

# Practice and Consideration of Research Feedback Teaching in Clothing Color Teaching——Take Silk Painting of Ming and Qing Dynasties as an Example

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## Abstract

Teaching is the basic function of every teacher. The frontier information and technology of clothing subject are developing rapidly. New technology and new perspective of subject development should also be added to teaching. In order to realize the development of scientific research and teaching, this paper combines the design ideas and achievements of scientific research into the teaching of clothing color, and the application of silk painting technology and color matching design into classroom teaching. The practice of back-feeding teaching through the use of Ming and Qing Buzi color pattern examples is discussed from the aspects of scientific research project design, research project theme, training of innovative talents and scientific research feedback. It also summarizes the research and feedback teaching, and better carries out scientific research work in the future to realize the teaching value and academic value of scientific research.

## Keywords

Scientific research back-feeding teaching; silk painting; clothing color; complement pattern

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## 1. Introduction

Humboldt pointed out that the main task of university teaching is not to "teach" the task of college students nor to "learn". College students must master independence and engage in "research." As for the work of university teachers, it is to induce students to "interest in research" and further guide and help students to do research. Undoubtedly, teaching is the most basic function of every teacher. Scientific research is the purpose of teaching and has a feedback effect on teaching. Scientific research and teaching are not contradictory. In the process of scientific research, teachers bring the latest research results into classroom teaching, promote teaching development through scientific research practice, improve teaching quality and improve teaching system. In the process of teaching, problems can also be found, which can become a subject of scientific research. Therefore, as a university teacher, while doing a good job in scientific research, the author integrates the information, new design trends, research methods, means and research results of the forefront of scientific research into the teaching of clothing color, finds the balance between scientific research and teaching, and realizes the integrated development of both.

## 2. Current Situation of Apparel Color Teaching

At present, there are a large number of academic research universities in China, and most of them are engaged in clothing teaching and research. So that the teaching work in the central position is not paid attention to and the teaching is impacted, which causes the quality of teaching to decline by putting the cart before the horse. In the scientific research, the proportion of input and output is out of balance. Due to the eagerness to make scientific research achievements and neglect the teaching work, it is easy to lead to academic corruption. The particularity of higher education research and

back-feeding teaching cannot copy the model of academic research in undergraduate comprehensive universities.

Clothing color is one of the basic courses of fashion design. For a long time, the practice teaching of "clothing color" has heavy theory, light research, heavy imitation, and light innovation. The students who have been trained will only apply the color matching techniques of the hook line, and they will not be able to go all out for the enterprise field research and development project, and lack the ability of project practice and application. In the traditional teaching, the teacher habitually instills the color knowledge of the clothing, and the homework basically stays in the text practice. The students have no way to start the actual color matching in the clothing display, and lack the overall matching ability. Generally speaking, most art students in higher vocational colleges have lazy learning habits. They usually have poor self-consciousness in class, and their homework is procrastinated after class. The quality of their work is always unsatisfactory and they lack long-term learning goals. Students are not impressed by color knowledge after class. They memorize it by rote and forget it after reading, so they can not apply it flexibly.

Furthermore, the training project is set up because of the teachers' personal expertise, lacking the timeliness of the teaching content, especially in the color practice training, lacking the docking with the enterprise cooperation project. Students often get caught up in the project training. The submitted works often neglect the clothing color due to age, occupation, personality, consumption and lifestyle, and lack the ability to solve practical problems. Faced with the teaching status of clothing color, the traditional theoretical module and the color changing teaching method of Linyi have not adapted to the development of professional clothing profession and the demand of industry talents. In order to adapt to the development of the times and their talent needs, teachers need to transform a single teaching function, introduce scientific research projects into classroom teaching, and transform scientific research advantages into effective teaching skills. Effectively realize the practice of research and feedback, in order to cultivate effective applied talents that serve the society.

