Study on Employment Ability of College Students in Psychological Capital Dimension

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Min Qiu*, Minte Fan

International College, Krirk University, Thanon Ram Intra, Khwaeng Anusawari, Khet Bang Khen,
Krung Thep Maha Nakhon 10220, Thailand
qiumin1376@sohu.com
*Corresponding author

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Abstract: The employability of college students includes not only the individual ability to get a job, but also the ability to continuously complete work and achieve good career development. At present, the lack of employability of college students is a major obstacle to their smooth employment, and the lack of employability is closely related to the lack of psychological capital. With the methods of literature review and questionnaire survey, this paper analyzes the composition of College Students' psychological capital, psychological status and employment status of college students, and gives reasonable opinions on the improvement of College Students' employability on the basis of a comprehensive understanding of these situations. There is still a big gap between the employability of college graduates and the actual needs of employers (Zhang Jin, 2007; Wang Ting & Zeng Xiangquan, 2009; Wang Ting, 2009; Huang Bingchan, 2015, Cheng Wei, 2017). Combined with the actual characteristics of college students, the positive psychological capital of college students is developed from four dimensions of self-efficacy, optimism, hope and resilience. Psychological capital is a kind of positive psychological state of individuals in their growth and development. If individual psychological capital can be effectively and reasonably developed and utilized, the positive psychological power hidden in individuals and their self-management and recovery ability in the face of adversity can be excavated. The construction of psychological capital intervention system will be of great significance to improve the current employment guidance in colleges and universities.

1. Introduction

Since the enrollment expansion of colleges and universities in the late 1990s, China's higher education is changing from "elite education" to "mass education", and the number of college graduates has increased sharply. Followed by an increasingly large employment force. According to relevant statistics in recent three years, the number of graduates in 2019 and 2020 reached 8.34 million and 8.74 million respectively, even the number of graduates in 2021 will reach 9.09 million. As a result, the employment pressure on college students is gradually increasing. Thus, the employment psychological problems are becoming more and more prominent: such as confusion

and anxiety before employment, depression, antisocial personality and other psychological problems caused by frustration during job hunting. More and more employers and managers realize the importance of human psychological resources. The past human, financial and social capital can no longer meet the requirements of the development of the unit, and psychological capital is becoming the fourth capital that cannot be lacked. Therefore, under the general trend of "difficult employment", it is particularly important to explore how to cultivate college students' healthy employment psychology, improve college students' Graduation ability, make them better obtain high-quality employment, and better transport talents for national and regional economic development.

2. Literature Review

2.1 Psychological Capital

Table 1: Division and measurement evolution of psychological capital structure

| Dimension | Researcher and year | Scale name | Measurement dimension |
|--------------------------|---------------------------------------------------|---------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Two dimensions | Goldsmith (1997) | Psychological capital scale | Self esteem, control points |
| | Ke Jianglin, sun Jianmin, Li Yongrun (2009) | Local psychological capital scale | Transactional psychological capital and personality psychological capital |
| | Larson (2004) | Psychological capital scale | Self efficacy (self-confidence), optimism, resilience |
| Three dimensional degree | Luthans(2006) | Positive mental state scale | Hope, optimism and resilience |
| 8 | Jenson (2006) | Mental capital status scale | Hope state, optimism state, resilience |
| | Barrick (2001) | Psychological capital evaluation scale | Self esteem, self-efficacy, control point, emotional stability |
| | Judge (2001) Cole (2006) | Core Self-evaluation Scale | Self esteem, self-efficacy, control point, emotional stability |
| | Jenson (2003) | Psychological capital evaluation scale | Hope state, optimism state, self-efficacy, resilience |
| Four dimensions | Avey (2006) | Mental capital status scale | Hope, optimism, sense of self-efficacy (self-confidence), resilience |
| | Luthans (2007) | Psychological capital scale | Self efficacy (self-confidence), optimism, resilience, hope |
| | Jiang Jianwu, Zhao Shuming (2007) | Psychological capital scale | Confidence, hope, optimism and tenacity |
| Six dimensions | Letcher (2004) | Big Five personality (psychological capital) evaluation scale | Emotional stability, extroversion, openness, agreeableness and sense of responsibility |
| | Page (2004) | Positive psychological evaluation scale | Hope, optimism, self-efficacy (self-confidence), resilience, integrity |
| | Tian Xizhou (2008) | | Self confidence, hope, optimism, tenacity and positive ability |
| | , , | | Hope, optimism, subjective well-being |
| Six dimensions | Lei Mingqi (2006) | | Emotional intelligence, resilience, citizen organizational behavior |

