fully meet the requirements of "systematization." To align with the aesthetic standards of Western orchestras in terms of sound characteristics and to achieve a broader pitch range and greater balance between the sections, the incorporation of the cello into ethnic orchestras became a key measure for enhancing the overall sonic effect of the ensemble. This not only enriched the bass section of the orchestra, making the sound more full-bodied and layered, but also improved the overall expressive power and artistic impact of the orchestra.

Thus, it is evident that the scientific concepts and sound structures of Western orchestras have had a particularly significant influence on the establishment and subsequent development of Chinese ethnic orchestras. They provided a pathway for the inclusion of the cello, allowing for the integration of both Chinese and Western instruments, each complementing the other, and collectively advancing the development of Chinese ethnic music.

2. Issues in the Improvement of Ethnic Bass String Instruments

The bass section serves as the foundation of an orchestra. If a musical composition is likened to a grand building, the bass section represents its foundation; without it, the music would be hollow and weak. The bass section not only plays a unifying role within the orchestra, enhancing the cohesion of the high and middle sections' timbres, but it also imparts a sense of depth to the music. Additionally, it can serve as a solo voice, conveying profound and distant musical imagery. From a harmonic perspective, the bass is a crucial attribute in determining the mode and tonality, while also playing a vital role in shaping harmony and harmonic rhythm, thus driving the music's development. In particular, bass string instruments can conveniently produce sustained harmonic tones, similar to the effect of a piano pedal, resulting in a rich and resonant timbre. Furthermore, the bass section stabilizes the rhythm in the orchestra, with the cello and double bass often playing the same rhythmic patterns together, providing rhythmic support for the piece. Thus, the importance of bass string instruments within the orchestra is evident.

At the inception of establishing Chinese ethnic orchestras, Western instruments such as the cello and double bass were borrowed to serve as the bass string instruments. However, in an effort to overcome this reliance, there was a search for a bass string instrument that would have a Chinese traditional ethnic lineage and embody the distinctive characteristics of Chinese music in both its design and timbre. Over the past half-century, numerous modified ethnic bass string instruments have been created, with dozens of variations emerging. However, critics, including conductors, composers, and performers, have offered conflicting opinions regarding the sound quality of these modified instruments. Currently, these improved instruments still exhibit certain issues related to craftsmanship and sound quality.

2.1 Issues in Craftsmanship

The modified ethnic bass string instruments are primarily handmade on an individual or small-scale basis and lack a comprehensive manufacturing process or production line. As a result, their production is limited, and the supply is insufficient to meet the demand of orchestras in the short term. For instance, the Zhongding Qinqin, developed by Professor He Xirui of Sichuan Conservatory of Music, achieved good results in chamber music competitions. However, due to the existence of only a single completed instrument, it was unable to participate in evaluations for ethnic orchestras, thus missing a valuable opportunity to showcase its characteristics.

A significant number of modified instruments resemble the cello in shape but lack distinctive design features. Ultimately, a musical instrument is an artistic object and a product manufactured by production enterprises for circulation in society. It should be a harmonious combination of both form and sound quality. The author believes that industrial design methods should be applied to the improvement of ethnic bass string instruments, providing a new interpretation that unites artistic and manufacturing technologies.

2.2 Issues in Sound Quality

Early efforts to modify ethnic bass string instruments focused primarily on their appearance and pitch range, without a comprehensive understanding of the overall volume and timbre balance required for the orchestra. As a result, issues such as low volume, insufficient richness of tone, and poor sound integration still persist. From an acoustic perspective, a well-designed instrument typically consists of four essential components: the vibrating body, resonating body, excitation body, and regulating device. Among these, the resonating body has the most significant influence on the instrument's volume and timbre. In other words, to improve the sound quality of bass string instruments, special attention must be given to the design and improvement of the resonating body, specifically in terms of the relationship between its shape, materials, and tonal qualities.

The body of the instrument serves as the resonating chamber for the bass string instrument. The size of the chamber (the volume of the cavity) and the material, area, and thickness of the soundboard (or membrane) directly affect the instrument's volume and timbre. A review of Western violins reveals that larger body sizes are more conducive to low-frequency response, producing deeper tones.

Additionally, a larger soundboard area helps to push more air through vibrations, achieving optimal frequency response and maximum volume.

