Analysis on the Influence of Urban Sculpture Development and the Application of 3D Modeling Technology in Sculpture Education

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Abstract. In recent years, with the rapid development of higher education in sculpture in China, more and more colleges and universities offer sculpture-related majors. However, judging from the current process of urban construction in China, the sculpture specialty offered by existing colleges and universities still cannot meet the needs of urban development, and the quality of sculpture education needs to be improved to used the 3D modeling technology. Sculpture education should train comprehensive talents of urban sculpture design, establish effective education mechanism and coordinate development. At the same time, in order to ensure the sustainable and healthy development of urban sculpture art, it is necessary to learn from the advanced experience of similar cities at home and abroad, base on the economic foundation and cultural environment of the city, and promote the development of domestic urban sculpture art from two aspects of institutional environment construction and practical operation[1].

Keywords: Sculpture Education, Urban Sculpture Development, 3D Modeling Technology

1. Introduction

With the acceleration of urbanization in China, the rapid development of urban society and economy has brought people's pursuit of cultural and spiritual levels, namely, human needs. However, for a long time, China's economic development and human development are not coordinated, to a certain extent, resulting in the lack of humanistic care. At present, people's requirements for sculpture in domestic cities are no longer staying on the simple aesthetics of the past, and people's requirements for the aesthetic sense of urban sculpture and the design sense of the environment are gradually increasing. Therefore, as a part of public space, urban sculpture should not only meet the needs of social development to a certain stage, but also have the relationship between environment and people[2]. This is not only a close relationship of coexistence and interaction, but also a necessary space and basic requirement for the future development of urban sculpture. With the continuous development of urban sculpture in China, every link of these links will gradually penetrate and penetrate in the future, so as to achieve the realm of harmony and unity. Therefore, it is of great
practical significance to study how urban sculpture develops healthily and permanently in the current urban environment to make urban sculpture a permanent public art.

2. General situation of sculpture education in China
The development of urban sculpture is inseparable from the education and inheritance of sculpture art, which is also the foundation of any kind of art inheritance. At present, the education of sculpture art is not only in the form of teachers and apprentices, but also in the form of College teaching. However, no matter which form of teaching requires certain skills. Through the transmission of traditional skills, continuous technological improvement and conceptual innovation, urban sculpture art forms can continue to develop with the city, better provide a set of functions and values in one of the public art elements to enhance the image of the city, and create good social benefits[3].

2.1. Current situation of sculpture education development
With the continuous expansion of the city scale, people's demand for humanities is growing, and sculpture education is also flourishing. Not only do art colleges offer sculpture majors, but also many comprehensive universities have joined them. With the rapid development of Sculpture Education in China, the number of schools and students is growing rapidly. However, on the one hand, from the perspective of market demand, the existing number of students is still not enough. On the other hand, the quality of higher education still needs to be improved. There are many common problems in the existing large number of sculpture departments, such as unclear positioning, unreasonable and so on. Therefore, it is necessary to make clear as soon as possible what form sculpture education should exist in, whether it should focus on theory or practice, or both. At present, the major of sculpture pays more attention to the teaching of history theory than to the teaching of practical technology and design[4]. Therefore, the education of sculpture should cultivate multi-level and multi-type professionals.

2.2. Course setting of sculpture major
Through the analysis of the current curricula of sculpture major in Colleges and universities, we can see that the curricula of sculpture colleges and universities are mainly divided into the following categories, as shown in Figure 1 below.

**Figure 1.** Main course setting of sculpture major.

Some colleges and universities have offered design courses. Their training mode not only pays attention to the ability of sculpture, but also pays attention to the social function of sculpture. They consciously cultivate the ability of landscape and explore the direction of landscape sculpture and design sculpture. Others pay attention to cultivating students' understanding of landscape and design in the course design. The courses they begin will overlap with those of architecture and landscape
specially, which makes students pay more attention to the relationship between sculpture and landscape[5].

3. Problems in sculpture education and in the development of urban sculptures

3.1. Sculpture education lacks culture training
At present, the education of sculpture in China pays more attention to teaching skills than to preaching. In the process of sculpture education, more attention is paid to its artistry, ignoring the spiritual level of humanism, failing to integrate the traditional plastic spirit and cultural connotation into the teaching. Domestic sculpture teachers have been baptized by Western art and are still in the image of Western education. In the daily sculpture education, most colleges and universities only pay attention to the cultivation of students in the field of design and computer skills, but the education and penetration of Chinese traditional culture still need to be further improved.

3.2. Sculpture education lacks the study of social function
Culture is the soul of a city, and city sculpture represents the right will and spiritual symbol of a city space. Urban culture is a hierarchical value system, which can be divided into four aspects from inside to outside as shown in Figure 2.

![Figure 2. Four levels of urban culture.](image)

However, at present, the sculpture talents trained by domestic sculpture education cannot fully understand the basic principles and aesthetic characteristics of sculpture art. Therefore, sculpture education should be based on a deep understanding of urban culture, change the direction of training timely, abandon the old concepts, innovate the training objectives, so as to meet the needs of the progressive society.

3.3. Urban lack of mature appreciation of urban sculpture
Through years of construction and training, most citizens have a basic understanding of urban sculpture, and have a basic recognition of improving the quality of living space through urban sculpture. However, from many aspects, the current popularity of citizens' sculpture art knowledge is still insufficient, and a mature and high-level urban sculpture appreciation group has not been trained. This is related to the insufficient participation of citizens in the current urban sculpture construction mechanism in China, resulting in a lack of elegant artistic atmosphere. Secondly, the difficulty of urban sculpture protection increases, resulting in frequent acts of destruction, which is not conducive to the healthy development of urban sculpture.

4. Ways to solve the problems in sculpture education and urban sculpture development
Firstly, curriculum should be set up reasonably according to social needs. Specialty setting should be based on the principle of adapting to social needs and integrated with the overall planning of
discipline development. Secondly, schools should set up sculpture majors relying on the advantages of disciplines, and form a framework of interrelated and cohesive support with the advantages of disciplines. In addition, we should open up the information and communication platform for students, build a high-level teaching staff based on the innovative characteristics of contemporary sculpture design, and realize project-based Sculpture Education and teaching. Besides, we should take academy as the first and application as the basis to continuously strengthen the exploration of teaching, so as to make the current Sculpture Education to a higher level. We should learn from foreign advanced experience in the specific mechanism and process details of urban sculpture construction. At the same time, we should pay attention to preserving national characteristics and traditions and promoting correct values. We should attach importance to the support of the whole social cultural construction for urban sculpture creation, promote the publicity of excellent urban sculpture, and protect the enthusiasm of the sculpture creators. Finally, we should change our understanding of urban sculpture from the perspective of concepts, support potential sculptors, and constantly promote the improvement of the level of urban sculpture[6].

5. Conclusion
The rapid development of the city has given more missions and requirements to urban sculpture. With the rise of sculpture education in colleges and universities, the boundaries between sculpture and other similar disciplines are gradually blurred. The establishment of sculpture specialty should fully rely on the advantages of disciplines, broaden students' information and communication platform, constantly increase students' sculpture experience, and guide a broader way out for the development of their sculpture art life. At the same time, as an important part of urban construction, urban sculpture needs to uphold the concept of sustainable development based on 3D modeling technology. This is very beneficial to the construction and development of urban sculpture in China. Therefore, combining the sculpture field with the development of new eco-city sculpture, we should build urban sculpture step by step on the premise of respecting the inherent law of art and conforming to contemporary aesthetic concepts, making urban sculpture an important part of the construction of urban ecological civilization.

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