Vol.2 No.1 2021
https://doi.org/10.37420/j.cer.2021.003

# Practice and Research of Applied Sculpture Teaching Mode in the Big Data Era

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***Abstract***: *This paper explores the development trend of university sculpture teaching mode in the era of big data during the epidemic time. The new model of applied sculpture basic teaching of Beijing University of Technology is put forward, the model is constructed, and the multi-course convergence effect is achieved after the practice process. Through the discussion of teaching review after the day-to-day school, the characteristics of the network teaching mode are analyzed, and the challenges and problems brought about by the traditional sculpture teaching are considered for reference by relevant researchers.*

***Keywords***: *Big Data; YSN School; Sculpture Teaching; Teaching Mode*

## Introduction

The combination of sculpture art and science and technology teaching has become a hot topic today, and the background of the epidemic era has once again promoted the development of big data in the development trend of college teaching. By using artificial intelligence through data mining and other technologies, it is necessary to perfect and develop the teaching of applied sculpture, build mixed teaching mode, and make exploring mixed teaching methods become the hot spot of art teaching.

Sculpture teaching has been to cultivate students' artistic intuition and further explore the way to become artists' cognition of the world in the future and rely on the exhibition model to drive the audience to participate in the coexistence of the common understanding of the world. In the mode of college teaching, the quality training of artistic intuition becomes a vital teaching leader, leading students to perceive specific things in nature and life situation, and improving the feeling and intuition of art. Perceptual training enables students to complete the psychological transformation process from cognition to creation, and also becomes the educational method that teachers constantly explore and accumulate, and we discuss here how to use big data to enhance and complete the cultivation of students' artistic intuition.

Big data, mobile connectivity, and other technologies present signal transformation, through which data and information analysis is refined into theory, theoretical relationship decision-making or action. To promote the deep-seated promotion of students with the help of learning on the teaching platform, more convenient access to professional information, learn self-integration, development and how to use, and gradually construct a virtual fusion of artistic perception and experience space, more effective completion of the re-creation of works of art. Master the basic curriculum of Internet information technology and sculpture and

realize the interactive channel of coexistence between teaching. The use and integration of the development of information technology make big data, “Day New School”, sculpture teaching, and other three logical relations. The link between big data and “Day New School” naturally became the basis for emergency start-up during the outbreak period, and the new model of sculpture teaching is both a challenge and an opportunity.

Under the guidance of the concept of perceptual education, how to use the mobile platform of scientific and technological progress to receive sculpture teaching, expand the advantages of connected technology, big data, and other challenge clusters, review the longevity of big data, "Day new School" and traditional sculpture teaching, integrate the phenomenon interdisciplinary through three traditional perspectives, combine college students to learn how to analyze and process large amounts of data from complex data collection, and complete the information expansion of digital information participating in the museum era in the era of big data. Teaching researchers need a clearer theoretical perspective to explore how to search, extract, store, analyze, share, and even transform using existing traditional teaching software tools. Cultivating students' new understanding and understanding of the world will have a new case, which will eventually lead to the formation of more modern practice of sculpture art under the interference of science and technology.

## The Concept of Perception in Art Education

Educators need to help students complete the step-by-step process in psychology, cultivate students from emotional experience to abstract logical thinking, this art feel from experience to understanding, need to stimulate students to resonate, teachers persist into lead students to gradually realize that the function of art is to teach how to perceive the external environment media, understanding of artworks, creativity, and logical thinking ability, is one of the important contents of art education.

However, the traditional sculpture education model focuses on teacher-oriented teaching and too much training in the practice of art students will reduce the lack of independent thinking and integration of information and neglect the cultivation of students' artistic perception ability. Teaching is mobilizing students through the improvement of perceived realistic skills and the cultivation of artistic understanding. Combined with art history and aesthetics, different national cultures and genetic factors such as students' personality, temperament, gender, and intelligence, gradually exert the independent artistic aesthetic psychology of students, and form a unique individual artistic expression, and it is very important to perceive the effective integration of educational ideas and traditional teaching.