In my view, a bass string instrument with distinct "Chinese characteristics" should possess a sufficiently wide dynamic range, with clear and responsive articulation and a well-balanced tonal quality across both high and low registers. It should be capable of integrating effectively with other instruments in the Chinese ethnic orchestra. While ensuring sound quality, its design should also conform to principles of ergonomics, allowing for comfortable and intuitive control by the performer. At the same time, it must embody national characteristics and reflect the aesthetic sensibilities of the East.

Furthermore, in the future development of ethnic bass string instruments, it is essential to move beyond preconceived notions shaped by the timbres of the cello and double bass. Instead, a combination of acoustic measurement and subjective evaluation methods should be employed to analyze the timbral characteristics of different registers and instrument combinations within the ethnic orchestra. This approach will help identify the tonal qualities required of a truly Chinese ethnic bass string instrument.

Implications of the Study

This study makes a significant contribution to the broader understanding of musical hybridity and cultural adaptation, illustrating that the integration of the cello into Chinese orchestras represents not a case of cultural dominance but one of mutual adaptation. The findings indicate that the role of Western instruments in Chinese orchestras will continue to evolve, driven by musical necessity, artistic expression, and the ongoing influence of global musical interactions.

Suggestions

1. Future Research Directions

Comparative Studies on Musical Adaptation: Future research could engage in comparative analyses of the cello's adaptation in China, contrasting it with its role in

other East Asian traditions, such as Japan and Korea, where Western orchestration has similarly influenced traditional ensembles.

Exploring the Future of Chinese Bass Instruments: Further investigation should explore the development of indigenous Chinese bass instruments and examine whether advancements in instrument-making technologies could lead to the eventual replacement or enhancement of the cello's role within Chinese orchestras.

Expanding Research on Public Perception and Education: While this study has focused on students' perspectives on the cello, future research could extend to examining public perceptions, governmental policies on music education, and the training of conservatory students in Chinese orchestras.

2. Practical Implications for Chinese National Orchestras

Encouraging Innovative Compositions: Composers should be encouraged to continue blending Western and Chinese musical elements in contemporary compositions, using the cello as a means to explore modernized expressions of traditional Chinese music.

Advancing Instrument Innovation: Although the bass gehu and bass laruan have not fully replaced the cello, further refinements in instrument acoustics and playability may eventually lead to the creation of a uniquely Chinese bass instrument that matches the cello's versatility.

Balancing Cultural Preservation and Innovation: Chinese orchestras should strive to preserve traditional sounds while embracing the advantages of Western orchestration, ensuring that cultural identity is not lost but instead expanded upon.

This research reaffirms that musical adaptation is not a process of cultural loss but one of transformation. The cello's trajectory in China stands as a testament to the dynamic nature of musical traditions, demonstrating that cultural exchange can result in artistic enrichment rather than cultural erosion. As Chinese national orchestras continue to evolve, the cello is likely to remain a crucial instrument, bridging tradition and modernity while contributing to the ever-expanding landscape of Chinese musical artistry.

Research Prospect

Future research could adopt cross-cultural research paradigms to systematically investigate the topic "The Nationalization and Integration of the Western Cello in China," with a primary focus on the following three dimensions:

1.Research on Community Music Practices and Social Capital Development: Focusing on the cello's involvement in community music activities, such as senior citizen orchestras and youth orchestras, this research will employ sociological methods to analyze the role of the cello as a cultural medium in fostering social connections and enhancing collective efficacy. The study may utilize both quantitative and qualitative approaches to explore how cello-related activities influence the construction of participants' social networks, cultural identity, and community cohesion.

- 2. Research on Communication and Business Model Innovation in the Digital Era: In light of the growing trend of "Internet + music" integration, communication studies and cultural industry research methods will be employed to investigate the digital dissemination channels, innovations in online education systems, the evolution of virtual performances, and the development of new business models for the cello. This research will focus on how emerging technologies are reshaping the creation, distribution, and consumption of cello art, examining the intersection of technology and musical practice.
- 3. Research on the Construction of a Nationalized Education System: From the perspective of music pedagogy, this research will explore the establishment of a "nationalized cello performance" curriculum with Chinese characteristics. The study should address key questions such as: how to incorporate national music elements into cello teaching syllabi; how to develop specialized courses that integrate regional musical genres; and how to cultivate versatile musicians skilled in both Western performance techniques and Chinese musical expressions. Action research methodologies may be used to validate the effectiveness of curriculum designs through teaching experiments.

