Practice research on piano online education innovation in colleges and universities in China

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Abstracts

Piano online education is a new teaching reform, but also an important form of traditional classroom to diversified classroom transformation, for integrated teaching innovation practice to provide a new carrier and channel. Online teaching has made a very important contribution to offline teaching. It not only carries out flexible teaching activities, but also makes rich teaching supplements. It opens up a new perspective of piano professional learning and broadens the dimension of piano knowledge and skills learning for students. In this paper, the significance, form and strategy of the implementation of online piano education in colleges and universities are analyzed comprehensively. Under the vigorous development of modern information education, the value of the implementation of online piano education is affirmed, and the unique innovative practice of informationized piano teaching in colleges and universities is injected a continuous power.

Introduction

In recent years, the rapid advancement of technology has revolutionized various industries, including the field of education. With the increasing accessibility of the internet and the growing demand for online learning, traditional educational approaches are being reshaped and transformed. One area that has witnessed significant progress in online education is piano instruction, particularly in colleges and universities across China. This article aims to explore and analyze the practice research on piano online education innovation in higher education institutions in China, shedding light on the benefits, challenges, and potential future developments.

Piano education has long been regarded as a fundamental part of music education in China. It plays a crucial role in nurturing talented musicians and enhancing the overall musicality of students. However, the traditional model of piano instruction, typically conducted in a one-on-one format, presents certain limitations in terms of accessibility, cost, and geographical constraints. Online education has emerged as a promising solution to overcome these barriers, allowing students to engage in piano learning regardless of their physical location or financial circumstances. The innovative integration of piano education with online platforms in colleges and universities in China has led to a transformative learning experience for students. Through the use of high-quality audio and video streaming, interactive learning materials, and virtual practice tools, online piano education has become an efficient and engaging alternative to traditional classroom settings. Moreover, it has enabled institutions to tap into a wider pool of talented instructors and offer a broader range of specialized courses to students across the country. Despite the numerous advantages, the

implementation of piano online education in China's higher education institutions is not without challenges. The article will delve into the various obstacles faced by educators and learners, such as the need for proper technological infrastructure, ensuring pedagogical effectiveness in the online environment, and addressing potential issues related to student motivation and self-discipline. Additionally, the article will explore strategies employed by institutions to address these challenges and enhance the overall quality of online piano education. Furthermore, this article will examine the current state of piano online education in Chinese colleges and universities, highlighting notable case studies and success stories. It will analyze the impact of online education on student outcomes, engagement, and satisfaction, while also considering the perspectives of instructors and administrators. Additionally, the article will discuss the future prospects of piano online education in China, including potential advancements in technology, curriculum development, and research areas that can further enhance the effectiveness of this innovative approach. the practice research on piano online education innovation in colleges and universities in China represents an exciting frontier in the field of music education. By exploring the benefits, challenges, and future developments of this emerging educational model, this article aims to contribute to the ongoing dialogue surrounding online music instruction. Ultimately, it seeks to provide insights and recommendations to educators, policymakers, and stakeholders interested in harnessing the power of technology to revolutionize music education in China and beyond.

Analysis of the significance of innovation and implementation of online piano education in colleges and universities

1) Conform to the development needs of teaching of The Times

In recent years, with the rapid development of Internet information technology and the popularization and application of Internet terminal technology in a wider range, it provides a rich platform and creates a good environment for online piano education. In particular, at the beginning of 2020, under the influence of the new pneumonia epidemic, the traditional offline piano teaching has been affected, and colleges and universities have also transferred the piano course online. Under the special background, online education has been widely developed, so that piano teaching workers see more possibilities of online education implementation. At present, many piano teachers provide high quality teaching resources for the development of online teaching, summarizing many successful methods, and with the passage of time, the implementation of online piano education is becoming more mature.

Although, for teachers' piano teaching practice, online operation has many limitations compared with offline operation, but these limitations more affect beginners with weak foundation, for college students with certain music foundation and performance ability, the operation is ok. In addition, piano online education, because it is not limited by time and space, also solves practical problems for schools to carry out flexible teaching and students' professional learning during the epidemic prevention and control period. For college students, more abundant and high-quality piano resources can be obtained through online learning, and teachers' guidance can save time and effort. The teaching effect is complementary to offline teaching (Wu, 2022: 46-48). The ultimate goal of online piano teaching is to let more students enjoy the learning process, master piano theoretical knowledge and playing skills, and open students' exploration thinking in more novel teaching methods. The development of piano online teaching can let students out of the traditional classroom, through the Internet media, to build a good resource sharing platform for students. It can not only provide students with

more prominent, high-quality and effective teaching resources and learning methods, but also narrow the distance between students of different interest points and different ability levels through the Internet, which provides more innovative ways for piano art education and a new platform for students to expand their vision.