### **3. Practice of back-feeding teaching**

#### **(1) From research projects to color teaching**

In the color teaching of clothing, it is necessary to carry out basic teaching research as well as subject research, so that it can be used in teaching. In order to solve this series of problems, on the one hand, through the author's integration of production and education, the "application-oriented teaching practice research topic of "Apparel Color" in higher vocational education" is used to cultivate students' color cognition and matching ability. On the other hand, through my guidance of the new seedling project for college students in 2017, the drawing and color matching of Ming and Qing complement patterns are introduced into the teaching of clothing color, effectively solving the key and difficult points encountered in the teaching, and improving the practical application ability of students' color matching. Under the background of a strategic cultural background, guided by market orientation, teachers are guided by the research and development task of service for Zhejiang fester Garments Co. Ltd. Instead of paper painting, silk painting is used to design, dye and match silk fabrics with reactive dyes.

#### **(2) From the Design Theme Level of Scientific Research Projects to Teaching**

Nowadays, cultural and creative industries are developing vigorously, which has become an important driving force for socio-economic and cultural development. Enterprises entrust project teams to try to excavate the connotation of costume culture from the ancient feudal system as a reference for fashion trends in the next year. The author led the students of three classes of grade 17 in clothing, excavated the color matching of Ming and Qing Dynasty complement pattern from the feudal clothing system as a case of clothing color teaching, docked basic knowledge of clothing color and color form expression with the principle of pattern color composition. Choosing the theoretical sufficient cost as the support point, improving the traditional knowledge point instilling mode,

adopting the modern high vocational students' interest path teaching method, and driving the full curriculum practice content with the teacher scientific research project.

First of all, during the Ming and Qing Dynasties, officials decorated a square pattern on the front chest and back of the robes, called complements, which were usually embroidered with colored threads and woven. The civil official embroidered the poultry pattern to show civilization, the military officer embroidered animal prints, to show the mighty, civil and military officials because of the different levels of official positions, therefore, the content of the patchwork and the color matching point to the social superiority status is also different. This knowledge point docks the color performance teaching unit of the clothing, the crane is the complement of a civilian officer, and the golden pheasant is the supplement of the second-class civil servant. Extracting the crane and the golden pheasant as the basic pattern, and studying the difference in the status of the ancient officials mapped by the different color combinations between the two. Under the support of the research resources of teachers, I will think about how to use the color of the patch to attract the attention of consumers, and consider the color of the two-piece golden chicken complement pattern from the two aspects of color contrast and harmony. The traditional yellow and blue colors are used to highlight the color effect, and the partial use of rose red, grass green and color combination makes the picture play a smooth role. (As shown in Figure 1) The purpose of grasping purple, yellow, blue, and orange is to prevent the color of the complement from being too monotonous. Therefore, highlighting the visual effects on the color matching technique should enhance the contrast of the three attributes of the color, and the contrast of the complementary colors should be weakened when blending. The color training works pay more attention to the age, occupation, lifestyle, consumption ability and other comprehensive factors of the color matching of clothing, so as to avoid the situation of making cars behind closed doors and talking about soldiers on paper at the level of teaching and learning. Through in-depth and shallow research on the pattern of complement, the author drives students to practice the subject, and in the corresponding clothing color expression unit, improves students'color matching level in real life and scientific research ability. Through the participation of students in the practice of the subject, we can guide the teaching of clothing color, realize the real feedback of scientific research and achieve good results in teaching. Scientific research and teaching complement each other. The author introduces the research process, research results and research methods of Fister Enterprise's scientific research projects into teaching, realizes the practicality of back-feeding teaching, and converts the practical experience of scientific research into targeted color teaching results. On the other hand, the targeted discussion of teaching cases also promotes the in-depth research of scientific research projects, and finds the shortcomings of research and the areas that need to be improved. Using scientific research training projects instead of blind homework, the blind spots of research can be found in students'training and communication, and can be transformed into the research content of the subject in time.



