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Research on Strategies for Improving the Cross-Cultural Adaptability of International Students Studying in China

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Abstract: This study breaks through the one-dimensional analysis paradigm of traditional cross-cultural adaptation research and constructs a three-dimensional analysis framework of "technology-space-institution" to systematically reveal the deep adaptation dilemmas faced by international students studying in China. The group of digital natives encounters three contradictions: virtual social dependence and physical space dislocation, algorithmic cognitive solidification and technological paradox, as well as institutional rigidity and elastic demand. Through mixed research, it is found that the generation of adaptability is systematically restricted by the inclusiveness of digital infrastructure, the spatial distribution of educational resources, and the openness of social networks. Accordingly, a collaborative strategy system is proposed, and mechanisms such as hierarchical language support, intelligent demand perception, and digital social navigation are designed to promote cross-cultural adaptation from passive adjustment to active creation. The study demonstrates the construction path of the "adaptive ecosystem" and emphasizes the synergistic effect of technological empowerment, spatial reconstruction, and institutional innovation to achieve a dynamic balance between instrumental rationality and humanistic values. This not only provides a practical framework for universities to optimize support services for international students but also expands new dimensions for the theory of civilized dialogue in the digital age.

Keywords: International students studying in China; Cross-cultural adaptability; Collaborative strategy; Adaptive ecosystem; Digital technology.

I. INTRODUCTION

In the context of the accelerated internationalization of global higher education, the cross-cultural adaptation of international students has become a key indicator for measuring a country's educational soft power and the effectiveness of civilized dialogue. As the world's third-largest destination country for international students, China has attracted more than 500,000 international students from over 200 countries and regions in recent years under the promotion of the "Study in China" program. The challenges of cultural adaptation hidden behind the growth in scale have also shown a trend of complexity. Existing research mostly focuses on surface-level adaptation dilemmas such as language barriers and culture shock, but fails to fully respond to the systematic impacts of era variables, such as the reconstruction of social models by digital technologies and the acceleration of the transformation of the educational ecosystem, on the cross-cultural adaptation mechanism. This theoretical lag has led to the practical dilemma of existing support strategies, which can only "address the symptoms rather than the root causes" - there has always been a structural tension between the standardized services provided by educational institutions and the diversified and dynamically evolving needs of international students.

This study breaks through the traditional linear analysis framework of "cultural differences-adaptation outcomes". Based on the interdisciplinary perspectives of the philosophy of technology, spatial sociology, and educational ecology, it

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constructs a theoretical model of the "adaptive ecosystem", takes international students studying in China as the research object, and deeply analyzes the generation logic and improvement path of their cross-cultural adaptability. Through empirical research, it is found that the adaptation dilemmas of international students have evolved from obvious cultural conflicts into three deep-seated contradictions: Firstly, there is a spatial dislocation between the virtual social dependence of the digital native group and the physical space orientation of the traditional education support system. Secondly, there is a technological paradox between the cultural cognitive solidification strengthened by the algorithm recommendation system and the dynamic adjustment ability required for cross-cultural communication. Thirdly, there is a policy gap between the rigid management logic of institutional design and the elastic response mechanism required for adaptation strategies. The intertwined effects of these contradictions have elevated the cultural adaptation process from individual psychological adjustment to a problem of the coordinated evolution of technology, space, and institutions.

The innovative value of this paper is reflected in both theoretical and practical dimensions. At the theoretical level, a three-dimensional analysis framework of "technology-space-institution" is proposed to reveal the constituent elements and action mechanisms of cross-cultural adaptability in the digital age. At the practical level, a collaborative strategy system including modules such as hierarchical language support, dynamic demand response, and digital ecological integration is designed, providing an operation guide for universities to construct a precise and forward-looking adaptability support mechanism. This study aims to provide new theoretical tools and practical paradigms for the internationalization of higher education and help build a more resilient ecological environment for civilized dialogue.

II. THE HISTORICAL EVOLUTION OF CROSS-CULTURAL ADAPTATION THEORY

The origin of cross-cultural adaptation research can be traced back to the beginning of the 20th century. In 1903, the United States' population statistics revealed that immigrants accounted for an excessively high proportion among hospital patients, which sparked research interest in the adaptation issues of immigrants. Early research mainly focused on the mental health of immigrants, believing that the difficulties immigrants faced in adapting to a new cultural environment were an important cause of their psychological problems. By the end of the 1970s, with the increase in the mobility of international students, researchers began to pay attention to the stressors arising from cross-cultural contacts and the resulting psychological problems, such as anxiety and depression. During this period, the research gradually expanded from the immigrant group to the international student group, marking the initial formation of cross-cultural adaptation research.