This research prospect emphasizes the potential for future studies to explore how the cello can be further integrated into China's cultural and educational landscapes, contributing to both the evolution of Chinese music and the global dialogue on cultural exchange.



REFERENCES

- Aslan, U., & Karahasano**ğ**lu, S. (2022). Organonscape, geography, and aural spaces of *kemençe* in and around Trabzon. *Ethnomusicology Forum*, *31*(2), 260–282. https://doi.org/10.1080/17411912.2022.2058577
- Bagaskara, A., Syah Sinaga, F. S., Audhyati, A., & Maulana, A. (2024). Anthropology of Music: A Review of History, Theory, and Development. *Musikolastika: Jurnal Pertunjukan Dan Pendidikan Musik*, 6(2), 185–201. https://doi.org/10.24036/musikolastika.v6i2.194
- Berry, J. W. (2003). Conceptual approaches to acculturation. *Acculturation: Advances in Theory, Measurement, and Applied Research.*, 17–37.

 https://doi.org/10.1037/10472-004
- Bi, H. (2020). A Study of Chinese Piano Works from the Perspective of Ethnomusicology.

 *Region Educational Research and Reviews, 2(2), 1.

 https://doi.org/10.32629/rerr.v2i2.90
- Brinkman, A., & Huron, D. (2021). Cross-Cultural Corpus Creation and Statistical Tendencies in Music. 14–22. https://doi.org/10.1145/3469013.3469016
- Campbell, P. S. (2003). Ethnomusicology and Music Education: Crossroads for knowing music, education, and culture. *Research Studies in Music Education*, *21*(1), 16–30. https://doi.org/10.1177/1321103x030210010201
- Chan, K. T., & Tran, T. V. (2021). Applied Cross-Cultural Data Analysis for Social Work. In Oxford University Press eBooks. Oxford University Press.

 https://doi.org/10.1093/oso/9780190888510.001.0001
- Chen, X., Chuangprakhon, S., & Liu, R. (2024). Tianqin: Evolutionary Perspectives on the Culture of Chinese Folk Musical Instruments in Playing Techniques and Cultural Change. *EVOLUTIONARY STUDIES in IMAGINATIVE CULTURE*, 58–69. https://doi.org/10.70082/esiculture.vi.671
- Феофанова, H. A. (2019). ABOUT SOME INTERPRETATION FEATURES OF THE

- "SEVEN TUNES HEARD IN CHINA" CYCLE BY BRIGHT SHENG. *Music Journal of Northern Europe*, *3*(19), 25–39. https://doi.org/10.61908/2413-0486.2019.19.3.25-39
- Guo, F. (2023). The Integration and Development of National Instrumental Music from the Perspective of Multicultural Music Taking Guzheng as an Example. Communications in Humanities Research, 2(1), 284–293. https://doi.org/10.54254/2753-7064/2/2022316
- Hesselink, N. (2021). Western Popular Music, Ethnomusicology, and Curricular Reform: A History and a Critique. *Popular Music and Society*, *44*(5), 558–578. https://doi.org/10.1080/03007766.2021.2000280
- Hidayat, R., & Patricia Wulandari. (2022). Data Analysis Procedures with Structural Equation Modelling (SEM): Narrative Literature Review. *Open Access Indonesia Journal of Social Sciences*, 5(6), 859–865. https://doi.org/10.37275/oaijss.v5i6.142
- Jin, X., & Kim, H. (2023). The Incorporation of Chinese Traditional Elements in "Chinese Style" Pop Music. *Yixin Publisher*, 1(4), 19–34.

 https://doi.org/10.59825/jcs.2023.1.4.19
- Kang, S., Yoo, H., C. Victor Fung, & Koji Matsunobu. (2024). Virtual Musical Instruments in Music Classrooms: Performing with East Asian Music Cultures. *Music Educators Journal*, 110(3), 28–36. https://doi.org/10.1177/00274321241237403
- Krumhansl, C. (2000). Cross-cultural music cognition: cognitive methodology applied to North Sami yoiks. *Cognition*, 76(1), 13–58. https://doi.org/10.1016/s0010-0277(00)00068-8
- Kusnick, J., Lichtenberg, S., Wiegreffe, D., Huber-Sannwald, E., Nehren, U., & Jänicke, S. (2024). Visual analysis of diversity and threat status of natural materials for musical instruments. Frontiers in Environmental Science, 12.
 https://doi.org/10.3389/fenvs.2024.1406376
- Kwon, C.-Y., Kim, H., & Kim, S.-H. (2024). The Modernization of Oriental Music Therapy: Five-Element Music Therapy Combined with Artificial Intelligence. *Healthcare*, 12(3), 411–411. https://doi.org/10.3390/healthcare12030411