Figure 1 Caragana patch pattern Source: I design and draw with students

#### 4. Introducing New Discipline Technology to Cultivate Innovative Talents to Course Teaching

Combine scientific research feedbacks with teaching content, and embody advanced technology and methods in clothing color teaching content. In silk painting, one of them can train students' ability of hand-drawing and color matching directly on silk fabrics. Compared with paper painting, it draws lines and then colors them. Whether from the technical level or the process, it is more difficult to experience the students' ability of hand-drawing and color matching. The painting principle of silk painting is to use self-made isolation rubber pen, which is made of natural rubber water with a specific proportion. The color matching can be made into color isolation rubber, and the decorative shape of the patch pattern can be outlined with isolation rubber to form the resistance of silk fabric. In terms of technology, students must strictly control the viscosity of isolation glue, and the lines described are not dizzy, so as to achieve a stable, accurate and smooth technological level. Through dyeing with weak acid dyes once and many times in the decorative space of the complement pattern, combined with the push of clear water, the same color (Fig. 2), medium difference color (Fig. 3), contrast color (Fig. 4), complementary color (Fig. 5) small tone exercises were completed. The hue practice is finally placed in a high temperature generator undergoing high temperature evaporation, fixation, water washing, and subsequent processing. In the collision and penetration of different color dyes, a rich decorative effect is produced to consolidate the color organization and form performance unit training. Through the students' active participation in the innovative design of the Ming and Qing Buzi patterns and the practice of color matching scientific research, the teaching system of the color course of clothing is further improved. The content of the course is combined with the research and development projects of local enterprises, and the teaching is more grounded. Using scientific research to feed back the teaching, not only increase the information volume of the original course, but also broaden the students' learning ideas, can motivate students to explore, think, and solve the corresponding problems in the difficult problems encountered in scientific research, and contribute to the teaching. Combine the latest technology of scientific research with the education of innovative talents to achieve true anti-feeding quality education.



Figure 2  
Student  
work



Figure 3  
Student  
work



Figure 4  
Student  
work



Figure 5  
Student  
work

#### 5. The Enlightenment of Scientific Teaching of Nursing Clothing

##### (1) Research helps teachers grow

Scientific research contributes to the improvement of teachers' professional level. Compared with teaching, the results of scientific research are more significant and effective, which helps teachers to walk in the forefront of higher vocational disciplines and helps to thoroughly grasp the new trends of teaching. Through scientific research practice, the key technologies of solving the problem of color matching are brought into the color teaching, and the rigorous scientific research attitude maintains a high level of classroom teaching. Teachers' scientific research background and experience in the classroom are the accumulation of the practice of clothing color teaching, and integrate the essence of scientific research into the classroom. It is undeniable that there is an intrinsic relationship between

teaching and scientific research. Appropriate scientific research tasks can better drive teaching, improve the overall teaching staff, enhance students' enthusiasm for learning, and do a good job of practical pre-job training.

### (2) Bringing Teachers' Professional Skills into Full Play in Scientific Research

In the work of colleges and universities, teachers play different advantages in scientific research and teaching so as to contribute their own strength to the professional construction of schools and the cultivation of talents. Teachers in their professional areas of expertise in-depth research, then he will be integrated into the classroom teaching of its research flashpoint. The author has certain attainments in design and hand drawing. Therefore, in the teaching of clothing color, based on the "one belt and one road" international cultural strategy, we should combine the silk design and color matching with the teaching and creative industries. Every year, when talking about fashion color application units in clothing color teaching, students always have doubts about knowledge points, so as to bring the fashion color matching of complement pattern into the classroom for real gun practice. First, lead students through market research to get the predicted popular color; secondly, according to the local natural environment and living habits, prejudge the popular color. Finally, according to the theory of grasping the evolution law of the next year's fashion color, each student adjusts the first draft of his own color, and repeatedly pushes the elements of consumer psychological factors, consumption levels and consumption dynamics to finally determine the popular color matching of the patch pattern. In the final decision, the text is used to help people understand the inspiration, texture and meaning of the popular color. The work finally invites the business instructor to use the commercial vision to conduct professional reviews. The popular color teaching realizes the expansion training of the patch pattern color matching design. The author has a solid color matching in silk painting. In the process of explanation, it helps students to combine the abstract fashion color theory on the textbook with the specific training, to better clear the ideas and master the courses. The research, training steps, tools, techniques and finished products that I have done on silk painting for many years can give students a more intuitive understanding and strengthen the understanding and application of theoretical knowledge.