2) Enriching and optimizing piano teaching resources

Researcher found in the survey that many online teaching platforms in the past were just forms, mainly to attract traffic and attention. In a sense, it does not really provide the way of Internet teaching, but mainly provides a communication platform for students and teachers, so that students can find the content suitable for their own learning from the platform. However, the role of platform hub and bridge has not been really played. Such online teaching platform does not really have innovation and change in teaching content and form. At present, although there are certain limitations in online piano education in colleges and universities, the deep combination and effective coordination of online piano teaching content and form with offline development make online piano education resources a beneficial supplement for offline piano courses, and give full play to the real advantages of "online + offline" integrated teaching. Piano teaching is a very practical course, and the characteristics of "teaching students according to their aptitude" are more prominent, so it is necessary to adjust the teaching methods according to the different professional basis of each person. Teachers in colleges and universities make full use of the network platform to innovate and reform the piano classroom teaching, which not only online the teaching atmosphere, but also guides the professional training of each student more conveniently and effectively (Xia, 2022: 68-70). With the continuous promotion of online piano courses, teachers have more experience in online teaching, the forms of online teaching are constantly diversified, and the advantages of integrated piano courses have been reflected in new ways.

In addition, there are also many piano teaching resources of colleges and universities on the Internet, mainly piano teaching videos. Universities record the teaching process of teachers according to certain curriculum standards and post it on the Internet to provide online piano course learning materials for students with different learning needs. However, with the popularity of the Internet, colleges and universities attach importance to online piano education, and the online teaching mode of transferring traditional classes to the Internet has been unable to meet the needs of talent training under the background of information education, as well as the constantly upgraded learning requirements of piano talents. Therefore, in addition to rich teaching resources sharing, online piano teaching pays more attention to the communication and interaction between teachers and students. Students can not only learn more comprehensive piano knowledge and skills online, but also communicate with teachers online and share with classmates who have the same hobbies and learning needs. In particular, the construction and application of the Internet teaching resource sharing platform further strengthens the cooperation between different colleges and universities in online and offline piano teaching, making the informationized piano teaching more comprehensive and systematic.

3) The development form of flexible piano teaching

Online piano teaching in colleges and universities can break the singleness of traditional teaching mode and introduce various elements such as animation, video, audio and live broadcast into the piano teaching process. For example, the musical score of piano works is presented in the form of animation, so that students can feel the changes of music rhythm and melody in different sections, so that students' rational thinking of piano music is integrated with richer emotional colors. By changing the traditional teaching mode, the novel presentation makes the piano teaching resources more interesting and makes the boring analysis of piano music works full of fun. In addition, for college students, online teaching interaction is very attractive. They can not only share learning resources, but also discuss and communicate with classmates and teachers. In the strong learning atmosphere, teachers will give students professional guidance, will achieve twice the result with half the effort, flexible teaching mode is also more conducive to the innovative development of piano teaching (Wang, 2021: 66-67.).

With the sharing and opening of online music teaching resources in colleges and universities, online piano teaching has changed the traditional teaching mode into a more integrated course focusing on music experience. The researcher found in the investigation that some art colleges and universities are also building piano teaching apps and small programs, which cover the performance appreciation of works, basic piano knowledge, playing skills, playing practice and original works. These contents can be used as the piano teaching resources for teachers, and also provide content support for students' professional learning, which is conducive to the creation of classroom atmosphere and more diversified piano classroom teaching forms.

Exploration of innovative development forms of online piano education in colleges and universities

1) Online practicing partner

Online practicing partner is an important way of online piano teaching in recent years. Internet teaching replaces face-to-face teaching in the past, which also makes piano teaching more flexible. In this way, it will get rid of the restrictions of the past region and space, avoid the waste of teachers' teaching time and energy, and maximize the value of high-quality teaching resources through the sharing of online piano teaching resources. At the same time, students in different environments to achieve anytime and anywhere guidance practice. At present, there are "one-to-one" and "one-to-many" piano teaching methods in colleges and universities, which are roughly the same as offline piano teaching. However, the advantage is that the piano practice process of students can be saved by means of Internet video recording. Both teachers and students can review the content of the partner's practice after class, and give timely guidance and evaluation to the performance of the class through the Internet. This is conducive to creating a relaxed classroom teaching atmosphere, and can greatly play the teacher's guiding role. Ensure the piano online teaching effect.

