

Practice of Guiding Students' Diversified Growth and Development Based on Niche Theory

Xiaolong Ma

School of Humanities and Education, Polus International College, Chengdu 610100, China

27221212@qq.com

Keywords: Niche, Diversification, Growth and Development, Practice and Research

Abstract: Students are a group that has attracted much attention from society. Colleges and universities need to mold college students into people needed by society through various educational methods and channels. The ability of a person to adapt to society is not only a manifestation of a certain aspect of ability, it is human the performance of diversified comprehensive qualities is closely related to a person's ideological and moral character, knowledge and skills, creative ability, sense of collaboration, interpersonal relationship, and health status. Ecological groups occupy a very important position in their lives. However, we have not paid enough attention to the issue of student ecological groups. In view of this, the purpose of this article is to study and practice the diversified growth and development of students based on niche theory. This article first summarizes the basics of niche theory, and then extends its core points. It combines the development of all aspects of contemporary students in our country. It will analyze the existing problems and shortcomings and combined with niche theory to supplement and perfect its mechanical energy. This article systematically expounds the analysis of students' diversified influence factors based on niche theory, and uses questionnaire survey method, field investigation method and other research methods to carry out research on the theme of this article. Experimental studies have shown that, compared with the traditional model of student growth and development, the diversified growth and development of students based on niche theory is superior in many aspects, especially in terms of self-confidence in academic performance, which exceeds 10%, which fully reflects this article Study the feasibility.

1. Introduction

For the country and society to develop in an all-round way, it must be based on the all-round and healthy development of students. Therefore, studying the diversified growth and development of students is of great significance to Chinese education [1-2]. Therefore, niche theory, as a theoretical analysis tool and a window to examine social phenomena, uses it to look at the diversified development of students and provides a new perspective for people to understand the individual differences and diversified development of students [3-4].

In the research on the diversified growth and development of students, many experts and scholars have achieved good results. For example, Freud is a representative figure who pays attention to people's spiritual life from the perspective of psychology [5]. Freud's psychoanalytic theory discovered the unconscious domain of the individual, divided the mind into three stages of development of self, ego and superego, and took a pioneering step on the road of finding a way out for the individual's spirit [6-7]. Heidegger believed that human existence should be regarded as the supreme philosophical ontology, advocated returning to the world of daily life proposed by Husserl, and advocated the realization of "poetic dwelling" on the earth through artistic aesthetics, contemplation and imagination [8].

This article aims to promote the normal and healthy development of students, and aims to guide students' diversified growth and development based on niche theory. Investigate the student groups through field surveys and questionnaire surveys to ensure the scientific validity of experimental data.

2. Practical Research on Guiding Students' Diversified Growth and Development Based on Niche Theory

2.1 Analysis of Student Growth Factors Based on Niche Theory

(1) The influence of the group on individual students

1) Promote individual students' sense of belonging and identification with the group environment

The strength of the individual's sense of belonging and identity to the group. Group cohesion is defined by group characteristics and member characteristics. From the perspective of group characteristics, the group has the power to actively organize its members into the group's target activities, and the group has a high degree of attraction to its members [9-10]. From the perspective of the characteristics of members, members give feelings and reactions to the attractiveness of their group, and are therefore willing to participate in group activities. We have conducted a follow-up investigation on the development of two associations. One of the associations has a stable charter and a sound organization. The annual renewal, new additions, and organizational activities are strictly implemented in accordance with the charter of the organization, and detailed work plans and summaries are made. Arrangement, in the past three years, the association has been expanding, and the way of activities has been constantly innovated, while another association has only relied on personal interests and self-issued activities. In the past three years, the members have not changed much, the activities are few, the internal is loose, and it is gradually declining. The influence of these two groups on their members is obviously different in terms of the expansion of professional knowledge, the improvement of interpersonal skills, the improvement of organizational skills, and the degree of social contact. The strength of group cohesion will directly affect the individual's sense of belonging and identity to the group, and then affect the survival and development of individuals and the entire group [11-12].

2) Promote the socialization process of individual students

In the process of individual socialization, the most important thing is the development of academic work, which promotes the improvement of individual learning and work abilities of college students. Academic development is the foundation for the growth of talents in universities and the foundation for them to settle down in the future. Therefore, college students have a strong demand for academic development. They hope that they can receive a good education, so that they can be well-trained and have expertise in learning. Students in different grades have different tendencies in their academic expectations. Generally, first-year students put the basic courses first, second-year students hope to combine theory with practice, and third-year students hope I have made breakthroughs in my professional courses and can enter the field of professional practice more. In addition to improving the professional skills of college students, the group of college students has also played a significant role in promoting the expansion of the field of knowledge.