- Li, G., & Wang Hongtao. (2023). From the history of Chinese musical art. *OOO Zhurnal Voprosy Istorii*, 2023(12-3), 196–201.

 https://doi.org/10.31166/voprosyistorii202312statyi65
- Li, J. (2020). The Inheritance Form of Chinese Traditional Music under College Music Education System. *Region Educational Research and Reviews*, *1*(2), 6. https://doi.org/10.32629/rerr.v1i2.69
- liu, X., & Liu, X. (2009). *History of Chinese Cello Art*. Shanghai Conservatory of Music Press.

 https://oversea.cnki.net/KCMS/detail/detail.aspx?dbcode=CJFD&dbname=CJFD2

 002&filename=HZWH200204016&uniplatform=OVERSEA&v=THc39Mo6WmP48jW

 VZEHXHBI0YeUKeojB6bjzXXr2B0-6xYeD76D2KPYslJYU1Dds
- Liu, Z. (2024). Cross-cultural Communication and Integration of Guzheng Music under the Perspective of Modern Music Culture. *Arts, Culture and Language*, 1(5). https://doi.org/10.61173/jhj30c59
- Lu, J. (2024). Homogenization: Reasons for the Limited Development of Chinese

 Traditional and Minority Music. *Communications in Humanities Research*, *50*(1),

 100–106. https://doi.org/10.54254/2753-7064/50/20242530
- Ma, Y., & Chen, Y. (2024). Exploring the Model of Contemporary Chinese Ethnic Musical Instrument Improvement Mechanisms: Based on Grounded Theory. *SAGE Open*, 14(1). https://doi.org/10.1177/21582440241235018
- Pekka Jalkanen. (1989). Alaska, Bombay ja Billy Boy.
- Peng, W. (2023). Research on the Cross-cultural Narrative Effect of Traditional Chinese Music. *Asia-Pacific Journal of Humanities and Social Sciences*, 3(2), 058–065. https://doi.org/10.53789/j.1653-0465.2023.0302.008
- Ping, L., & Ping, W. S. (2024). The Influence of Intercultural Communication Competence on College Students' English Language Learning Motivation at Jiangxi, China: Mediated by Cultural Exposure. *International Journal of Academic Research in Business and Social Sciences*, 14(11). https://doi.org/10.6007/IJARBSS/v14-i11/23695

- Poudel, P. P. (2021). Classification of Music Instruments: An overview. *International Research Journal of MMC*, 2(4), 1–10. https://doi.org/10.3126/irjmmc.v2i4.41548
- Qian, R. (2001). Chinese Violin Music. Hunan Literary Publishing House.
- Rehding, A. (2016). Instruments of Music Theory. *Music Theory Online*, 22(4). https://doi.org/10.30535/mto.22.4.4
- Savage, P. E., Brown, S., Sakai, E., & Currie, T. E. (2015). Statistical universals reveal the structures and functions of human music. *Proceedings of the National Academy of Sciences*, *112*(29), 8987–8992. https://doi.org/10.1073/pnas.1414495112
- SHI, J. (2023). COMPARATIVE ANALYSIS OF THE FEATURES OF THE CELLO TEACHING METHODOLOGIES IN MUSIC UNIVERSITIES IN RUSSIA AND CHINA.

 YHUBEPCUMEMCKUŬ HAYYHЫЙ ЖУРНАЛ*, 73.

 https://doi.org/10.25807/22225064_2023_73_90
- Shi, N., & Wang, Y. (2020). Symmetry in computer-aided music composition system with social network analysis and artificial neural network methods. *Journal of Ambient Intelligence and Humanized Computing*. https://doi.org/10.1007/s12652-020-02436-7
- Stevens, C. (2004). Cross-cultural studies of musical pitch and time. *Acoustical Science and Technology*, 25(6), 433–438. https://doi.org/10.1250/ast.25.433
- Stevens, C. J. (2012). Music Perception and Cognition: A Review of Recent Cross-Cultural Research. *Topics in Cognitive Science*, *4*(4), 653–667. https://doi.org/10.1111/j.1756-8765.2012.01215.x
- Syun, Y. (2024). Evolution of Piano Education in China: Analysis of Socio-Cultural Impact and Prospects for Development. *NATIONAL ACADEMY of MANAGERIAL STAFF of CULTURE and ARTS HERALD*, 1. https://doi.org/10.32461/2226-3209.1.2024.302104
- Trehub, S. E., Becker, J., & Morley, I. (2015). Cross-cultural Perspectives on Music and Musicality. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 370(1664), 20140096–20140096. https://doi.org/10.1098/rstb.2014.0096
- Wang, C. (2024). Practical Strategies of Ethnomusicology Application