Source: According to the researcher's literature

Luthans (2003) first put forward the concept of individual psychological capital, which refers to a positive psychological state shown by individuals in the process of growth and development. It has the characteristics of investment and income. It is the core psychological element beyond human capital and social capital. Economists goldsmith, darity and veum (1997, 1998) believe that "psychological capital is an individual characteristic, a relatively stable psychological tendency or

characteristic gradually formed in life. It affects individual work ability, reflects self-esteem and self perception, and has a decisive impact on basic motivation and work attitude." Fredrickson and losada (2005) Among the factors affecting individual cognition and action, positive psychological state (such as confidence, hope, optimism and tenacity) is another extremely important factor in addition to intellectual ability, physiological ability and social resources, which has been ignored by previous studies. Hosen (2003) believes that psychological capital is an internal infrastructure, which requires individuals to invest in various ways such as learning, including cognitive ability, self-monitoring, individual tendency and effective emotional communication quality. Luthans and youself (2007) further revised and improved the definition of "psychological capital". Psychological capital is described as an individual's positive psychological development state, including four positive psychological resources: self-efficacy, optimism, hope and resilience.

To sum up, combined with the research on the dimension composition of psychological capital by many scholars at home and abroad, it is summarized as follows: see Table 1.

2.2 Employability

Table 2: Several Typical Requirements of Employability at Home and Abroad

| Serial | | |
|--------|------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| number | Researcher | Employability elements |
| 1 | Fugate(2004) | Borderless career includes career identification, personal adaptability, social orientation and human capital |
| 2 | Hall et al. (2004) | From the perspective of borderless career, it is considered that adaptability and self-awareness are the two "meta abilities" of career success |
| 3 | Knight&Yorke (2004) | The simple employment model usem involves four elements: the understanding of subject knowledge, professional and general skills, personal quality and metacognitive ability |
| 4 | Gainer(1988) | It mainly includes individual competitiveness and other adaptive skills |
| 5 | Van Der Hei Jde(2009) | Specific professional skills, environmental adaptability and team spirit |
| 6 | American training and Development Association (1990) | Including basic competence, communication ability and influence ability |
| 7 | British Higher Education Quality Council (2002) | Self evaluation ability, communication ability, problem solving ability, teamwork and moral quality |
| 8 | Fugate, Amp and Kinicki(2008) | It mainly includes professional behavior, professional motivation and professional flexibility |
| 9 | Hillage and pallard (1998) | It mainly includes individual skills, learning attitude, expression ability and development vision |
| 10 | Frits Kluytmans(1999) | It is composed of knowledge and skills, human resources knowledge and work willingness |
| 11 | Law(1996) | Personal adaptability, individual market interface and career identification |
| 12 | Goldsmith (1999) | Personal quality, rich knowledge reserves, scientific working methods, evaluation of their own value within the organization and evaluation of their own value outside the organization |
| 13 | Rothwell, Amp and Arnold (2007) | Evaluation of the value of Baiji position within the organization and the value of Baiji position outside the organization |
| 14 | Li Enping, Niu chonghuai, Dong Guohui(2008) | Basic ability, professional ability, personal characteristics and social adaptability |
| 15 | Yang Xuhua (2012) | Character quality, emotion control ability, work competence, career planning consciousness team |
| 16 | Yang Xiaonan, Zheng Wei (2012) | Cooperation consciousness, personalized thinking cognition, adaptability, autonomous learning ability |
| 17 | Liu kuiying, Ying Lina, Huang Chunping (2008) | Personal quality ability, teamwork ability, leadership ability, professional knowledge ability, problem-solving ability, innovation ability and emotion control ability |