### (3) Scientific research contributes to the cultivation of innovative talents

The real purpose of scientific research is to enable students to develop hands-on and practical habits, teach students how to learn, how to improve, and how to innovate. In the deepening of teaching reform and innovative talent training mode, the college has actively adapted to the needs of the society and has been in the forefront of the national vocational colleges in the design of clothing and apparel design. The introduction of Huahong digital inkjet printer, German digital embroidery machine, the establishment of pattern printing studio and master studio, through the use of scientific research projects as a carrier, allows teachers to deeply understand and master the process of silk painting and design and production points. Find breakthroughs in direct hand-painted and release-resistant anti-staining hand-drawn media materials. Explore the artistic expression space created by silk paintings due to different materials, tools and media. Based on the concept of clothing color curriculum development, silk painting can be used as a supplement and enhancement of clothing color, so that some high-quality students can experience the high-end drawing of hand-painted silk scarves. Under the guidance of the author, the students successfully declared the new seedling project and invented the "ZL 201721524484.5" utility model patent. And transfer its success to Zhejiang Fister Garment Co., Ltd., which is the best example of research and development of back-feeding teaching, and ultimately let students produce their own value in the curriculum, achieve their own height, and achieve self-affirmation. In the course of R&D, we should pay attention to the development trend of cultural and creative industries, find the most concerned design subjects, inject fresh blood into the training of silk painting and design talents, and insist on the organic combination of scientific research and teaching. In order to cultivate innovative and applied talents, it also opens up a new path for the development of cultural and creative industries under the background of all roads.。

## 6. Conclusion

R&D back-feeding teaching should be rooted in the combination of production, learning and research. Through school-enterprise cooperation and integration of production and education, targeted research projects should be carried out, and cutting-edge information, latest research methods and research results should be brought into clothing color teaching. Based on the frontier research hotspots of garment science, the focus and difficulty of garment color unit teaching are found from enterprises, production lines, industrial chains and social needs. Put the problem-solving ideas, means, and methods into practice, and rise to the theoretical level to further guide teaching. Such research and back-feeding teaching is based on real-world research, which is the best illustration and feedback for teaching. It can be seen that the research and back-feeding teaching services serve the teaching and serve the training of talents.

Based on the accumulation of scientific research, the author is rooted in Wenzhou's local cultural and economic development and contributes to the development of local economic, cultural and creative industries. At present, there are no studios, workshops, and enterprises specializing in silk painting in Wenzhou. There are no professionals who have conducted in-depth discussions and research on silk hand-painted crafts. There are no silk painting products in major companies, department stores, shops, and creative parks. It can be seen that the study of silk painting has become the touchstone of local industrial development, and it also makes up for the lack of research and development of silk painting design in Wenzhou. Promote the training of innovative applied talents in local industrial chains, assist in the integration of industry, education and research, and integrate the development of industry, University and research.

Through the scientific research results of silk painting feeding back the teaching of clothing color, students have a better grasp of color theory and practical knowledge, laying a solid professional foundation for clothing color matching and hand painting. Because students have a good art foundation, and constantly explore and improve the design and color matching of complement patterns, they quickly grasp the design methods and application of clothing color, and even have excellent performance in the planning and color analysis of popular colors. Research work is changing with each passing day, and the amount of information is very large. The updating of teaching materials often lags behind the development of disciplines. This strengthens the future of R&D teaching in teaching, pays close attention to the trend of disciplines, and improves students' ability to innovate and practice.

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