2.2 Diversified Management and Guidance of Students

(1) Management and guidance of students' ecological mental health

1) Establish and improve the mental health work system in colleges and universities

Colleges and universities should set up special mental health education centers, fixed psychological counseling or consultation rooms, and support students to form psychological counseling associations spontaneously; strengthen the construction of psychological counseling rooms and counselors in colleges and universities, and provide professional psychological counselors, ideological and political education teachers. Student workers and student volunteers are well organized, and relevant personnel are regularly organized to carry out necessary training and guidance. It is necessary to combine college students' mental health education with students' daily education and management.

2) Fully carry out the publicity and consultation work of mental health education.

Mental health tests are carried out every year when freshmen enter the school, which lays a solid foundation for future work. In addition, an average of 1-2 school-wide mental health lectures are

held every month, and bulletin boards promoting mental health knowledge are regularly produced. Consultation associations carry out various activities, and the establishment of mental hygienists in classes are all effective ways.

3) Grasp the development trends and differences of students' ecological mental health status

Studies have shown that the learning problems, work problems, and life problems faced by students of different grades at various stages are different. Different response measures should be taken according to the group characteristics of different stages to guide the majority of students to correctly understand and treat their own psychological problems. Relieve misunderstandings and doubts, receive psychological counseling and treatment happily, avoid the accumulation and deterioration of problems, and make them calm, emotionally stable, and mentally healthy, and become a mentally healthy person.

(2) Management and guidance of student ecological organization

In the past ten years, the reform of colleges and universities has provided very good development opportunities for the development of college student group organizations. Its group organization has been greatly improved not only in number but also in form, and has become an indispensable group in colleges and universities. It includes both prescriptive groups, intentional groups, patriotic groups, and so on. The prescriptive group organization has developed for a long time, and its organizational form and norms are relatively mature, while the intentional group organization has a shorter development time. There are still many problems, and management and guidance need to be strengthened. It is also mainly such groups, such as associations or fellow-town associations that everyone is very familiar with.

2.3 Establishment of Mathematical model of University Niche

(1) Niche situation model

When determining the ecological niche of x in n university units in the ecosystem of a university, the following formula can be used to calculate.

$$N_x = \frac{S_x + a_x P_x}{\sum_{y=1}^n (S_y + a_y P_y)} \quad (1)$$

Among them, $x, y=1, 2, \dots, n, N_x$ are the niche of x , S_x is the state of unit x , and P_x is the potential of unit x .

(2) Niche evolution model

The niche evolution model is based on the niche width model and the niche overlap model. The width of the niche is in terms of an ecological factor axis, and the type and quantity of resources used in moral education in colleges and universities are used as variables. According to the Simpson index, its expression is

$$B_i = \frac{1}{\sum_{j=1}^R P_{ij}^2} = \frac{1}{\sum_{j=1}^R \left(\frac{S_{ij}}{Y_j}\right)^2} = \frac{Y_j^2}{\sum_{j=1}^R S_{ij}^2} \quad (2)$$

The breadth of the niche is closely related to competition. The wider the niche, the stronger the comprehensive ability and adaptability for survival and the wider the scope of influence.

3. Experimental Research on Guiding Students' Diversified Growth and Development Based on Niche Theory

3.1 Experimental Protocol

In order to make the results of this experiment more scientific and effective, this experiment went deep into a university in a certain place. And conduct a questionnaire survey of college

students. This experiment is an experimental research on the diversified growth and development of students. Through investigations on their academic performance confidence, learning attitude, will, environmental awareness, etc., in order to simplify the analysis of the experimental results, this experiment uses a percent output Calculate and analyze the obtained results using the analytic hierarchy process. On this basis, this research conducted face-to-face interviews with school teachers. This interview analyzes and explores the diversified growth of students. This time we use a ten-point scoring system, where 1 means disapproval and 10 means agree. The gender ratio of teachers in this interview is equal. To ensure the validity of the experimental data.

3.2 Research Methods

(1) Questionnaire survey method

This study set up effective and targeted questionnaires by asking relevant experts. And use this closed method to launch the questionnaire survey, the purpose of which is to promote the correct filling of the surveyed students.