Source: according to the researcher's literature

The concept of "employability" was first put forward by the British economist ebveirdgeu in

1909. With the continuous development of the times, the employment policy and employment environment in different periods are also changing. Hillage and Pollard (1999) said that employability not only means one's own quality and skills, but also means that one can obtain a more lasting employment career than others. Bennett (1999) proposed that employability is not only an independent concept, but a compound concept radiating from multiple angles. It is the possibility for workers to obtain employment in the internal and external environment. Clarke (2008) summarized the concept of modern employability by consulting and studying relevant literature, and summarized it into three aspects: institutional factors, supply factors and demand factors. Rajani (2015) studied and summarized the concept of employability. He proposed that employability is the ability to obtain initial employment, maintain employment, change roles in the same organization and obtain new employment when necessary. He believes that its essence is the ability and capital to choose employment between various jobs. Luthans and Youssef (2007) positive psychological capital consists of four dimensions: efficacy, hope, optimism and resilience.

To sum up, based on the research on employability indicators by relevant scholars and research institutions, this paper summarizes them: see Table 2.

2.3 Relevant Research

According to the past academic research on psychological capital, there are many literatures that show that psychological capital is related to individual ability and outcome variables. Scholars Jiang Jianwu and Chen Tingting (2016) believe that improving college students' psychological capital is an effective way to strengthen their employability and integrate with society as soon as possible. Du Yanyan and Gong Tingting (2020) investigated the employment psychological status of application-oriented undergraduates, explored the covariant relationship among psychological capital, employability and employment results, and constructed a structural equation model to prove that psychological capital has a positive predictive effect on employability. The research of Dang Yipei and Liu Dawei (2019) shows that there is a significant positive correlation between College Students' psychological capital and employability, and psychological capital has a strong positive effect on predicting employability.

Wang Weiyao (2018) constructed a mechanism model of the impact of psychological capital on employment results based on the resource theory model. Zheng Wandi, Chen Weiyan and Wei Jinyang (2020) pointed out that great changes have taken place in the current employment market environment from the perspective of psychological capital, which has a certain impact on the employment of college students. Based on the existing research, this paper deeply discusses the causes of College Students' employment difficulties, and puts forward strategies to improve college students' self-efficacy, enhance their employment vision, strengthen emotional management and objectively deal with setbacks, in order to provide guidance for college students' employment from the perspective of psychological capital.

Through the above review, it can be preliminarily concluded that psychological capital is an important individual resource to promote personal growth and has an important impact on the improvement of personal ability. Therefore, the author believes that college students' psychological capital should be one of the core resources affecting college students' employability.

3. Method

3.1 Research Object and Data Collection

This study takes college students as the parent group and the dependent variable is employability, so the subjects of the questionnaire are fresh senior graduates. The research samples were collected

in two time periods. The first batch was the pre-test questionnaire, 215 questionnaires were distributed, and 189 valid questionnaires were recovered. The second batch is the formal questionnaire survey time (June 2021). The formal questionnaires were distributed to 1028 senior graduates from 5 domestic universities, and 926 valid questionnaires were effectively recovered. The first batch of prediction samples were used to analyze the item analysis, exploratory factor analysis and reliability analysis of this research scale; The second batch is a formal sample to test the research hypothesis.

3.2 Research Methods

Through literature research, this paper systematically analyzes and arranges the relevant literature such as psychological capital and employability. Through the questionnaire survey, understand and master the current situation of College Students' employability, explore the employability that college students should have, and conduct research and analysis. Finally, using the quantitative research method, the research results are analyzed and sorted out, and the methods and ways to improve the employability of university students are obtained.

