

CONTACT  
INFORMATION

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RESEARCH  
INTERESTS

I am generally interested in computer vision and machine learning. My recent focus is on **Multimodal Large Language Model** and **enerative Model**.

I enjoy exploring the unknown and excel in the practical application of technical skills. Beyond academia, I have a deep appreciation for open-source software and the collaborative spirit it fosters.

## EDUCATION

**Southeast University, School of Artificial Intelligence**, Nanjing, China  
Bachelor of Artificial Intelligence, June, 2026(expected)

- Advisor : Prof. Guilin Qi and Prof. Hui Xue
- CCF Student Member

## PUBLICATIONS

**Xing Xie**, Yu Wang, Hao Liang, Chenyang Lou, Bingtuan Gao. An Efficient Bird Detection Method for Substation Inspection via Improved YOLOv5. In *Proceedings of IEEE International Conference on Cyber Technology in Automation, Control, and Intelligent Systems (CYBER)*, 2024. (**Finalist of Best Poster Award**)

RESEARCH  
EXPERIENCE**A Unified Table Reasoning Framework** **February, 2025 — Present**

- Proposed a multi-stage training paradigm for table reasoning , integrating layout transformation via self-supervised toolchain learning and semantic comprehension through header localization, enabling LLMs to robustly handle diverse table structures and reduce noise interference.
- Designed a novel training strategy for hybrid table QA , classifying reasoning types (e.g., numerical calculation, aggregation) and preparing golden toolchain labels, aiming to optimize task-specific performance via dynamic LoRA composition and expert balancing in Mixture-of-Experts frameworks.
- It is anticipated that the project will result in the production of a paper at [NeurIPS 2025](#).

**Leveraging Graph Neural Retrieval-Augmented Generation for OpenTable-Text Hybrid QA** **October, 2024 - Present**

- This project is advised by Prof. Dr. [Guilin Qi](#).
- The project aims to enhance the performance of open table-text hybrid QA by utilizing graph neural networks ;
- Expected outcomes include the publication of one research paper, the acceptance of one patent, and the development of a TableRAG system.

**Research on Intelligent Bird Detection and Repelling Technology for Substations Using Audio-Visual Integration** **April, 2024 - Present**

- The primary objective of this project is to develop an integrated audio-visual bird-repelling device, leveraging deep learning and other advanced technologies ;
- The project aims to create a comprehensive intelligent system designed to effectively detect and repel birds in substation environments.

**Intelligent Bird Recognition Technology for Substations Using Deep Learning** **April, 2024 - April, 2025**

- Authored a paper published in *IEEE-CYBER 2024* and was recognized as **finalist of best poster award** ;
- Pioneered the design of an enhanced, efficient, and lightweight bird detection model using advanced deep learning techniques, achieving an **excellent** rating in the final project evaluation.

SELECTED  
OPEN-SOURCE  
PROJECTS

- **GitHub** : [kaicheng001](#) (15 followers)
- **TikZ-Collection** (TikZ Collection for creating high-quality LaTeX graphics) [GitHub](#)
- **RAG-Collection** (Collection of RAG-related papers based on my research) [GitHub](#)
- **CG-NeRF2Mesh** (Project page of my CG assignment) [GitHub](#) [project page](#)

Note : It is anticipated that a greater number of interesting projects will be made available to the public in the future.

HONORS AND AWARDS	<ul style="list-style-type: none"> <li>• Provincial Third Prize, 6th Global Campus Intelligent Algorithm Elite Competition, 2024</li> <li>• Three Good Students Award, Southeast University, 2024</li> <li>• Finalist of Best Poster Award, <i>IEEE-CYBER 2024</i> in Copenhagen, Danmark, 2024</li> <li>• First Prize (Top 1%), 15th National College Students Mathematics Competition, 2024</li> <li>• Outstanding Communist Youth League Member, Southeast University, 2023</li> <li>• First Prize (Top 1%), 20th Jiangsu Provincial College Student Mathematics Competition, 2023</li> </ul>
SCHOLARSHIPS AND GRANTS	<ul style="list-style-type: none"> <li>• Jiangsu Provincial University Student Innovation Training Program (project leader), ¥8,000; 2024-2025</li> <li>• Southeast University Competition Scholarship for Two Consecutive Years, ¥800; 2023-2024</li> </ul>
SERVICES	<ul style="list-style-type: none"> <li>• Participated in three social practice projects, rated as <b>excellent</b> 2022 - 2024</li> <li>• Member of Southeast University Student Science and Technology Association 2022 - 2023</li> </ul>
SKILLS	Programming : Python, C/C++, MATLAB, JavaScript Misc : PyTorch, Tensorflow, $\text{\LaTeX}$ , Markdown OS : LINUX, macOS, Windows