On the Penetration of Multimedia and Network Technology into Piano Teaching and Performance

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Abstract: With the continuous innovation of social multimedia and network technology, it has brought great impact to the traditional piano teaching mode and method. In the current vocal music teaching in colleges and universities, piano education and teaching has been widely concerned by teachers and welcomed by students. The piano teaching and performance based on multimedia and network application fully realized the in-depth innovation of classroom teaching and the development of educational teaching mode, which not only ensured the effective creation of a good atmosphere in classroom teaching, but also broke through the shackles of traditional classroom teaching, enriched the knowledge system of classroom teaching, and laid the foundation for the continuous improvement of piano teaching level. Therefore, if we want to improve the effect of piano teaching and performance in colleges and universities, piano educators must make greater efforts to promote the application of multimedia and network technology in the actual classroom teaching process.

1. Introduction

The wide application of multimedia and network technology in teaching has injected new vitality into today's teaching. Teaching through multimedia network has become a brand-new teaching method [1]. However, it has also changed the disadvantages of single teaching mode and passive teaching of students in piano teaching in the past, greatly expanded the extension level of piano teaching, optimized piano teaching methods in colleges and universities, enriched teaching information transmission methods, and improved the efficiency and quality of piano education [2]. In the process of piano teaching and playing, the application of multimedia, Internet and other technologies has been unanimously recognized and highly endorsed. At the same time, it has played a significant role in optimizing teachers' classroom teaching and students' deep cognition and profound mastery of music theory knowledge.

Integrating multimedia technology and network technology in the teaching process can obviously improve the quality and efficiency of classroom teaching, and it also plays an increasingly important role in piano teaching and performance education. This paper discusses how to effectively integrate piano teaching and performance with modern multimedia and network technology.

2. Present situation of traditional piano teaching

In colleges and universities, the traditional piano teaching is a teacher-led teaching mode, in which students are always in a dependent position, and this teaching mode has many drawbacks.

2.1. Unable to exert students' initiative

In the teaching process, teachers' guidance to students and students' self-initiative can't give full play to their effectiveness. Teachers' examination of students' piano learning is generally to understand students' mastery and understanding of piano works through students' live piano performance [3]. What's more, there are some things that can only be understood and can't be told by words. At this time, if we can make full use of multimedia graphics, sound and animation, we can get twice the result with half the effort. In the process of imparting knowledge, teachers put too

much energy into students' understanding of piano knowledge, ignoring students' emotional awareness needs. It is not conducive to students' in-depth memory of knowledge, students' cognition and memory can not be effectively strengthened, and the corresponding piano learning ability is at a standstill, which affects the improvement of students' comprehensive piano learning ability.

2.2. The teaching method is single

Most students are not interested in piano learning except professional curriculum knowledge. In addition, teachers still use the previous teaching ideas of single, old-fashioned indoctrination and cramming mode and teacher's main position in the teaching process, but in such classroom teaching, it is more difficult to realize the mobilization of students' learning interest and enthusiasm. In the teaching process, it is difficult for the teacher-led teaching mode to play the role of teacher guidance and students' subjective initiative. In the teaching process, teachers focus too much on students' mastery of piano knowledge, ignoring students' emotional awareness needs in the piano learning process [4-5]. In the process of extracurricular teaching, students rarely have the opportunity to practice freely, and the traditional practice method ignores the requirements of students' personality differences, which makes it difficult for students to improve their piano level.

3. Necessity of applying multimedia and network technology to piano teaching

The application of multimedia and network technology plays an important role in piano teaching. Advanced network technology and multimedia are conducive to improving students' understanding of piano performance, cultivating students' appreciation ability and love for piano art and improving students' music appreciation level. At the same time, the networked piano teaching can also choose different styles of music materials according to local conditions to meet the needs of students' regional cultural development, and realize selective teaching according to individual differences of students, such as different time, content, methods and places, and even different instructors, so as to learn piano anytime and anywhere through the network.

Generally speaking, the basic forms of piano playing techniques include scales, arpeggios, triple disyllabic tones, octave disyllabic tones, chords and decorative tones, etc. Through the free combination and collocation of these forms, diversified forms and styles of piano music can be finally formed [6]. Multimedia and network technology are used to teach piano theoretical knowledge, which makes the theoretical knowledge difficult to understand more vivid. For example, in the study and memory of music theory knowledge such as spectrum method, interval and mode, students can master piano music theory knowledge in many aspects; At the same time, the innovation of multimedia and network technology also provides many methods and ways for students to participate in teaching and practice, and stimulates students' learning enthusiasm, thus making piano teaching play an active role in modern social life.

4. Infiltration of multimedia into piano teaching and performance in colleges and universities

4.1. Make full use of multimedia to enjoy famous concerts

Under the background of the prevalence of the Internet, teachers should make full use of the advantages of the Internet, use multimedia and network technology and other teaching methods, and use multimedia to play some famous music concerts to students in the classroom piano teaching process, so that students can feel the atmosphere of concerts [7]. On this basis, help teachers quickly and accurately search for piano works that conform to classroom teaching content, and then provide students with learning and appreciation. For example, teachers can play famous musicians' concerts by means of multimedia to guide students to feel the charm of polyphonic works; Appreciate musicians' performance and feel their passion when playing.

Teachers can organize students to appreciate famous piano music in multimedia classrooms. In the process of playing piano music, these piano works show pianists' profound performance skills. Using multimedia computer-aided instruction, the contents of each subject are arranged completely and in detail according to chapter logic, so that its interface is simple, friendly and easy to use,

coupled with just right exquisite illustrations and animations, it will be able to vividly describe some concepts and theories that are difficult to understand, make the teaching more comprehensive and lively, and make the learning process very relaxed and enjoyable.