(2) Field research method

This research conducted a field survey and collected data on various aspects of the growth and development of students by going deep into a university in a certain place. These data provide a reliable reference for the final research results of this article.

(3) Interview method

In this study, the data was sorted and counted through face-to-face interviews with teachers and recorded data. These data not only provide a theoretical reference for the topic selection of this article, but also provide data support for the final research results of this article.

(4) Mathematical Statistics

Use related software to make statistics and analysis on the research results of this article.

4. Experimental Analysis of Guiding Students' Diversified Growth and Development Based on Niche Theory

4.1 Analysis of the Growth and Development of Students

In order to make this experiment more scientific and effective, some aspects of the students were investigated in this experiment, and the data obtained are shown in Table 1.

Table 1. Analysis of student growth and development

	Confidence in academic performance	learning attitude	will	Environmental awareness
Niche Theory	76.2%	72.1%	70.2%	68.9%
Traditional	63.7%	65.3%	63.7%	61.0%

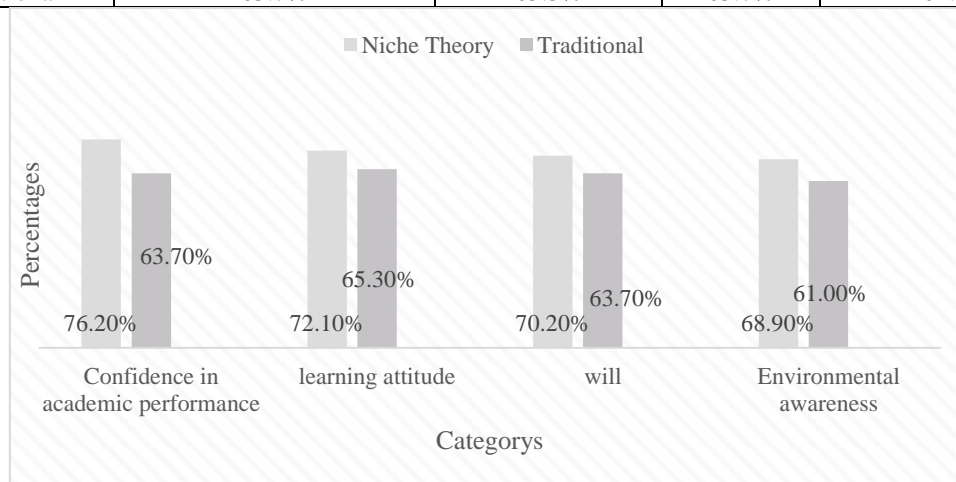


Figure 1. Analysis of student growth and development

It can be seen from Figure 1 that compared with the traditional model of student growth and development, the diversified growth and development of students based on the niche theory is more excellent in many aspects, especially in terms of self-confidence in academic performance, which is more than 10%, which fully reflects this paper studies the feasibility.

4.2 Analysis of Students' Diversified Growth Performance Based on Niche Theory

In order to further research and analyze this experiment, this paper conducts face-to-face interviews with teachers, and the collated data are shown in Table 2.

Table 2. Analysis of Students' Diversified Growth Performance Based on Niche Theory

	Learning environment	Family environment	Social environment	Others
Man	7.62	7.10	6.98	5.26
Woman	6.89	6.66	6.17	5.87