- from the Cross cultural Perspective. *Research and Commentary on Humanities* and Arts, 2(3). https://doi.org/10.18686/rcha.v2i3.4113
- Xia, Y. (2003). Representations of Music and Cultural Studies in Cross-Cultural Perspective
 Re-reading The Great Vision of Music Anthropology and Beyond. *Music Research*, 1, 97–100.
- XU, D. (2019). Research on music culture personalized recommendation based on factor decomposition machine. *Personal and Ubiquitous Computing*, 24(2), 247–257. https://doi.org/10.1007/s00779-019-01343-9
- Xu, F. (2024). An Analysis of the Compositional Techniques of Guo Wenjing's Ba. *Arts*Culture and Language, 1(10). https://doi.org/10.61173/gn312982
- Yalong, Y. (2021). DEVELOPMENT OF CELLO SCHOOL IN CHINA. CREATIVE AND PEDAGOGICAL ACTIVITIES OF WANG LIANSAN AND SITU ZHIWEN. *Arts Education and Science*, 1(2), 113–120. https://doi.org/10.36871/hon.202102014
- Yan, Y. (2018). The activities of the Chinese orchestras of the traditional instruments of the new type in the 1960s 1970s. *Problems of Interaction between Arts Pedagogy and the Theory and Practice of Education*, 49(49), 198–211. https://doi.org/10.34064/khnum2-49.14
- Yang, W. (2025). The Evolution and Integration of the Chinese Dulcimer: A Study of Cross-Cultural Musical Fusion. *Communications in Humanities Research*, 62(1), 143–155. https://doi.org/10.54254/2753-7064/2025.20902
- Yaping, W. (2024). FROM THE HISTORY OF THE FIRST CHINESE CELLISTS' TRAINING AT THE MOSCOW CONSERVATORY (based on archived materials). *Arts Education and Science*, 1(38), 97–101. https://doi.org/10.36871/hon.202401097
- Yingluo, W. (2023). The development of China piano music based on the cultural differences between China and the West. OOO "Zhurnal "Voprosy Istorii," 2023(3-2), 192–199. https://doi.org/10.31166/voprosyistorii202303statyi47
- Yuan, Q., & Ong, W. B. (2024). An Analysis of Elementary Musical Creativity Contents in China. *International Journal of Art and Design*, 8(2), 18–31. https://doi.org/10.24191/ijad.v8i2.1875

- Zamotin, M. P. (2020). Music as a Research Object of Cultural Anthropology by George Herzog. *Discourse*, *6*(1), 49–61. https://doi.org/10.32603/2412-8562-2020-6-1-49-61
- Zhao, Y. (2024). Harmonizing Tradition and Innovation: Exploring Cross-cultural Elements in Contemporary Chinese Piano Compositions. *Pacific International Journal*, 7(2), 80–84. https://doi.org/10.55014/pij.v7i2.571





Appendix A
Questionnaire

The Public's Perception of the Cello

Dear Respondent,

This questionnaire aims to collect data to assess the public's recognition and opinions regarding the cello. The survey is solely for academic purposes; please rest assured that all information provided will be kept confidential. Thank you for your cooperation.

Part 1. Demographics	Part	1.	Dem	ogr	aph	iics
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= ·	
	1. Your gender
☐ Male ☐ Female	
	2. Age:
	3. How long have you been learning the cello?
	4. What initially exposed you to the cello and
motivated you to begin learning?	
Response Options:	
□A. Personal recommendation (fr	iends/family)
☐B. Online research	
☐C. Participation in cello-related	events
☐D. Advertising/promotional mate	erials
☐E. Other (please specify)	
	5. Have you purchased your own cello? If so, at what
price?	
	6. Which cello pieces are you currently able to play?
	7. Do you frequently participate in cello-related
activities?	
	8.
	9. □B. Occasionally
	10. □C. Rarely / Almost never
	11. What is your opinion on using the cello to perform

Chinese folk music?