In 1955, Lysgaard put forward the U-curve hypothesis, believing that cross-cultural adaptation is a dynamic process that starts with excitement and gradually adapts after experiencing a crisis [1]. On this basis, Oberg proposed the concept of culture shock and divided the adaptation process into the honeymoon period, crisis period, recovery period, and adaptation period [2]. Gullahorn further expanded it into the W-curve adaptation model, adding the adaptation stage of returning to the original cultural environment [3]. These models have provided an important perspective for understanding the psychological process of cross-cultural adaptation. However, their limitation lies in overemphasizing universality and ignoring the influence of individual differences and cultural backgrounds. In the mid-1980s, cross-cultural adaptation research entered its golden age, with research methods and scopes continuously expanding to cover various groups such as immigrants, international students, and refugees. During this period, researchers began to construct systematic theoretical frameworks. Berry proposed the acculturation strategy, believing that the adaptation strategies of sojourners in a new cultural environment can be divided into four attitudes: integration, separation, assimilation, and marginalization. Sojourners who choose the integration strategy have the lowest psychological stress, while those who choose the marginalization strategy have the highest psychological stress [4]. This theoretical framework emphasizes the diversity of cultural adaptation strategies and provide a theoretical basis for subsequent research.

In recent years, the wave of digitalization has promoted the innovation of theoretical paradigms. Dervin's liquid adaptation theory emphasizes how digital technologies reconstruct the formation mechanism of cultural identity. Empirical research shows that the "third cultural space" created by social media has significantly changed the traditional adaptation path ^[5]. These cutting-edge explorations mark that the research focus has shifted from "problem-solving" to "capacity-building". Research on cross-cultural adaptation in the Chinese academic community started relatively late but shows distinct characteristics of a practical orientation. Early research (2000-2015) mainly focused on the analysis of the manifestations of cultural conflicts. Through qualitative research, Chen Xiangming found that the phenomenon of social withdrawal among international students caused by the misinterpretation of the "concept of face" was widespread ^[6]. With the advancement of the Belt and Road Initiative, the Ministry of Education's report (2022) pointed out that the assimilation management ignores

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the differences in cultural capital, resulting in 42% of South Asian students falling into "institutional loneliness". Despite the progress made in research, there are still three theoretical disconnections: Firstly, the assumed technological inclusiveness in the liquid adaptation theory has an explanatory gap with the reality of digital stratification in China (such as the digital skills gap among African international students). Secondly, existing countermeasure research is limited to universities as the main body and lacks the coordinated consideration of government policy tools (such as cross-border data flow regulations) and corporate technological empowerment (such as the AI cultural navigation system). Thirdly, traditional questionnaires are difficult to capture the multimodal adaptation data generated by WeChat communities, wearable devices, etc., restricting the construction of a dynamic evaluation system.

These theoretical limitations have a profound impact on practical effectiveness: When Western theories encounter the particularity of China's technological and cultural context, it is easy to generate the "illusion of digital empowerment" - that is, overemphasizing the neutrality of technical tools while ignoring the shaping effect of algorithmic biases , such as short video recommendations reinforcing regional stereotypes) on cultural cognition. This requires that research must establish a critical perspective on technology. While absorbing international theoretical nutrients, it is necessary to develop an adaptive framework that conforms to the context of "Digital China", which is exactly the breakthrough direction of this study.

III. THE REALISTIC DILEMMAS OF CROSS-CULTURAL ADAPTATION FOR INTERNATIONAL STUDENTS

Studying in China Cross-cultural adaptation is essentially an evolutionary process of achieving dynamic balance through continuous interaction. In today's social context of multicultural integration, the adaptation challenges faced by international students not only stem from surface-level cultural differences but also involve the intertwined effects of multi-dimensional real-world factors. These challenges are influenced by the distribution characteristics of educational support resources and also reflect the profound changes in the patterns of interpersonal communication in the digital age. Through in-depth observation, it can be seen that the core issue lies in the fact that an effective connection has not yet been established between the increasingly diverse adaptation needs of individuals and the response methods of the existing support system. Specifically, there is a time lag between the innovation speed of the cross-cultural adaptation mechanism and the dynamic changes in individual needs, and the traditional support methods still need to be adjusted to match the interaction habits of the digital native group.

A. The Dual Tensions between Language Ability and Cultural Cognition

Although most international students have basic Chinese language skills, the implicit differences in professional terms in academic settings, regional dialects, and non-verbal symbols (such as body language and social etiquette) still constitute deep communication barriers. For example, the conflict in cultural preferences between "implicit expression" and "direct feedback" in classroom discussions may lead to international students' misinterpretation of teaching feedback. At the same time, the phenomenon of "shallow cultural cognition" is widespread - some students only construct their imagination of Chinese society through fragmented information on social media, while the cultural practices in real-life scenarios (such as the rules of interpersonal relationships and the tendency towards collectivism) often exceed their preset frameworks, intensifying the psychological gap.

