

**Results:** The main melody in vocal music singing can reflect the characteristics of singing to a certain extent, cause the audience to resonate in the form of psychological hint, and then make the audience present different emotional feedback and emotional value, so as to realize the effect of emotional regulation. The results show that the main melody in vocal singing can effectively alleviate the audience's mental anxiety, get rid of negative emotions and effectively provide a level of mental health. Table 1 shows the score statistics of mental health scale of mental anxiety audience before and after the experiment.

**Table 1.** The scores of mental health scale of mental anxiety audience before and after the experiment

Scoring dimension	Before the experiment	After the experiment	Constant value
Force	1.88±0.57	1.53±0.41	1.62±0.57
Anxious	2.74±0.39	1.24±0.37	1.39±0.43
Depressed	2.05±0.63	1.38±0.50	1.50±0.59
Paranoid	1.94±0.58	1.37±0.45	1.43±0.58
Psychotic	2.63±0.46	1.21±0.32	1.29±0.42

**Conclusions:** Vocal music singing can improve people's perception, expressiveness and aesthetic ability of music art, and different styles and types of music works bring people different psychological feelings and emotional values. The difference of the main melody of vocal music can effectively bring different emotional experiences to the audience, make them feel "immersive", and then help them relieve their emotions in the process of vocal music singing, reduce negative emotions, effectively improve the audience's mental anxiety and improve their mental health level.

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## A STUDY ON THE IMPACT OF COMMUNICATION ADAPTATION BARRIERS ON WORK VALUES AND TURNOVER INTENTION OF COLLEGE TEACHERS

Jing Gu<sup>1,2</sup>

<sup>1</sup>*College of Economics and Management, Nanjing University of Aeronautics and Astronautics, Nanjing 211106, China*

<sup>2</sup>*Scientific Research and Development Division, Nanjing Institute of Tourism & Hospitality, Nanjing 211100, China*

**Background:** Communication adaptation disorder is manifested in the difficulties of opinion exchange and information transmission between people and teams. It often includes language barrier, concept barrier and temperament barrier, and different types of obstacles are caused by different information senders, information receivers and information transmission channels. In the adaptive state of language communication, the emotional tendency, expression ability and judgment of the sender of information will affect the integrity of information transmission. For example, the sender of information will produce different emotional values and behavior orientation under the influence of language environment, age structure and individual differences, and then affect the fluency and logic of communication and expression. At the same time, different information recipients have different ideas and views on the same thing by subjective tendency and value orientation, and there are different characteristics in information screening and tolerance. At the same time, the perfection of communication channels, media and mechanisms will also affect the communication, expression and exchange of information. Due to the certain psychological distance between college teachers and younger groups, and the differences in environmental conditions and thinking, there are differences in the expression and understanding of the same language between college teachers and students. At the same time, the singleness of communication media channels will also make teachers and students have communication problems, which will affect teachers' expression ability and produce communication adaptation obstacles. The main service object of teachers is students, and their sense of value acquisition and satisfaction mainly come from students' feedback and evaluation. However, the actual distance and psychological distance between college teachers and students affect teachers' participation and communication with students, and then have a negative impact on teaching effect and quality. The quality of classroom effect and the satisfaction of students' evaluation are the best test criteria for teachers' working ability and value. Communication adaptation barriers will affect teachers' emotional tendency and expression ability, directly affect the teaching quality and teaching effect, and then affect teachers' evaluation and doubt of their own ability and working values. Communication and adaptation

barriers will make teachers have negative emotions and affect their working state and their career planning. Therefore, exploring the impact mechanism of communication adaptation barriers on college teachers' work values and turnover intention will help teachers improve professional skills and work recognition, improve self-efficacy and job satisfaction, and provide reference for teacher training programs.

**Objective:** To analyze the impact of communication adaptation barriers on college teachers' work values and turnover intention from the perspective of communication adaptation barriers. Based on the understanding of the current teaching situation and teachers' communication adaptation barriers, we can alleviate their communication barriers through communication intervention, and analyze the data of teachers' work values and turnover intention, so as to improve their teaching confidence and professional skills.

**Research objects and methods:** Firstly, the adaptation of teachers and communication obstacles in colleges and universities are selected as the research object, and then the adaptation information of teachers and communication obstacles are collected and transformed into the research object. Then, with the help of association rule mining algorithm, this paper explores the impact of communication adaptation barriers on work values and turnover intention, and puts forward corresponding countermeasures to alleviate teachers' communication adaptation barriers, in order to improve college teachers' professional ability and literacy and help them make better career planning.

**Method design:** Firstly, collect and grade the basic information about the current situation of communication level and the difficulty of communication adaptation of teachers with communication adaptation barriers, and explore the correlation between communication adaptation barriers and teachers' work values and turnover intention with the help of association rule mining algorithm. The experiment lasted for three months. The data of teachers' work values and turnover intention were processed and analyzed before and after the experiment.

**Methods:** Based on the correlation analysis between communication adaptation barriers, work values and turnover intention, the association rule mining algorithm was used for experimental intervention, and the experimental data were collected and processed with the help of statistical analysis tools to obtain the experimental results.

