**Junyan Luan**

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**Education Background**

* **University of Science and Technology of China**, Hefei, China Sep.2023 - Present

Bachelor of Science in Computer Science, School of the Gifted Young

* GPA: 3.56/4.3
* Main courses: Computer Programming A (A+), Introduction to Algorithms (A-), Foundation of Algebra (A+), Programming practice for solving scientific problems (A), Linear Algebra B1 (A-)
* **University of California, San Diego**, La Jolla, CAAug.2024 - Sep.2024

Summer sessions

* GPA: 3.85/4.0
* Main courses: Computer Architecture Software Perspective (A-), Modern Algebra II (A+)

**Project Experiences**

* **Research on Multimodal Models**, Hefei, Anhui Sep. 2024 - Present

*Research Assistant at Prof. Xiangnan He’s Lab*

* Conducted research on multimodal models, focusing on improving performance in tasks such as image captioning, video analysis, and cross-modal retrieval.
* Integrated data from multiple sources, including text, images, audio, and video, to enhance the model's understanding capabilities.
* **A Color Memory Experiment on Exploring the Effect of Attention-centered Factors on the Effect of Working Memory**, Hefei, China Sep. 2023 - June. 2024

*Team member*

* Assisted the group leader in overseeing group tasks to ensure the project progresses as planned.
* Organized and recruited volunteers for the experiment, ensuring the completeness and reliability of data collection.The volunteers were required to be non-color weak, and a total of 40 volunteers were recruited for this experiment.
* Designed the experimental procedure and guided volunteers in collecting experimental data to ensure standardization and consistency. The experimental environment is PsychoPy2, an IDE where you can write Python code and have a graphical interface.
* Ibm Spss Statistics was used to conduct paired sample T test and multivariate analysis of variance to analyze the data and obtain the results.
* Prepared interim project reports and presented analytical results and research findings to the team.
* Drafted the literature review to provide theoretical support for the experiment and contributed to the sections on experimental methods and data processing.
* Analyzed deficiencies encountered during the experiment and proposing improvements to enhance the overall design.The problems of this experiment are as follows: the lack of connection between working memory task and attention task leads to the lack of reaction time between working memory task and attention task, which affects the performance of the subjects in attention task; When improving, it can be considered to add prompt words, countdown, or empty screen between attention task and working memory task to make subjects mentally prepared; The improvement of color ordering in the experiment may induce text encoding according to color shade, so as to have no effect of suppressing text encoding. The method of color ring memory can be adopted, which requires the test subjects to click the color that is closest to the memory color in the color ring, and judge the effect of working memory by the accuracy of selecting the color.

**Extracurricular Activity**

* **Computer Programming Club of USTC**, Hefei, Anhui Sep. 2024 - Present

*Leader*

Participated in the organization and registration of Yuqing Cup, Baidu Star Competition, 2024 School Competition, 2024 CCPC (China College Student Programming Competition) and ICPC;

Designed the club mascot of the student computer Programming club.

Created and managed the club’s account on Bilibili.

Made the club enrollment poster.

In October, Huawei Technologies Co., Ltd. and Hefei Centeng Artificial Intelligence Ecological Innovation Center jointly held the "Create the future enjoy extraordinary" intelligent base Ascension University trip (Huawei University trip to the University of Science and Technology of China special event).

**Honors & Awards**

* The 2023 Outstanding Student Scholarship Bronze Award (Top 20% )
* The 2024 Qiangwei Scholarship of Moral Education Scholarship
* ICPC Asia East Nanjing Regional 2024, Bronze Medal (2024.11)

**Language & Computer Skills**

* **English**: Proficient in English and native in Chinese
* **Computer**: Proficient in Technical Skills: C/C++, Python.