

Shan He

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EDUCATION

Beijing University of Aeronautics and Astronautics **985** **211** **Double 1st-Class** Sep 2021 - Jul 2025

Computer Science and Engineering Bachelor School of Computer Science

- **GPA : 3.74 / 4.00**
- **Major Course: Advanced Algebra for Engineering (95) , Fundamental Physics (94) , Data Structures and Program Design (100) , Magical Quantum Instrument (100) , Probability and Statistics (92) , Computer Organization (87) , C++ Programming (96) , Object-Oriented Design and Construction (91) , Operating Systems (92) , Python Programming (92) , Compiler Technology (91) , Mathematical Modeling (92) , Optimization Techniques in Computer Engineering (97) , Android Platform Development Technologies (95)**

HONORS & AWARDS

Second Prize of Academic Excellence Scholarship (Rank: 163/1003)	2022
Second Prize of Excellence in Social Work Scholarship	2022
University-level Outstanding Student Cadre (24 out of 500)	2022
Second Prize in the National Undergraduate Mathematics Competition	2023
Outstanding Teaching Assistant	2023

RESEARCH EXPERIENCE

Research on Large Multimodal Models and AI Alignment Jan 2024 - Present

researcher

- Prof.Xianglong Liu's research group primarily focuses on the study of **Large Multimodal Models** and **AI Alignment**.
- Research on **RAG**(Retrieval-Augmented Generation) technology and its improved variant **SELF-RAG** , involving examining how both methods **leverage external knowledge sources to enhance the performance of large language models (LLMs)** in tasks such as answering questions and generating text, as well as how SELF-RAG makes critical upgrades to RAG to further boost model accuracy and veracity.
- Research on typical **Large Multimodal Models** such as **LLaVA**(Large Language and Vision Assistant) , Learning their Network Structure and Dataset Construction Process.
- Learned about **Transformer**-related knowledge and **PyTorch** syntax.

Blockchain Security Testing Tool Development Oct 2023 - Present

researcher

- Prof.Bo Jiang's research group primarily focuses on the area of **system security**.
- Employing fuzz testing methodology(A black-box or gray-box software testing technique) to detect the presence of vulnerabilities within a blockchain system.

SUMMARY

- Has had an early taste of the research environment and harbors a profound interest in scientific research.
- Has accumulated knowledge and practical experience in the field of artificial intelligence, with a strong thirst for knowledge and curiosity about cutting-edge technologies.
- Has a solid foundation in programming, demonstrates strong learning ability, and possesses a high capacity for independently solving problems.