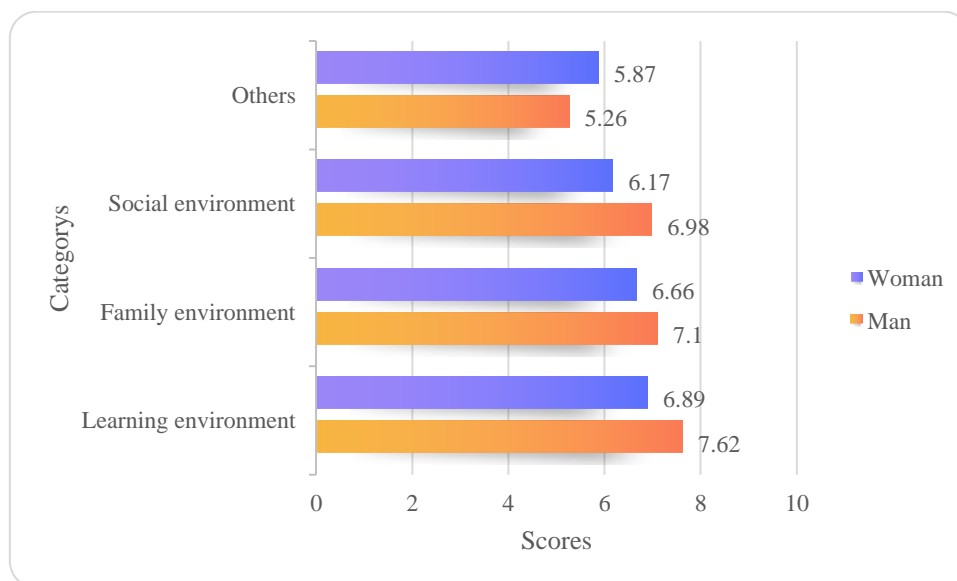


Figure 2. Analysis of Students' Diversified Growth Performance Based on Niche Theory

It can be seen from Figure 2 that the evaluations of students' diversified growth strategies based on niche theory are all above 5, indicating that the research in this paper is feasible. Among them, the evaluation of the learning environment is the highest, which reflects the excellent performance of how far the students grow based on the niche theory studied in this article.

5. Conclusion

In short, the highest purpose of education is to promote the maximum development of individuals. It starts from the basic point of being people-oriented, makes full use of the good environment of university campuses, paying attention to the problems of university students, strengthens the education and guidance of university student group behavior and group organization, and thinking Political education penetrates into the management of college students. And it is an important task that we are facing and an urgent problem that we are facing to meet the urgent needs of college students for progress and development in various forms or channels.

References

- [1] Konopasek L, Norcini J, Krupat E. Focusing on the Formative: Building an Assessment System Aimed at Student Growth and Development. *Academic Medicine*, 2016, 91(11):1492-1497.
- [2] Wang S, Tang Q. Construction of Guiding System for Growth and Development of College

Students under the Student-oriented Concept. *Asian Agricultural Research*, 2018, 10(05):93-95.

[3] Pettepher C C, Lomis K D, Osheroff N. From Theory to Practice: Utilizing Competency-Based Milestones to Assess Professional Growth and Development in the Foundational Science Blocks of a Pre-clerkship Medical School Curriculum. *Medical Science Educator*, 2016, 26(3):491-497.

[4] Pettepher C C, Lomis K D, Osheroff N. From Theory to Practice: Utilizing Competency-based Milestones to Assess Professional Growth and Development in the Foundational Science Blocks of a Pre-Clerkship Medical School Curriculum. *other*, 2016, 26(3):486.

[5] Freud. Impact of a Student Leadership Experience on the Development of Creativity in Undergraduate Students. *Growth: The Journal of the Association for Christians in Student Development*, 2019, 18(1):3-3.

[6] Sung E S, Sung B J. The Analysis of Reasonable Training Time and Training Frequency in Korea and Foreign Countries (USA, Germany, Japan) of Student Athletes. *The Korean Journal of Growth and Development*, 2018, 26(4):401-409.

[7] Hae, An, Nam, et al. The Effect of Physical Function and Social Health Status through the Food Related Life-Style from College Students. *The Korean Journal of Growth and Development*, 2016, 24(1):69-80.

[8] Heidegger. An Analysis of Relationship among the Employment Stress, Anger Expression and Social Support of the University Student in Major of Physical Education. *The Korean Journal of Growth and Development*, 2017, 25(1):59-70.

[9] So, Eun, Lee. Effect of Regular Exercise Habit improves Bone Mineral Density and Arterial Stiffness on University Students. *The Korean Journal of Growth and Development*, 2016, 24(2):51-55.

[10] Sam, Chung, Sung-un, et al. Relationships among Sport Commitment of Taekwondo, Ego-Resilience and Problem Behavior of Elementary School Students. *The Korean Journal of Growth and Development*, 2016, 24(2):42-50.

[11] Jones E K, Kittendorf A L, Kumagai A K. Creative art and medical student development: a qualitative study. *Medical Education*, 2017, 51(2):174-183.

[12] Sung B J, Sung E S. The Analysis of Reasonable Training Time and Training Frequency of Student swimmers in Korea and Foreign Nations (Japan, USA, Swiss). *The Korean Journal of Growth and Development*, 2020, 28(2):127-135.