## The Combination of Art Education and Art Teaching Mobile Platform

Under the special teaching background in the era of the epidemic, the communication frequency of teaching can be realized through the full application of mobile phone and PC, the essence of art teaching platform is to rely on big data technology to connect, big data has four characteristics, respectively, large capacity, variety, speed, high value, but for basic teaching students will have the corresponding difficult to identify and select the problem. The way of perceptive art teaching under the mobile Internet channel is also related to the direction of teaching controlled by teaching aids in various departments. Taking the Chinese

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sculpture network platform as an example, every year many college graduates join the work, the artist's work introduction, but also need to better overcome the disadvantages of the current curriculum teaching, information technology should eventually make "human function in the extension of technology, so that the formation of the original traditional teaching mapping to the network technology function, that is, faculty-level students are deeply involved in, integrated into the technical environment to be remodeled process, and then achieve the improvement of educational efficiency and students benefit from the expansion."

## "Learning Pass" "Day New School" "WeChat" and Other Platforms to Facilitate the art Teaching-Learning Environment of Teachers and Student Communication

Repeated perception and multi-teaching communication is the basis of individual students' art Learning. The web search engine in the age of big data helps students quickly acquire resources, facilitate learning, and obtain specialized information. Teachers should also change their traditional roles and positions accordingly and can use new media resource platforms such as the Internet to help teachers change from imparter to leader. Students become the main body, anytime, anywhere the use of the network to retrieve a variety of resources, students in life and learning, the use of the network selection and their development of information, form habits. The establishment of the teaching resource library framework provided by teachers in the art network platform solves the basic cognitive link of students. The use of a social common resource pool integrates a variety of art subjects, art materials, artworks types, artist interview documentaries, teaching courseware, and other art teaching resources, relieves the pressure of the existence of space constraints in sculpture teaching, and changes the degree of a traditional single place. Learning through, the day-to-day school will be organized teaching behavior into a purposeful individual learning behavior with the help of this platform.

Students must adapt to solve the problem of learning space on their own and interact with teachers through online communication to cultivate and optimize the effect of art teaching. Sculpture teachers should pay attention to the ability and literacy of students to make use of modern information technology tools, learn to acquire, distinguish and process information, develop good critical thinking training, and realize the expansion of subject thinking training under the condition of the diversity of teaching forms.

## Learning Through “Day New School” and Other Teaching Platforms to Share Teaching Resources

A large number of excellent works of art in the network are provided by teachers. Teachers participate in and interfere with the design of the emotional training framework for art education students in colleges and universities, providing good learning resources for art teaching, including artist and audience blogs, interview audio, interviews, art review videos, exhibition pictures, artist interviews, exhibition location information, etc.

It is generally accepted that "multi-type data is more demanding of data processing power". The increase in data diversity is large because new multi-structured data is done through the student's personal experience. Through multi-sensory, multi-channel contact with artworks and experience art teaching resources, through personal perception, understanding, realization, and improvement of utilization, can make up for the lack of

sculpture materials in the past, the lack of theoretical research. The sharing of resources by big data provides the necessary conditions for the reform of the traditional sculpture teaching mode. Information technology has a profound impact on how students use creative methods to accomplish their work and learn basic skills. The network promotes the parameter experiment of sculpture teaching, the application of computer technology, and so on. Sculpture teachers face network resources, need to redesign teaching, use the different technical backgrounds to arrange tasks, provide theoretical learning content, use rich big data resources, improve the quality of sculpture teaching. At the same time, sculpture teachers must reasonably explain the gap between computerized technology and traditional aesthetics and emotion, science and technology and sculpture art, promote the transformation of sculpture in sculpture college, integrate sculpture curriculum, and fill the application of information technology in sculpture form and sculpture art analysis. to improve the learning and training of relevant skills.

### Art Mobile Teaching cloud Platform can Achieve Personalized Tutoring for Student

The Internet era includes blog, social media, Internet search, mobile phone call record and sensor network, and a comprehensive and in-depth discussion of the teaching of sculpture, and at any time to reform the teaching mode of sculpture, improve the quality of teaching, provide an effective reference for sculpture materials. The scale of big data is evolving into a constantly changing collection of metrics, providing students with very optimistic choices. Some Chinese students in the practical application of sculpture, through data collection on sculpture teaching model creation application to achieve Internet technology "check", can carry out the form and materials of simulation learning and discussion, and exclude the existing creative model. The phenomenon of building cars behind closed doors in teaching. This is an advantage in the big data segment. Through big data analysis of learning type, frequency of access, application effectiveness, etc., students build the resource model of art education and finally recommend personalized learning resources for learners through the big data analysis function in the teaching cloud platform. The big data analysis of learner's learning behavior on the art mobile teaching cloud platform can also provide data support for teachers to improve teaching practice and implement accurate teaching so that teachers can accurately evaluate their teaching according to the visual analysis results provided by the platform, and realize the further revision of teaching program and tutoring program based on teaching reflection.