B. The Limitations of the Educational Support System

The current support system mainly focuses on transactional services (such as visa processing and living guides), while the support for deeper needs such as academic adaptation and psychological adjustment is relatively weak. In teaching practice, the tension between the standardized curriculum settings and the differentiated learning paths of international students is gradually becoming evident: On the one hand, homogeneous language and culture courses are difficult to meet the precise needs of science and engineering students for professional Chinese. On the other hand, international students engaged in interdisciplinary research lack targeted guidance in the face of academic paradigm shifts (such as differences in the logic of thesis writing). In addition, the spatial distribution characteristics of educational resources make it more difficult for international students in non-first-tier cities to access high-quality tutoring resources.

C. The Complexity of Digital Social Interaction

Although digital technology provides international students with channels for emotional connection in virtual communities, it has also given rise to new adaptation dilemmas. The popularization of the online teaching mode has reduced the frequency of embodied interactions in traditional classrooms. Some students have fallen into a "digital isolation" due to insufficient

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network participation. The "information cocoon room" effect of algorithmic recommendations on social media may solidify their stereotyped perceptions of foreign cultures. More notably, digital platforms have reconstructed the way international students accumulate social capital. The exclusive characteristics of the "strong relationship chain" on WeChat pose a higher threshold for them when they try to break through the local social circles.

D. The Fragility of the Social Support Network

The actual effectiveness of informal support channels (such as international student associations and cross-cultural interest groups) is limited by organizational looseness and resource sustainability. In terms of community integration, there is often an interaction state of "friendly but distant" between local residents and international students, and temporary cultural experience activities (such as festivals and celebrations) are difficult to transform into a deep social relationship network. For special groups (such as those with significant differences in religious and cultural backgrounds and sexual minorities), implicit social exclusion may still cause a psychological adaptation burden.

The superimposed effects of these challenges indicate that the cross-cultural adaptation of international students has evolved from a single "cultural conflict" paradigm to a complex adaptation system under the coordinated action of technological changes, the educational ecosystem, and the social network. The solution path needs to go beyond the instrumental support framework and shift towards the dynamic identification of individual adaptation strategies and the construction of response mechanisms, seeking a more refined balance point between institutional flexibility and technological empowerment.

IV. COLLABORATIVE STRATEGIES FOR IMPROVING CROSS-CULTURAL ADAPTABILITY

Facing the complexity of the cross-cultural adaptation system, the solution path needs to break through the mindset of the single-subject responsibility and shift towards collaborative innovation among multiple stakeholders. By integrating the resources of educational institutions, technology platforms, social networks, and cultural entities, a full-chain support ecosystem of "demand perception-resource allocation-dynamic feedback" is constructed to achieve a balance between instrumental rationality and humanistic values in adaptation strategies.

A. Construction of a Hierarchical Language Support System

Aiming at the dislocation between language ability and cultural cognition, it is necessary to establish a three-stage progressive system of "basic communication-academic application-cultural immersion". In the early stage, scenario-based language training should be strengthened, and immersive learning modules integrating regional dialects and non-verbal symbols should be developed. For example, virtual reality cultural scene simulation is carried out. Through teaching with real cases such as hospital registration and community deliberation, students' dual understanding of the instrumentality of language and cultural metaphors can be improved. In the middle stage, professional cognitive scaffolds should be embedded. University professional teachers and linguists should be jointly involved in compiling the subject-oriented "Dynamic Handbook of Professional Chinese Terms", and term workshops should be held in real academic scenarios such as laboratories and research groups. In the later stage, cultural translators should be cultivated. Teachers and students with a bicultural background should be selected to form a "cultural decoding group", which regularly analyzes the cultural logic in social hot events, such as the collective emotions behind internet buzzwords, to eliminate cognitive biases of symbols.

B. Creation of a Dynamic Demand Response Mechanism

To overcome the lag in educational support, it is necessary to establish a mixed response mode of "big data tracking + human intervention". An intelligent demand perception system constructs an adaptation demand prediction model through the digital footprints of international students, such as course selection data, library search records, and the frequency of psychological counseling, to identify high-risk groups. In the elastic curriculum resource pool, cultural adaptation courses are modularized, allowing students to independently combine "micro-course packages" according to their academic progress, such as "Cultural Logic Transformation in Thesis Writing" and "Decoding Chinese Social Media Discourse". A cross-departmental collaboration network breaks down the information silos among the International Office, the Psychological Counseling Center, and academic advisors, and establishes a growth file for international students that includes cultural adaptation indicators to achieve crisis early warning and accurate resource push.