3.3 Research Tools

3.3.1 Psychological Capital Scale

This paper adopts the positive psychological capital questionnaire prepared by Zhang Kuo (2010) and other researchers. The questionnaire is divided into four dimensions, a total of 26 items, which is suitable for the measurement of college students. Self efficacy and resilience contain 7 items respectively, and hope and optimism contain 6 items respectively. The scale adopts a 5-point scoring form, from completely inconsistent to fully consistent, with 1-5 points respectively. The higher the total score of the questionnaire, the better the psychological capital level of College Students' participants. After re testing the reliability of the positive psychological capital questionnaire (PPQ), all factors of the questionnaire have very good reliability and validity.

3.3.2 Employability Scale

By sorting out the previous literature and combining the analysis results of interview method, this paper intends to use song Guoxue (2008) college students' employability questionnaire to divide college students' employability into career acquisition ability and career development ability. Among them, there are 9 items in the dimension of career acquisition ability (c1-c9) and 6 items in the dimension of career development ability (c10-c15). Using Likert's five level scale (from 1 to 5, representing the ability level from low to high) to investigate the employment professional quality of college students. The test shows that the scale has excellent reliability and validity.

4. Data Analysis and Results

4.1 Difference Analysis

Table 3: Gender differences between variables

| Variable | Female M | SD | Male M | SD | t | p | d | Difference comparison |
|-----------------------|-------------|--------|-----------|---------|--------|-------|--------|-----------------------|
| Psychological capital | 3.8073 | .76052 | 3.5048 | 1.12875 | -4.593 | <.001 | -0.349 | Female>Male |
| Employability | 2.9388 | .77863 | 3.1747 | .93941 | 3.781 | <.001 | 0.287 | Male>Female |

Table 4: Only-child differences between variables

| | Yes | | No | | | | | Difference |
|-----------------------|-------|-------|-------|-------|--------|-------|--------|------------|
| Variable | M | SD | M | SD | t | p | d | comparison |
| Psychological capital | 3.771 | .8349 | 3.713 | .8952 | 0.941 | 0.347 | 0.066 | - |
| Employability | 2.994 | .7967 | 3.000 | .8423 | -0.102 | 0.919 | -0.007 | - |

Table 5: Differences in family residence between variables

| Family residence | 1C | ity | 2Coun | ity seat | 3R | ural | | | Difference |
|-----------------------|-------|-------|-------|----------|-------|--------|-------|------|------------|
| Variable | M | SD | M | SD | M | SD | F | p | comparison |
| Psychological capital | 3.786 | .8584 | 3.781 | .7267 | 3.578 | 1.0122 | 4.899 | .008 | 1,2>3 |
| Employability | 3.083 | .8274 | 2.957 | .7888 | 2.864 | .8449 | 5.940 | .003 | 1>3 |

Table 6: Professional differences between variables

| Variable | Major | M | SD | F | p | Post-inspection |
|-----------------------|--------------|-------|-------|-------|------|-----------------|
| Psychological capital | Liberal arts | 3.729 | .8835 | 1.301 | .268 | - |
| | Science | 3.867 | .7699 | | | |
| | Engineering | 3.700 | .8935 | | | |
| | Art | 3.767 | .9238 | | | |
| | Physical | 3.637 | .9446 | | | |
| Employability | Liberal arts | 3.132 | .8548 | 1.327 | .258 | - |
| | Science | 2.998 | .8857 | | | |
| | Engineering | 3.007 | .7910 | | | |
| | Art | 2.801 | .9383 | | | |
| | Physical | 2.842 | .9766 | | | |

Table 7: Differences in family economic status among variables

| | Family's financial situation | M | SD | F | p | Difference analysis |
|---------------|------------------------------|-------|--------|-------|------|---------------------|
| | 1 Not bad | 3.570 | .8566 | 7.680 | .000 | 3,4 > 1,2 |
| Psychological | 2 General | 3.671 | .9068 | | | |
| capital | 3 Good | 3.906 | .7495 | | | |
| | 4 Excellent | 4.421 | .5048 | | | |
| | 1 Not bad | 3.004 | .6797 | 6.230 | .000 | 3 > 2 |
| Employability | 2 General | 2.931 | .7954 | | | |
| | 3 Good | 3.182 | .8896 | | | |
| | 4 Excellent | 3.398 | 1.1750 | | | |