## Use of the Art Teaching Mobile Platform

Under the background of "Epidemic Internet", mobile Internet technology has a great impact on the renewal of the traditional teaching model of art colleges, and the sculpture teaching platform of colleges and universities will integrate, classify, store, retrieve and manage teaching resources from theory to practice to the maximum extent, realize the expansion and sharing of teaching resources, and promote the domestic art colleges to finally solve the problem and meet the needs of different users. Many first-line sculpture teachers through continuous practice and thinking, completed the double workload of sculpture teaching, large data research screening, and photographic models of the picture reference and selection through strict control, to explore its scientific and practical possibilities, and promote new teaching results. It has important enlightening value to the reform of sculpture teaching mode.

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## Art Teaching Platform Client Mode

The client of art teaching is divided into three parts (see Figure 1) resource acquisition, interactive communication, background management. Teacher users use the platform to obtain the resources they need for teaching, and at the same time review, classify, and perfect the resources uploaded by students. Interactive communication modules help instructors understand learning and manage and adjust and further co-ordinate. The Big Data Analytics Management Platform provides big data analytics for basic data, resource application data, and user learning behavior data, supporting other capabilities, and providing data support for teachers' teaching and student learning. Through the division of these three parts.

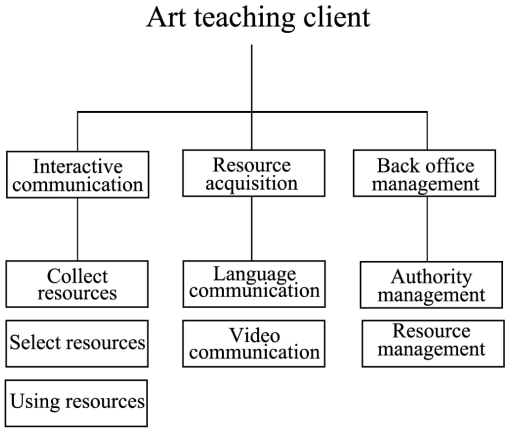


*Figure 1. Frame diagram*

## Art Teaching Platform Teaching Function Construction Model

Sculpture teaching can obtain multi-angle digital information through the network to help students complete the modeled state, big data has a multi-layered structure, and presents a variety of forms and types of the collection (see Figure 2). Therefore, how to through the sculpture teacher's curriculum screening and sculpture art cultivation grasp is very important, the powerful data value of sculpture art purification or in-depth excavation, identify the complexity of the big data, but also big data for the "Day new school" such teaching methods to provide the necessary application basis. The application must first be transformed into information, the formation of information-based audio and video resources, these resources can assist the network teaching sculpture application and platform learning.

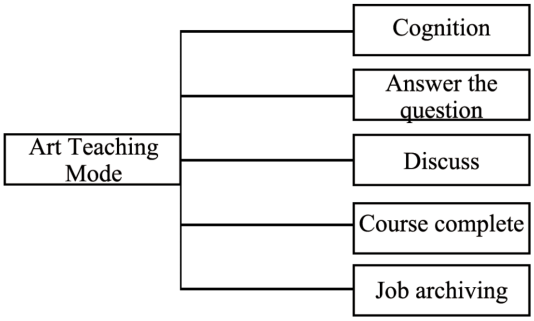


*Figure 2. Platform teaching mode chart*

### Network Teaching Platform Data Construction Model

As a product of the times, the real driving force behind the rise of large-scale open online learning courses, such as the rise of "Day New School" from the rise to the mainstream teaching model of today's popular era, is big data. The origin of data construction of network teaching platform is the rapid development of information technology, the accumulation, and increase of information dissemination, the formation of big data, the formation of a global state, different cultures can share information in different regions. It is called "post-traditional times" by the famous British sociologist Anthony Giddens, it is everywhere but it is not a tradition of natural significance. The idea of everyday school is big data and thought and spirit are a soul. People have different views on the development prospects and influence of nursing schools, and under the concept of daring to face the great challenges of teaching transformation in the mass era, the development of "Day-New School" applies to the teaching of the mass period. It pays attention to and derives many different classification methods, establishes and relies on the in-depth interaction between teachers and students, students use social software, research around the subject, explore the knowledge structure, complete a topic every week, emphasize content memory, through the use of a large number of typical cognitive teaching methods, students mainly through watching teaching video learning, supplemented by online evaluation, belongs to the form of replication of knowledge.