4.2. Collective teaching with digital piano

This piano teaching mode is based on the premise of digital piano classroom, and carries out piano teaching through various multimedia software. The application of digital piano classroom can fundamentally change the disadvantages of traditional piano teaching mode. In the actual teaching and performance process, teachers not only pay more attention to the students' subjectivity in the classroom, but also pay great attention to the improvement of their comprehensive ability [8]. In addition, teachers can also guide students to search independently around classroom teaching content through network technology, and display and share their own works in classroom teaching. Through multimedia digital piano teaching, the distance between teachers and students is greatly reduced, and the interaction is greatly enhanced, which not only retains the teaching effect of the traditional one-to-one mode, but also increases the fun of collective class.

In addition, digital piano teaching makes full use of various modern multimedia technologies, which can greatly reduce the pressure of teachers in the teaching process. The use of digital classrooms can further improve the teaching efficiency of piano performance skills training, reduce the work intensity of piano teachers in colleges and universities, optimize the quality of piano teaching, and provide technical support for improving students' initiative, enlightening, intuitive and personalized development of piano learning.

4.3. Using multimedia music software to carry out outward bound training

With the advent of the Internet, almost every household has a personal computer, which is followed by a large number of computer software. Many music software, including some music teaching software, have been developed in the music field. Teachers can use these software to give students special development training, and make full use of the advantages of music teaching software to lay a solid foundation for students to play music. Through the use of some network platforms, students can enjoy piano performance directly, which plays a very significant role in piano performance learning. As we all know, there are a lot of rich teaching resources on the Internet. Teachers can ask students to search for relevant teaching videos on the Internet after piano teaching, and guide students to actively understand the relevant knowledge of piano teaching. Internet search can also guide students to understand the life stories of musicians and further enhance students' understanding of music works.

5. Application of network technology in piano teaching and performance in colleges and universities

5.1. Use online forums to exchange and learn

Communication learning through online forums is favored by the younger generation, especially college students, and many students like this learning method. For example, the existence of Post Bar, Weibo, Forum, etc. can provide a good platform for people to communicate piano knowledge and performance content. By asking questions freely and quickly, there will be some professionals in the platform to explore and answer, so as to achieve a good solution to their own problems and a more comprehensive understanding of knowledge [9]. At present, the authoritative music forums include "Starry Night Piano Forum", "Bug Piano Forum" and "Popular Piano Network", etc. University teachers can encourage students to actively participate in online forums to exchange and learn piano knowledge, so as to lay a solid foundation for improving students' piano ability.

5.2. Search for information by using the internet

Experienced piano teachers have a wide range of knowledge and deep understanding in the teaching process, so students may not be able to fully absorb and master teachers' teaching contents in class. Lack of mastery of piano knowledge and technology has brought difficulties to students.

For composers and works mentioned by teachers in the teaching process, students can search through search engines, so as to know the specific background and content of authors and works, and help students better grasp the teaching content of teachers after class.

5.3. Make full use of network resources

In order to improve students' piano level, teachers should combine modern scientific and technological means and make full use of network resources to provide power guarantee for improving students' piano level. For example, teachers can guide students to search and download the recordings or videos of music works they need; Watching the live piano performance on the Internet can help students master the new piano works and their characteristics, methods and skills in the process of playing, and then optimize their application in their own piano performance to ensure the continuous improvement of their own piano performance. In the new era, if we want to improve students' piano level and teaching quality, we must combine modern science and technology, roam in the spring breeze of the network age, and make good use of network resources. The abundance of network resources has brought us a wider space.

6. Reflections on multimedia in piano teaching in colleges and universities

In the recent twenty years since the rise of online teaching, the development of websites has been uneven. In the process of practice, more and more problems and disadvantages are gradually exposed. Some websites are empty in content, with the aim of earning advertising fees under the banner of education.The "quick learning atmosphere" is also extremely serious. The development of science and technology accelerates the pace of life, and people will consider whether time is used effectively in everything they do. The social atmosphere of eagerness for success stretches into education, giving time and focus to the teaching circle. The network teaching has exploited the loophole of people's eagerness for success. In the teaching process, it focuses on the concept of "quick learning", learning to play the piano in one class, learning to pop jazz in an hour, etc., shortening the video recording time as much as possible, and concentrating the learning focus again.

Most speed learning courses have core teaching methods. In this method system, the teaching content will be summarized as a simplified knowledge focus, which is intended to teach students a learning method. In the process of learning, we need to draw inferences from others and apply them flexibly to achieve a shortcut to master skills quickly. As far as cultivating children is concerned, every parent's starting point is very different. Some parents want to cultivate their children into pianists, and some parents want to cultivate their artistic temperament. As far as online learning is concerned, some parents think that children's understanding and self-control ability are inferior to those of adults, so they can't control the learning rhythm in the process of learning. However, parents are very concerned about the auxiliary teaching role of online piano teachers' classroom, which is also the main reason why the learning website for piano children can't be carried out smoothly. How to implement network teaching step by step poses a great challenge to network technology.

7. Conclusions

To sum up, under the background of the rapid development of information technology, it is an inevitable trend to use multimedia and network technology in piano teaching and performance. The application of multimedia and network technology provides a brand-new world for piano education and even the whole art education. By making full use of multimedia and network technology, students can have a clear understanding and feeling of the audio with strong rhythm and rhythm, which can not only improve teaching efficiency, optimize traditional piano classroom teaching, but also greatly improve students' mastery of piano knowledge. Understand the practical role of computer and network technology in piano teaching, and provide technical support for improving students' piano ability by actively using multimedia to enjoy famous concerts, giving full play to the role of multimedia digital piano classroom and using network search.

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