	12.	□A. Strongly approve
	13.	☐B. Somewhat approve
	14.	☐C. Neutral/No preference
	15.	□D. Somewhat disapprove
	16.	□E. Disapprove
	17. W	hat are your primary purposes for learning the
cello? (Multiple selections allowed	d):	
	18.	☐A. To understand Western classical music
	19.	☐B. To acquire a professional skill
	20.	☐C. For relaxation after intense study/work
	21.	□D. To follow trends and enrich life
experiences		
	22.	☐E. To socialize and make friends
	23.	□F. Other:
	24. H	ow would you rate the difficulty level of learning
the cello?	24. H	ow would you rate the difficulty level of learning
the cello?	24. H	ow would you rate the difficulty level of learning ☐A. Very difficult
the cello?		H-/ 6:/
the cello?	25.	□A. Very difficult
the cello?	25. 26.	□A. Very difficult □B. Somewhat difficult
the cello?	25. 26. 27.	□A. Very difficult □B. Somewhat difficult □C. Moderate
the cello?	25.26.27.28.29.	□A. Very difficult □B. Somewhat difficult □C. Moderate □D. Relatively easy
the cello? music culture are you familiar with	25. 26. 27. 28. 29. 30. Be	□A. Very difficult □B. Somewhat difficult □C. Moderate □D. Relatively easy □E. Very easy esides the cello, which aspects of Western
	25. 26. 27. 28. 29. 30. Be	□A. Very difficult □B. Somewhat difficult □C. Moderate □D. Relatively easy □E. Very easy esides the cello, which aspects of Western
	25. 26. 27. 28. 29. 30. Bo	□A. Very difficult □B. Somewhat difficult □C. Moderate □D. Relatively easy □E. Very easy esides the cello, which aspects of Western tiple selections allowed)
	25. 26. 27. 28. 29. 30. Bo	□A. Very difficult □B. Somewhat difficult □C. Moderate □D. Relatively easy □E. Very easy esides the cello, which aspects of Western tiple selections allowed) □A. Classical music
	25. 26. 27. 28. 29. 30. Both? (Mull 31. 32.	□A. Very difficult □B. Somewhat difficult □C. Moderate □D. Relatively easy □E. Very easy esides the cello, which aspects of Western tiple selections allowed) □A. Classical music □B. Symphony

36. Currently, how much time can you devote to daily

cello practice?

37. _____ (Please fill in the duration)

38. If you're willing, please leave your email or other

contact information:_____



Appendix B
Interviewees of Focus Group

Table A. List of Focus Group Interviewees

Table B. Semi Structured Interview INTERVIEW QUESTIONS

- 1. Where do you know the cello from?
- 2. What do you know about the cello?



Tea-Picking Ballad

Anonymous

Arranged by ShaoQian MO







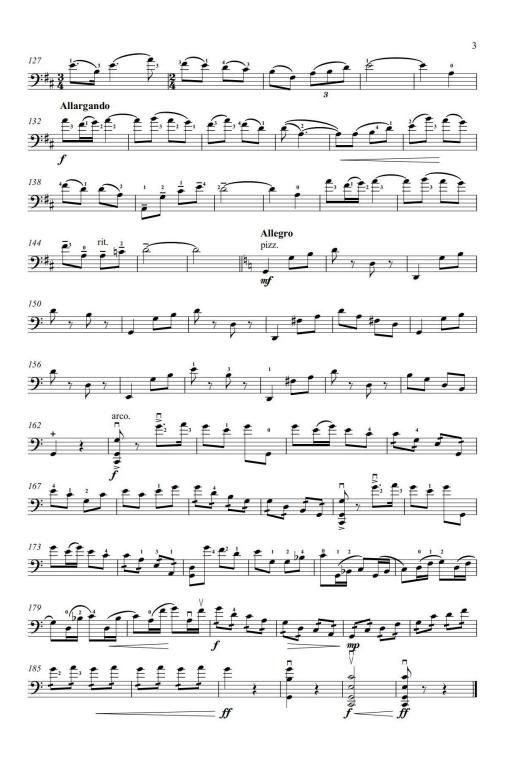
Children of the Red River

Anonymous

Arranged by ShaoQian MO







Festival of the Tianshan Mountains

Anonymous

Arranged by ShaoQian MO









The Song of Saliha

Anonymous

Arranged by ShaoQian MO









Northwest Folk Dance

Anonymous

Arranged by ShaoQian MO



