ZEHAO JIN

+1 404-668-1916 | lunamos.thu@gmail.com | lunamos.github.io

EDUCATION

Georgia Institute of Technology, Atlanta, Georgia, US Jan 2026 – Present
Master of Science in Computational Science and Engineering

Tsinghua University, Beijing, China Sept 2021 – Jul 2025
Bachelor of Science in Mechanics and Aerospace Engineering

- GPA: 3.77/4.00
- Relevant Coursework: Pattern Recognition and Machine Learning, Data Structures and Algorithm, Human Factors Engineering and AI, Probability and Statistics, etc.

PROFESSIONAL EXPERIENCE

Keeta (Meituan) · LongCat LLM Team Sept 2025 – Dec 2025
Machine Learning Research Intern | Shanghai, China

- Deployed, fine-tuned, and evaluated vision-language models (VLM) and Vision-Language-Action models (VLA).
- Researched and implemented agentic strategies to improve Multimodal LLM performance.
- Designed and deployed benchmarking pipelines for production-ready VLM/VLA evaluation.

Infplane AI (Angel round, Startup in Tsinghua Univ.) Jun 2024 – Jun 2025
Cofounder & Machine Learning Engineer | Beijing, China

- Pre-trained and finetuned LLMs using Megatron-LM and NVIDIA NeMo Framework.
- Developed automated hyperparameter optimization algorithms to reduce training costs for LLMs.

RESEARCH HIGHLIGHTS

SOP-Maze: Evaluating LLMs on Complex Business Standard Operating Procedures Sep 2025 – Dec 2025
Keeta (Meituan) Longcat LLM Team | Shanghai, China

- Proposed SOP-Maze, the first benchmark for evaluating Large Language Models (LLMs) on real-world business Standard Operating Procedures, featuring 397 instances with 3422 subtasks across 23 complex scenarios.
- Developed a deterministic evaluation framework based on JSON schema and reference index matching, enabling reliable and efficient scoring of free-form agent responses.
- Paper link: https://arxiv.org/abs/2510.08942, under review at ACL 2026.

Whole-Brain Connectomic Graph Model Enables Whole-Body Control in Fruit Fly Nov 2024 – Sep 2025
Tsinghua University | Beijing, China | Advisor: Dr. Yanan Sui

- Developed flyGM, a reinforcement learning controller instantiated from the complete neuronal wiring diagram of an adult fruit fly (~140 k neurons, 50 M+ synapses), implemented with PyTorch Geometric.
- Trained the system using Proximal Policy Optimization (PPO) to achieve stable locomotion and flight behaviors in a biomechanical simulation (MuJoCo) without task-specific architectural tuning.
- Accepted as NeurIPS 2025 Workshop Poster and Cosyne 2026 Poster.
- Project page: https://sites.google.com/view/flygm.

AI-Doraemon: Interpretable embedding, clustering, and mixed state classification Oct 2023 – Jul 2024
Tsinghua University | Beijing, China | Advisor: Dr. Yang Tian, Dr. Pei Sun

- Proposed a novel framework combining Transformer, VAE and UMAP for analyzing complex systems.
- Validated the method on single-cell omics, whole-brain dynamics, and chaotic systems.

SELECTED HONORS AND AWARDS

- **Ying-Hua Fellowship**, Tsinghua University (for 15 undergrads) Dec 2022
- **Spark Fellowship**, Tsinghua University (for 40 undergrads) May 2023
- **Overall Excellence Scholarship**, Tsinghua University (for top 5% undergrads) Nov 2022 &2024
- **Finalist**, Interdisciplinary Contest in Modeling (ICM) (for top 2% teams) May 2023

PUBLICATION

[1] **Zehao Jin***, Yanan Sui, "Whole-Brain Connectomic Graph Neural Networks Enable Whole-Body Locomotion Control in Drosophila", NeurIPS 2025 Workshop Poster.

[2] Jiaming Wang*, Zhe Tang*, **Zehao Jin***, Hefei Chen*, Yilin Jin*, Peng Ding*, Xiaoyu Li, Xuezhi Cao, "SOP-Maze: Evaluating Large Language Models on Complicated Business Standard Operating Procedures", https://arxiv.org/abs/2510.08942, Under review at ACL 2026.

[3] **Zehao Jin***, Yaoye Zhu, Chen Zhang, Yanan Sui, "Whole-Brain Connectome-Instantiated Model for Whole-Body Movement Control in Drosophila", Cosyne 2026 Poster.

SKILLS

Language Proficiencies: Fluent in English (TOEFL 109) and Mandarin.

Technical Proficiencies: Python, C/C++, MATLAB, SolidWorks, COMSOL, Linux.