

Ziyang Liu

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EDUCATION

Soochow University | School of Future Science and Engineering | Bachelor of Science in Statistics *September 2022 – July 2026*
Core Courses: Mathematical Analysis, Advanced Algebra, Applied Multivariate Analysis, Probability Theory and Mathematical Statistics.
GPA: 3.7/4.0 | **Top 20%** **English Proficiency:** CET-6 Certified
Leadership Roles: Class Monitor, School Student Union Minister

Joint Program: Tsinghua University - X-Institute | Social Innovation + AI *September 2024 – September 2027*
Core Courses: Enhanced Student Research Training, Open Research for Innovation Challenges
Supervisors: Min Tang (Former Senior Advisor to the State Council), Xiaolei Zuo (Chief Executive Advisor of Galaxy Securities)

PROJECT

Soochow University Scientific Research Project: Multimodal Sentiment Analysis (Lead Researcher), *February 2024 – Present*
Supervisors: Prof. Jin Wang (Vice Dean, Professor) Prof. Min Cao (Associate Professor)
This project focuses on sentiment analysis through the analysis of multimodal data, such as text, video, and audio, aiming to enhance the model's robustness in scenarios where certain modalities are missing.

- ICME 2025:** "FSRF: Factorization-guided Semantic Recovery for Incomplete Multimodal Sentiment Analysis" (CCF-B, First Author)
- CVPR 2025:** "MCCD: Multi-Agent Collaboration-based Compositional Diffusion for Complex Text-to-Image Generation" (CCF-A, Second Author)
- Pattern Recognition:** "Hierarchical Factorization-Guided Self-Distillation for Incomplete Multimodal Sentiment Analysis" (JCR Q1, Under Review)
- Utility Model Patent:** "AI-based Portable Glasses" (First Inventor, Granted, Patent No. CN222420684U)
- Invention Patent:** "AI-driven Sentiment Analysis System and Method" (First Inventor, Under Substantial Examination, Application No. 2024119020975)

National College Student Innovation and Invention Program: "Robot & Behind" – A Safety-oriented Emotional Companionship AI System for Left-behind Children (Team Leader) *June 2024 – December 2024*
Developed an AI-based intelligent emotional companionship system to provide personalized emotional support and psychological counseling to left-behind children, alleviating emotional loneliness.

- 2024 XInstitute Excellent Project Award
- 2024 National Third Prize, College Student Innovation and Invention Competition

Tsinghua University & XInstitute Joint Training ESRT Program:AI Agent System Research and Implementation for Smart Interaction (Lead Researcher) *October 2024 – Present*
Supervisor: Prof. Haitao Zheng (Associate Professor)
Leveraging WeChat, this project explores the development of intelligent agent systems supporting text and voice interactions, focusing on task automation, workflow design, and multimodal content generation.

- Assisted in the development of the WeChat chatbot "Giiso_Wechat" for Hinton AI Agent Company and completed the mid-term review

AWARDS & HONORS

Competitions:

- 2024 National College Student Innovation and Invention Competition: **National Third Prize** (Team Leader)
- 2024 Huashu Cup China Undergraduate Mathematical Contest in Modeling: **First Prize** (Undergraduate Group, Team Leader)
- 2024 China Undergraduate Mathematical Contest in Modeling: **First Prize**, Jiangsu Province (Team Leader)
- 2024 Mathematical Contest in Modeling: **Honorable Mention**(Team Leader)

Academic Awards:

- 2023 Soochow University Academic Excellence Scholarship
- 2024 Soochow University Academic Excellence Scholarship

TRAINING & PROGRAM

London South Bank University | Visiting Student | Data Science & AI Project *December 2022 – January 2023*
Tsinghua Shenzhen International Graduate School | Research Intern *January 2025 – February 2025*

- Assisted in integrating GeWechat with Restful API, building a custom chatbot and successfully linking it to the WeChat platform, supporting both text and voice interactions.

ByteDance | Training Program *February 2025 – April 2025*

- Engaged in offline teaching discussions with ByteDance on the topic of "AI + Social Innovation," focusing on the development of an AI-driven agent to assist elderly individuals in writing their memoirs.