Table 8: Differences in Father's Education between Variables

| Variable | Father's education | M | SD | F | p | Difference analysis |
|-----------------------|----------------------------------------|-------|--------|--------|------|---------------------|
| | Primary school | 3.352 | 1.1131 | 12.328 | .000 | 3,4 > 1 |
| | Junior high school | 3.634 | .9025 | | | |
| Psychological capital | Technical secondary school/High school | 3.819 | .8455 | | | |
| | College/Undergraduate | 3.917 | .6725 | | | |
| | Primary school | 2.842 | .7793 | 3.561 | .014 | 4 > 1 |
| | Junior high school | 2.992 | .7823 | | | |
| Employability | Technical secondary school/High school | 2.954 | .8831 | | | |
| | College/Undergraduate | 3.135 | .8151 | | | |

In order to test the difference between the research variables in the various background variables, this study used independent sample T test and one-way analysis of variance, in which two-level variables, such as gender, were subjected to T-test; multi-level variables, such as family economic status, were subjected to analysis of variance (F). The T test shows that there are significant gender differences in psychological capital and employability. Women's psychological capital scores are higher than men's, and men's employability scores are higher than women's; there is no difference in only-children; there is a significant difference in family residence, with the city being higher. There is no significant difference in majors; the psychological capital and employability of students with better family economic status are significantly higher than those of students with poor family

economic status; the higher the parent's educational background, the higher the student's psychological capital and employability level. See the comparison (table 3—table 10)

Table 9: Differences in Mother's Education between Variables

| Variable | Mother's education | M | SD | F | p | Difference analysis |
|-----------------------|----------------------------------------|-------|--------|-------|------|---------------------|
| | Primary school | 3.519 | 1.0900 | 4.270 | .005 | 4 > 1 |
| | Junior high school | 3.731 | .8722 | | | |
| Psychological capital | Technical secondary school/High school | 3.722 | .8750 | | | |
| | College/Undergraduate | 3.875 | .7029 | | | |
| | Primary school | 2.855 | .8255 | 2.778 | .040 | 4 > 1 |
| | Junior high school | 3.033 | .8748 | | | |
| Employability | Technical secondary school/High school | 2.945 | .7560 | | | |
| | College/Undergraduate | 3.097 | .8316 | | | |

Table 10: Descriptive statistics of variables

| Variables and dimensions | Number of questions | M | SD |
|----------------------------|---------------------|--------|---------|
| Self-efficacy | 7 | 3.9175 | 1.04007 |
| Toughness | 7 | 3.8047 | 1.06885 |
| Hope | 6 | 3.9392 | 1.09128 |
| Optimism | 6 | 3.2660 | 1.09164 |
| Psychological capital | 26 | 3.7318 | .87629 |
| Career acquisition | 9 | 3.1829 | .98159 |
| Career development ability | 6 | 2.8125 | .96788 |
| Employability | 15 | 2.9977 | .82748 |

4.2 Related Analysis

It can be seen from Table 11 that there is a two-by-two positive correlation between the various dimensions of psychological capital and the various dimensions of employability, that is, the higher the scores of students in self-efficacy, resilience, hope, and optimism, the higher the scores in career development ability and career acquisition ability.

Table 11: The dimensions of psychological capital are related to the dimensions of employability

| | Self-efficacy | Toughness | Норе | Optimism | Career acquisition | Career development |
|----------------------------|---------------|-----------|--------|----------|--------------------|-----------------------|
| Self-efficacy | 1 | | | | | |
| Toughness | .652** | 1 | | | | |
| Hope | .651** | .634** | 1 | | | |
| Optimism | .477** | .479** | .449** | 1 | | |
| Career acquisition | .327** | .290** | .295** | .245** | 1 | |
| Career development ability | .261** | .231** | .216** | .139** | .441** | 1 |

Note:*p<0.05 **p<0.01 ***p<0.001.

