

# Junkai Chen

+86 15917178816 | [junkai.chen.0917@gmail.com](mailto:junkai.chen.0917@gmail.com) | [Google Scholar](#) | [Personal Website](#)

## PERSONAL REPRESENTATION

---

I have consistently maintained an exemplary academic record, achieving a high GPA of 3.79/4. My strong dedication and profound commitment to my studies have enabled me to excel in advanced programming and algorithm design. I possess a solid foundation in computer science, with demonstrated proficiency in several programming languages, including Python and C++.

In the realm of research, my primary focus is on Multimodal Large Language Models (MLLM), including aspects of hallucination and Explainable Artificial Intelligence. I am familiar with the architectures of existing large language models and vision-language models. These knowledge allows me to navigate and innovate within the field effectively.

My robust capacity for learning and self-motivation fuels my deep passion for academic pursuits, driving me to explore complex problems and seek innovative solutions in artificial intelligence.

## PUBLICATIONS

C=CONFERENCE, J=JOURNAL, P=PATENT, S=IN SUBMISSION, T=THESIS

- C.1 KeningZheng\*, **Junkai Chen\***, Yibo Yan, et al. **Reefknot: A Comprehensive Benchmark for Relation Hallucination Evaluation, Analysis and Mitigation in Multimodal Large Language Models** (Under Review).
- C.2 XinZou, YizhouWang, YiboYan, SiruiHuang, KeningZheng, **Junkai Chen**, et al. **Look Twice Before You Answer: Memory-Space Visual Retracing for Hallucination Mitigation in Multimodal Large Language Models** (Under Review).
- C.3 Zhangqi Jiang\*, **Junkai Chen\***, Beier Zhu, Tingjin Luo, Yankun Shen, Xu Yang, et al. **Devils in Middle Layers of Large Vision-Language Models: Interpreting, Detecting and Mitigating Object Hallucinations via Attention Lens** (Under Review).

## PROJECT

---

- Construction of Spatio-Temporal Knowledge Graph of Railway Stations** Nov. 2023 – Present  
*State-level Innovation Training Programme for University Students*
  - Constructed a Spatio-Temporal Knowledge Graph for Isochronous Influence Domain of Railway Stations
  - Grab information from a map within an isochronous circle and analyzing it
  - Create an online platform to provide information of subway station
- Pre-training method of medical image base model for low-resource scenarios** Nov. 2023 – Present  
*State-level Innovation Training Programme for University Students*
  - Organiz a multimodal dataset with rich expert knowledge based on four books in the medical field
  - Train a large vision language model based on the dataset
  - A user-oriented visualization platform for fundus specialist consultation is being built
- In-Context Learning Based on Large Vision Language Models** Apr. 2024 - Present  
*Key Laboratory of New Generation Artificial Intelligence Technology*
  - Focus how ICL work in large vision language models
  - Detect the ICL neuron in LVLM
  - Exploring the inner state of ICL in LVLM

## EDUCATION

---

**Southeast University**

*B.Sc. in Artificial Intelligence GPA(3.79/4)*

Nanjing China

2022-2026(expected)

Relevant Courses:

Mathematical Analysis(90/100), Linear Algebra(88/100), Programming & Algorithmic Language(95/100), Probability Statistics & Stochastic Proceess(92/100), Data structures(89/100), Operating System(97/100).

EXPERIENCE

---

**Interns**

*The Hong Kong University of Science and Technology (Guangzhou)*

Guangzhou China

2024.6-2024.8

COMPETITION AWARDS

---

2023 International Mathematics Modeling Contest for Higher Education————**Finalist**

2023 Huazhu Cup National University Students Mathematical Modeling Competition——**Excellence Award**

LANGUAGES

---

**English** [Basic] (CET4:535 CET6:481)