2) Video teaching recording

With the development of online piano teaching in colleges and universities, video teaching resources are gradually applied and popularized. High quality piano teaching videos can expand teaching methods and arouse students' enthusiasm for professional learning. Video teaching is carried out with the help of various teaching activities and conference apps, and teaching is conducted through the Internet. Some forms are presented by online classroom

teaching organized by learning groups, and some join a certain platform for online learning. The development of piano video teaching needs to control the comprehensive ability of teachers and the quality of video teaching, and promote the piano online video teaching resources through the teaching platform with mature information technology. At present, piano online video teaching is only carried out in a small range of colleges and universities, so it is necessary to constantly learn successful experience from the online teaching of other subjects and constantly improve relevant teaching links. For example, teacher reserve, platform function, content quality, etc., make online piano teaching more standardized, can promote the continuous development of piano education (Wang, 2021: 132-133).

3) Network of teaching materials

Teaching materials networking is a teaching resource that converts offline piano teaching content and classroom teaching process into files, videos, audio and other forms and upload to the Internet for teachers and students to use. This kind of online teaching form of networked teaching materials mainly exists in the form of piano teaching resource library. The piano education resource library is constructed under the organization of music departments of colleges and universities, and the offline piano teaching plans, classroom teaching audio and video materials, or specially recorded classroom lecture videos of teachers, piano teaching text content and so on are sorted out and converted into Internet teaching content to be shared in a certain range. At present, due to the limitation of capital and technical level, the development ability of piano teaching resource library is limited in colleges and universities. Due to the limitation of memory size, file type and copyright ownership, resource dissemination cannot be carried out in a wide range (Li, 2021: 157-158). However, because many contents are the essence of piano teaching, the knowledge content of networked teaching materials is very high, which has far-reaching value for the innovation of piano teaching in colleges and universities.

Summary of innovative practice strategies of piano online education in colleges and universities

1) To strengthen the teaching foundation with capital and manpower investment

The development of standardized and characteristic piano online education in colleges and universities is inseparable from the construction of a good Internet education platform. Platform construction, resource development and perfect supervision are inseparable from human and financial support. Therefore, in order to build a good online piano education model, colleges and universities must increase the investment of special funds and human resources, in order to improve the equipment resources and technical support required for online piano teaching, to ensure that piano teachers can go unimpeded when using teaching apps, small programs and websites, and to ensure the high-quality development of online piano classes. The hardware and software conditions require not only financial support, but also professional and technical personnel. In addition to technical personnel, piano teachers also need to go through systematic training to ensure the smooth development of online piano teaching, giving full play to the advantages of online piano education. For the needs of professional manpower in various aspects, the school should not only strengthen vocational skills training, but also constantly introduce high-end talents with modern educational means, so as to drive more teachers specializing in traditional education to develop online piano teaching models, and constantly promote the innovation and reform of online piano education.

In addition, for the development of online piano education, the school should give full play to and explore the human resources of students, so that students can actively participate in the development of online piano teaching courses, which can meet the learning needs of different students to the greatest extent, highlighting the characteristics and value of online piano education (Sang, 2021: 165-168).

2) Enriching teaching practice with diverse teaching modes

There are various forms of online piano teaching, mainly audio, video and live teaching. Due to the lack of face-to-face communication between teachers and students, it is difficult to carry out intuitive teaching demonstration. Therefore, if universities want to improve the effect of online piano teaching, they should enrich the online teaching mode, increase the interaction between teachers and students, and enhance students' interest in learning. For example, during live piano teaching, indoctrination-style teaching mode should be reduced as far as possible, because it is difficult for teachers and students to feel the real state of each other when they are separated from the screen in online teaching. Therefore, it is necessary to evenly allocate the time of "teaching" and "learning" to increase the teaching interaction between teachers and students. In the course of teaching, we can constantly ask questions, demonstrate and explain, encourage students to give active answers, perform demonstrations, and create a relaxed and harmonious classroom teaching atmosphere through public screen questions and answers or mutual evaluation in class. Teachers can also "connect the microphone" with students, so that students can analyze the processing of piano performance and reflect the performance skills by combining the performance of specific piano music works. This can not only enhance the teaching interaction and emotional communication, but also enable teachers to timely understand the students' learning situation and grasp the piano knowledge and skills. To achieve the online piano teaching "edutainment" teaching goal.