C. Integration and Reconstruction of the Digital Ecology and Social Network

In the social field where the virtual and the real are intertwined, it is necessary to design a trinity intervention plan of "technological empowerment-relationship reconstruction-value guidance". Develop cross-cultural social navigation tools:

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Create an LBS-based offline social map, mark "anchor point spaces" with cultural interpretation functions, such as community senior activity centers and intangible cultural heritage workshops, and students can obtain multilingual cultural annotations by scanning the code. Adjust the algorithm values and cooperate with social media platforms to develop a "Breaking the Cocoon" plugin, which intelligently inserts content from a multicultural perspective into the information flow of international students to break the technological lock of cognitive solidification. Cultivate digital social capital and establish a virtual mentor system. Senior international students share informal cultural knowledge through live streaming and asynchronous video logs, such as how to interpret the silent responses in WeChat groups.

D. Participatory Design for Community Integration

To enhance the resilience of the social support network, it is necessary to transform international students from cultural observers into community co-builders. The construction of a cultural interaction laboratory means setting up cross-cultural co-creation stations in urban public spaces, organizing international students and local residents to cooperate in completing cultural puzzle-solving tasks, such as jointly restoring the historical memories in traditional festival recipes. Carry out a two-way adaptation cultivation plan, offer "Global Neighbor Courses" in community colleges, which not only teach international students dialects and local knowledge but also guide residents to learn cross-cultural communication strategies to eliminate power asymmetry in symbolic interactions. Advocate a social enterprise linkage mechanism, cooperate with shared office spaces and cafes to set up "Cross-Cultural Collision Points", and randomly match Chinese and foreign partners every day to complete collaborative challenges, such as creating bilingual poems with limited vocabulary, to catalyze deep social connections.

E. Collaborative Innovation of the Elastic Institutional Framework

Policymakers need to go beyond the rigid management mindset and construct an institutional environment where international students can stay and integrate. Pilot the cultural adaptation credit bank, recognize the practical experience of international students participating in community services and cultural decoding projects, and allow them to exchange it for general education credits. Establish cross-cultural innovation experimental zones, pilot a "24-hour cross-cultural support center" in areas with a concentration of universities, integrate functions such as legal consultation, psychological counseling, and academic guidance, and provide a mother-tongue support window. Construct a resilience assessment index system, refine cultural adaptability into dimensions such as psychological resilience, social capital, and academic effectiveness, and use it as a reference basis for scholarship evaluation and the optimization of residence policies. The essence of this collaborative strategy is to transform cultural adaptation from passive adjustment to active meaning production practice through the triple coupling of technical tools, spatial reconstruction, and institutional innovation. When international students are no longer simply regarded as "recipients of help" but as cultural transcoders, community co-builders, and innovative participants, cross-cultural adaptation can truly be elevated to a creative practice of civilized dialogue.

V. CONCLUSION

Cross-cultural adaptation, as a core issue in the process of globalization, is always in a complex and dynamically evolving system. This study takes the group of international students studying in China as the observation object and reveals the transformation logic of cultural adaptation from surface-level behavioral adjustment to deep-level meaning reconstruction. The research finds that the deep involvement of digital technology and the interweaving of virtual and real social relations pose fundamental challenges to the traditional adaptation paradigm oriented towards "resolving cultural differences". The adaptation dilemmas presented by international students in multiple dimensions such as language cognition, academic integration, and digital social interaction essentially reflect the concentrated structural contradictions among technological changes, the educational ecosystem, and social networks. Through constructing a collaborative strategy system of "demand perception-resource allocation-dynamic feedback", this study demonstrates a feasible path for improving cross-cultural adaptability. Its core lies in breaking through the one-dimensional thinking of instrumental rationality and realizing the reconstruction of the adaptive ecosystem through the two-way interaction between the activation of subjectivity and institutional innovation.

Cross-cultural adaptation will evolve into a more creative cultural production practice. When the cultural translation behaviors of international students form a positive interaction with the cognitive update of the host society, and when the value adjustment of the algorithm system resonates with the flexible space of institutional design, cultural adaptation may break through traditional dilemmas and be elevated to a knowledge production mechanism for the evolution of human

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civilization. This requires the academic community to explore new theoretical frontiers through interdisciplinary dialogue, and it also looks forward to educational institutions, technology enterprises, and social organizations exploring new practical paradigms through collaborative innovation, jointly drawing a cultural cognitive map for the construction of a community with a shared future for mankind.

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