**Results:** The ideological control of students' collective behavior was more difficult to predict and judge, and also exacerbated the communication and adaptation obstacles of teachers to a certain extent. Alleviating teachers' communication and adaptation barriers can effectively improve teachers' self-efficacy and job recognition, and reduce their turnover intention. Table 1 shows the statistics of teachers' satisfaction with different dimensions before and after the experiment.

**Table 1.** Statistics of teachers' satisfaction with different dimensions before and after the experiment

Timing	Communication Initiative (%)	Information fluency (%)	Difficult adaptability (%)	Work enthusiasm (%)	Self-efficacy (%)
Before experiment	22.3	22.5	14.7	16.8	23.7
After the experiment	52.3	64.6	74.5	89.4	87.2

**Conclusions:** The influence of internal and external environmental pressure makes college teachers have different communication and adaptation barriers, has a negative impact on their teaching work and life, and will produce negative emotions accordingly, which will shake their work values and career planning plans. From the perspective of communication adaptation disorder, help teachers improve their symptoms, improve their self-awareness and self-efficacy, and improve the quality of teaching.

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## SPECIAL FUNCTION DESIGN OF URBAN RAIL TRANSIT BASED ON THE WELL-BEING OF RESIDENTS WITH URBAN COGNITIVE IMPAIRMENT

Jie Zhong<sup>1,2</sup> & Jing Yin<sup>3</sup>

<sup>1</sup>Teaching Center, Chengdu Institute of Rail Technology, Chengdu 610000, China

<sup>2</sup>Razak Faculty of Technology and Informatics, Universiti Teknologi Malaysia, Kuala Lumpur 54100, Malaysia

<sup>3</sup>Department of Basic Courses, Deyang College of Urban Rail Transit, Deyang 618400, China

**Background:** In recent years, the development of urban transportation in China is getting better and better, and various transportation facilities are gradually improved. Rail transit routes form a network all over the city and extend to the edge of the city. The vigorous development of rail transit has brought convenience to residents' lives. At the same time, the objects of urban rail transit design are usually ordinary residents. For those urban residents with cognitive impairment, the current urban rail transit design cannot meet their needs for urban transportation. Cognitive impairment refers to the abnormal processing of learning, memory and thinking, memory and learning impairment, and the emergence of physiological diseases such as aphasia and disability. Therefore, residents with cognitive impairment will have memory decline and memory decline. They can't remember the complex rail transit map, so they can't find what station they need to get on and get off from. The difficulty of taking the bus makes these residents with cognitive impairment feel helpless and panic, and even fear and fear of going out. Then affect the well-being of residents with cognitive impairment. In addition, residents with cognitive impairment will also have a sense of direction disorder and a decline in their ability to use language. These symptoms will seriously affect their sense of the experience of rail transit, which is not conducive to the improvement of residents' well-being. Therefore, we need some designs that can help them get on the bus quickly, so that they can quickly find the route and follow the guidance to get on and off the bus. Special functions are designed for residents with cognitive impairment who show different obstacles so that they can ride without worry, feel no embarrassment on the way, and feel the love and respect of the state for them.

**Objective:** The design of urban rail transit shall be adjusted according to the cognitive impairment of urban rail transit and the different obstacles of residents. According to the general design principles, the characteristics of different groups of people taking rail transit shall be taken into account. The special design shall also be carried out for those special groups to ensure their safety and efficiency and help them take the means of transportation smoothly. Let them feel care all the time. For example, reduce the number of stairs, increase the number of walking elevators, and display the location of elevators through guide signs to remind people in need to take them. Add a vision impairment guidance system to guide those residents with cognitive impairment with direction impairment to take transportation through a portable voice prompt device.

**Research objects and methods:** The subjects were residents of a community with cognitive impairment in a city. Fuzzy evaluation is used to evaluate the impact of special function design of urban rail transit on residents' well-being. These residents include different groups such as the elderly, women and people with physical disabilities, who can communicate normally. Before fuzzy evaluation, understand their travel situation, evaluation and suggestions on the current urban rail transit, and evaluation on the special functions of urban rail transit. The fuzzy evaluation is divided into five levels, that is, the five-level scoring system. 1-5 points mean irrelevant, slight impact, general impact, obvious impact and complete impact respectively. Through the statistical analysis of the collected data by SPSS software, this paper studies the impact of urban rail transit special function design on residents' well-being. All results need to be averaged and rounded to reduce the interference of subjective factors.

**Results:** The collected data are sorted out and statistically analyzed by SPSS software. The impact of special function design of urban rail transit on residents' well-being is shown in Table 1.

**Table 1.** Impact of special function design of urban rail transit on residents' well-being

Crowd	Add escalator	Visual impairment guidance system	Carriage handles vary in height	Wheelchair lift
Decreased motor ability	3	3	2	5
Memory impairment	4	4	3	3
Disorientation	4	5	2	3

In Table 1, different urban rail transit special function designs have different effects on the well-being of different groups. For residents with cognitive impairment with decreased motor ability, wheelchair lifts can completely affect their well-being, and the corresponding impact score is as high as 5 points. Different