In addition, online piano teaching in colleges and universities should follow the development purpose of offline teaching, take students as the main body of teaching and highlight the teaching status of students. Therefore, more novel teaching methods can be incorporated into live piano teaching classes to make students become the masters of the class. For example, the students are divided into different study groups, and the representatives of the group members are selected to be the organizers of piano class activities, so as to grasp the progress of the course and analyze and explain the piano teaching content. In addition, in the form of group report, students are organized to review and summarize the learning achievements of different students, and the results are presented on the public screen, which can not only improve the learning efficiency of students, but also make the online teaching atmosphere more enthusiastic. Can take turns to let the students do the teaching organizer, so that the enthusiasm of the students can be mobilized, improve the interactive piano live teaching, improve the cohesion of the learning team (Yu, 2021: 109-110). In short, the use of diversified piano teaching modes will enrich the online teaching, make the classroom more harmonious, and make the online piano education get continuous development.

3) High-quality control to create online teaching results

Although the online piano teaching is rich in resources and diverse in forms, the quality of online teaching resources should be strictly checked, and it needs to start from all aspects. First of all, optimize the piano teaching resources collected through various channels. Piano teaching resources should be tested, checked, adjusted and perfected by professional teachers before they can be published and disseminated on the Internet. Piano teachers should dig the teaching resources available for piano teaching on the Internet, constantly optimize and apply the relevant teaching content, and then publish the teaching courseware and classroom teaching plan to the online teaching platform, so as to facilitate more teachers and students to carry out high-quality online teaching and learning. In addition, different piano teaching resources can meet the individual needs of different students and teachers. Schools should encourage teachers to develop and design online piano teaching resources, and can also hire related Internet resource development agencies to guarantee the quality of online piano teaching resources, so as to promote the improvement of students' online piano professional learning ability (Zeng, 2020: 118-120).

In addition, colleges and universities should pay more attention to the development of online piano teaching and activate the value of online piano education with a variety of practical ways. Colleges and universities can invite piano teaching experts and performers to give cloud lectures, so as to impart the application methods of modern information technology to teachers who are accustomed to traditional teaching mode, provide more comprehensive guidance for teachers' online piano teaching, and improve teachers' online piano teaching ability. Colleges and universities can also organize piano teachers to participate in various information teaching training, get familiar with various online course software, and apply it in practical teaching, so as to strengthen teachers' ability to expand online piano teaching methods and use modern information technology, so as to create a new position of high-quality online piano teaching.

4) To improve the system supervision to promote the implementation of teaching

With the vigorous promotion and wide popularization of online piano teaching in colleges and universities, various online piano teaching platforms have emerged. Therefore, the education department and colleges and universities should set up relevant supervision departments to improve the supervision awareness of online piano teaching, and strictly check the teacher's qualification, teaching content, teaching form and other aspects to ensure the professional, correct and scientific content of online piano teaching. It is necessary to strictly supervise whether the professional knowledge is correct, whether the knowledge structure is complete, whether the teaching method and the words and deeds of the teachers are in line with the teacher's code of conduct standards, etc., to ensure that the online piano teaching can run efficiently. The specific implementation mode should also be adjusted according to the actual teaching of the school. For example, the standards of teachers participating in the construction of online piano teaching platform can be regulated. Teachers, whether full-time or part-time, need to have relevant professional qualifications; It is also possible to formulate the selection criteria for online teaching platform teachers, including professional knowledge assessment, classroom teaching evaluation, etc. Piano teachers with rich teaching experience and who have won honors and awards in the teaching process should be given priority. In addition, we should formulate a reward and punishment system, give different levels of rewards to outstanding piano teachers, and adjust the position of piano teachers who fail to pass the assessment in various aspects. In addition to the supervision system to improve the

overall online teaching ability of teachers, students should also be strictly supervised, and standardized classroom discipline and correct learning atmosphere should be adopted as the criteria, so as not to destroy the positive teaching atmosphere of online teaching and cause adverse classroom influence. In short, colleges and universities should constantly improve the supervision system to ensure the smooth development of online piano teaching.

Conclusion

All in all, the construction of online piano teaching platform in colleges and universities conforms to the development trend of information-based teaching in the times, is a beneficial attempt to modernize piano teaching innovation in colleges and universities, and is an important content of the construction of integrated piano online and offline piano teaching classrooms. In the continuous teaching reform, with the continuous maturity of information technology and the rich experience of piano online education, more innovative thinking and implementation methods will also be integrated into the implementation of piano online teaching, which will have a positive and far-reaching impact on the quality piano curriculum and the training of high-end piano talents. However, as a new thing, online teaching still has a long way to go. Colleges and universities need to form a stable teaching mode in the continuous reform and improvement, so it is also a lasting exploration of teaching reform. More teaching colleagues need to broaden their ideas and make joint efforts to inject innovative vitality into traditional teaching classrooms in colleges and universities, so that offline teaching and online teaching can form a fusion force. We are committed to the creation of innovative piano classes and output more high-quality piano professionals with outstanding professional ability.

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