### The Development of Mixed Teaching under Art Teaching

Talent training thinking in the era of big data, sculpture art teaching in colleges and universities is no longer training sculpture artists. The way to integrate teacher resources and promote team building is the inevitable trend of teachers' professional development in the era of big data. This career development trend has two major advantages: First, to promote the division of professional teachers, from individual teacher teaching to teamwork. Minimize the duplication of teachers' work and support the formation of the team; Second, with big data as the first, a new type of teacher-student relationship and learning partnership is formed under the "Japan-New School". Improve their ability and service awareness, spirit. Network curriculum design is an important way to solve the problem of insufficient learning and guidance ability, the majority of sculpture teachers must keep pace with the times, seize the opportunity to enhance the core ability of individuals.

## Big Data Sculpture Teaching Research

The sculpture teaching based on big data will bring together under the new opportunity to form a new development trajectory, mainly reflected in the following aspects: First, the sculpture teaching based on big data to promote students to clear and personalized learning has become possible, in line with the original intention of sculpture art teaching to finally complete the personalized endpoint, according to the traditional sculpture concept of teaching by materials to get a real transformation. To give full play to the advantages of students themselves, but also gradually cooperate with the discipline construction and ultimately lead the curriculum to achieve a diversified innovation model, to play the university in the early detection of outstanding talents and personalized and efficient training in the great value. This also hinders traditional teaching; the experiment proves that the high standard of professional background needs of university teachers cannot be ignored. The cultivation of aesthetics cannot fully present the teaching effect, the practice link still needs to

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occupy the proportion in the teaching. Through the learning process can complete the data collection and analysis, non-stop discussion of learning methods.

### Explore the Means of Sculpture Learning

The most effective means of ensuring learning effects based on big data sculpture. Now a variety of intelligent terminals, instant online network transmission, interactive social networks (WeChat, QQ), convenient and efficient technology, the use of a one-time completion of the form of the curriculum evaluation system, teacher evaluation-oriented, reading, learning video, interaction and other links to form a variety of score accounting, announced the end of the traditional evaluation system, mobile phone learning app easy to use, sculpture teachers as long as the full use of these new information channels and technologies, sculpture teachers can be the large-scale and efficient study of sculpture practice and sculpture learning behavior "This is the research opportunity that the era of big data has given us.

### The Concept of Big Data Sculpture Courses

Based on whether big data is student-centric, shaping the concept of big data sculpture curriculum: emphasizing that teachers can still plan and implement classroom teaching independently by reference to the syllabus, the essence of the curriculum emphasizes the link between teachers and students and interactive teaching methods. Learners discuss and complete reference assessment models, and hybrid teaching becomes possible. The core strength of online sculpture teaching is the clarity of teaching content, sculpture form, traditional sculpture technology application training in a certain technical means synthesis of new understanding and application, teachers and students in the way of thinking changes, ability training and development according to the curriculum independent design and implementation of the core ability, that is, teaching technology and methods of use, requiring teachers to think more seriously about sculpture teaching content and resource construction, and to achieve teamwork.

## Conclusion

This paper mainly explores the logical connection between big data, “Day New School” and sculpture teaching. The epidemic era triggered the "Day-New School" to replace traditional teaching, this emergency to the development of sculpture teaching challenges and integration into new opportunities. The teaching platform uses people's thinking mode of analyzing data to explore the resources and research paths in personalized teaching. The era of big data inevitably affects sculpture teaching in China, and the practitioners of sculpture teaching must be fully prepared to meet new challenges and seek better development opportunities. The growth strategy, learning evaluation, and individual participation of college students are the most essential and inevitable requirements of education.

The epidemic era has become an innovative reform of art education and teaching, and it is also progress, which will effectively improve the efficiency and further improvement of art education in colleges and universities. The open curriculum of the three major global institutions mainly adopts the model, which reflects the learning state of an art student in the present era based on the task-based learning method.

Through the comparison between the curriculum and traditional classroom teaching, the curriculum evaluation system through the transformation of the traditional learning mode of this data analysis network related to learners, the center is biased towards students, the client forms new data on the construction and development of college disciplines gradually arouses the concern of teachers, the traditional sculpture curriculum with heavy skills with the emergence of the epidemic period officially entered the big data era, undoubtedly poses a great challenge to the sculpture teaching staff in colleges and universities, therefore, the transformation of the thinking mode between teaching and learning will gradually become an opportunity. Challenging the research on the educational model of applied sculpture in the era of big data.

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