4.3 Regression Analysis

Construct a regression model with psychological capital as an independent variable, employability as a dependent variable, gender, family residence, family economic status, father's education, and mother's education as control variables. Among them, gender and family residence are categorical variables, and coded as dummy variables are included in the regression equation, and women and rural areas are respectively used as reference groups. The results are shown in Table 12. After controlling for background variables, the regression model is significant, F=27.520, p<0.001, all variables explain 17.3% of the variance of employability. The VIF in the model is less than 10, indicating that there is no collinearity problem. In the model, psychological capital can

significantly positively affect employability, β =.372, p<.001.

Table 12: Regression analysis of psychological capital to employability

| | | · | Dependent variab | le: Employability | <i></i> | |
|------------------------------|-----------|------|------------------|-------------------|---------|-------|
| | В | se | β | t | р | VIF |
| Male | .356 | .059 | .186 | 6.004 | .000 | 1.072 |
| City | .119 | .062 | .072 | 1.926 | .054 | 1.538 |
| Country town | .073 | .072 | .037 | 1.004 | .316 | 1.524 |
| Family's financial situation | .125* | .050 | .081* | 2.491 | .013 | 1.162 |
| Father's education | .001 | .033 | .001 | .031 | .976 | 1.647 |
| Mother's education | 006 | .033 | 007 | 187 | .852 | 1.672 |
| Psychological capital | .351*** | .029 | .372*** | 11.956 | .000 | 1.074 |
| R2 | .173 | | | | | |
| Adj R2 | .167 | | | | | |
| F | 27.520*** | | | | | |
| df | (7,918) | | | | | |

Note: *P <0.05,**P <0.01,***P <0.001, "Female", "Rural" Taken as a reference group

The results of this study show that the four positive mental states of college students' self-efficacy, hope, optimism and resilience are all significantly positively correlated with their employability. And psychological capital as a whole construct has a stronger explanatory power for employment than all dimensions of psychological capital.

5. Discussion and Countermeasures

5.1 Enhance Self-Efficacy and Enhance Employment Competitiveness

Colleges and universities can start from several aspects when improving college students' sense of self-efficacy. Constantly set goals and tasks for students in learning and student work, and improve students' sense of self-efficacy in continuous success; Encourage students to compete. If there is competition, there will be goals and objects to compare. In this process, they can find their strengths and improve their sense of self productivity; Helping students to attribute success and failure can also improve students' sense of self productivity; Helping students find their strengths and advantages in their study and work is an effective way to enhance students' sense of self productivity. The enhancement of self-efficacy cultivates the confidence and courage of college students to overcome difficulties and overcome difficulties, and contributes to the further enhancement of College Students' employability and employability.

5.2 Build hope and Enhance Employment Competitiveness

Hope is that individuals or organizations can set realistic and challenging goals and expectations, and achieve these goals through self-directed determination, energy and perception of internal control. Therefore, the establishment of hope should determine realistic and challenging goals and achieve this goal through their own efforts, which can improve people's hope. From this hope building behavior training, college students' expectation of achieving the goal can be greatly strengthened, which avoids making college students fall into a negative psychological attitude in the process of learning and life, thus laying a good psychological foundation for the improvement of employability.

5.3 Cultivate Optimism and Enhance Employment Competitiveness

Cultivating college students' psychological capital can cultivate students' courage in the face of difficulties and optimism in the face of setbacks. While improving students' self-efficacy and

establishing students' hope, students' optimism will also be improved.

5.4 Temper Resilience and Enhance Employment Competitiveness

Cultivate college students' psychological capital to deal with employment competition. It also requires us to cultivate students' ability to survive and develop in adversity. Exercise their indomitable will quality and enhance their competitiveness in employment. Only those who are full of self-confidence, hope, optimism and tenacity have the courage to innovate and dare to innovate, can they give full play to their knowledge and skills according to local conditions, and can they move from adversity to prosperity and from prosperity to greater achievements.

6. Conclusion

There is a positive correlation between psychological capital and employability. Psychological capital affects college students' employability. By enhancing college students' sense of self-efficacy, establishing hope, cultivating optimism, tempering resilience and improving psychological capital, college students' employability can be improved.

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