# Zhang Jingyuan

✉ JZHANG149@e.ntu.edu.sg

## Education

| | |
|---|---|
| 2025 – present | **Research Assistant, Nanyang Technological University (NTU)** |
| 2023 – 2025 | **M.Sc. Artificial Intelligence, Nanyang Technological University (NTU)** |
| 2019 – 2023 | **B.E. Cyberspace Security., Wuhan University (WHU)** <br> Grade: 86.79/100 <br> Thesis title: *Cross-sentence event extraction based on abstract semantic representation.* |

## Skills

| | |
|---|---|
| Languages | Strong reading, writing and speaking competencies for English (IELTS: 7.0), Mandarin Chinese. |
| Coding | Python, C, R, Java, SQL, MATLAB, LaTeX, … |
| Misc. | Academic research, training, consultation, LaTeX typesetting and publishing. |

## Miscellaneous Experience

### Publications

| | |
|---|---|
| 2025 | **Enhancing Federated Domain Adaptation with Multi-Domain Prototype-Based Federated Fine-Tuning**, *First author* <br> ***ICLR 2025*** |
| | **Enhancing Security and Privacy in Federated Learning using Update Digests and Voting-Based Defense**, *Third author* <br> ***TKDE 2025*** |
| | **Bridging Cross-Chunk Gaps: A Self-Questioning Approach for Long-Context Retrieval-Augmented Generation**, *First author* <br> ***ACL 2025 (Under Submission)*** |

### Scientific Collaboration

| | |
|---|---|
| 2024 | **Exploring the Knowledge Boundaries of Retrieval Augmented Generation (RAG) Techniques in Multimodal Large Language Models** <br> *Collaboration with Alibaba-NTU Global e-sustainability Lab (ANGEL)* |

### Awards and Achievements

| | |
|---|---|
| 2022 | **Third Class Excellence Scholarship of Cyber Security Base**, Wuhan University. |
| 2020 | **Second Prize for Chinese Mathematics Competitions**, Wuhan University. |

## Miscellaneous Experience (continued)

### Projects

2022    **Theoretical Neuroscience Programme, University of Cambridge (Grade: A)**, *Team Leader*

     **Mathematical Contest in Modeling (Honorable Mention)**, *Team Leader*
*Problem B: Water and Hydroelectric Power Sharing*

2021    **Asia and Pacific Mathematical Contest in Modeling (Third Prize)**, *Team Leader*
*Problem A: Image Edge Analysis and Application*

     **Contemporary Undergraduate Mathematical Contest in Modeling (Second Prize)**
*Problem A: Deforming the Active Reflector of FAST*

     **Deep Learning Internship Programme of NTU (Grade: 92%, Distinction)**, *Team Leader*