

Jinhe Bi

PhD Student in Computer Science

Ludwig Maximilian University of Munich (LMU Munich), Munich, Germany

Munich, Germany — Jinhe.bi@campus.lmu.de — Google Scholar

Education

National University of Singapore , Singapore Visiting Student Researcher	Mar 2026 – Present
Ludwig Maximilian University of Munich (LMU Munich) , Munich, Germany PhD in Computer Science	Apr 2024 – Apr 2027
Ludwig Maximilian University of Munich (LMU Munich) , Munich, Germany Master of Science in Computer Science	Apr 2022 – Dec 2023
Tianjin University , Tianjin, China Bachelor of Science in Electrical and Electronics Engineering	Sep 2016 – Aug 2020

Research Experience

National University of Singapore , Singapore <i>Visiting Student Researcher@NExT++, Part-time</i> Researching Latent Knowledge in LLM Post-training, supervised by Prof. Chua Tat-Seng @NExT++	Mar 2026 – Present
Huawei 2012 , Munich, Germany <i>Doctoral Researcher</i> - Conduct research on Efficient Post-Training. - Focus on large language models, multimodal learning, and reasoning-oriented model optimization. - Work on general-purpose AI methods for improving model efficiency, adaptation, and robustness.	May 2024 – Present
Ludwig Maximilian University of Munich (LMU Munich) , Munich, Germany <i>Student Research Assistant</i> Investigated state-of-the-art methods in Video Understanding.	Nov 2022 – Mar 2024
Volkswagen , Tianjin, China <i>Quality Assurance Engineer Intern</i> - Performed statistical analysis of manufacturing data using machine learning tools. - Supported database updating and maintenance.	Sep 2019 – Jan 2020

Research Interests

Efficient AI, M/LLMs Post-Training.

Publications

- Jinhe Bi**, Yujun Wang, Haokun Chen, Xun Xiao, Artur Hecker, Volker Tresp, Yunpu Ma.
LLaVA Steering: Visual Instruction Tuning with 500x Fewer Parameters through Modality Linear Representation-Steering. ACL 2025 Main Conference.
- Jinhe Bi**, Aniri, Yifan Wang, Danqi Yan, Wenke Huang, Zengjie Jin, Xiaowen Ma, Sikuan Yan, Artur Hecker, Mang Ye, Xun Xiao, Hinrich Schütze, Volker Tresp, Yunpu Ma.
PRISM: Self-Pruning Intrinsic Selection Method for Training-Free Multimodal Data Selection. ACL 2026 Main Conference.
- Jinhe Bi**, Danqi Yan, Yifan Wang, Wenke Huang, Haokun Chen, Guancheng Wan, Mang Ye, Xun Xiao, Hinrich Schütze, Volker Tresp, Yunpu Ma.
The Geometry of Reasoning: Self-Evaluation via Layerwise Trajectory Evolution. ICML 2026.
- Jinhe Bi**, Aniri, Minglai Yang, Xingcheng Zhou, Wenke Huang, Sikuan Yan, Yujun Wang, Zixuan Cao, Michael Färber, Xun Xiao, Volker Tresp, Yunpu Ma.
EchoRL: Reinforcement Learning via Rollout Echoing. ICML 2026.

Research Grants

- Awarded EuroHPC AI and Data-Intensive grants for “Scalable and Green Multimodal Alignment” (*EHPC-AI-2024A06-060*).
- Awarded NHR@FAU GPU computing grants for “Efficient_R1” (*b271dd / JA-24570*) and “TRANSPARENT_R1” (*b270dd / JA-24562*).
- Awarded GCS-JUPITER supercomputing grants for “Building Trustworthy and Reliable Real-World Reasoning in Multimodal Large Language Models (MLLMs)” (*Application No. 65877*).

Awards and Honors

- Allianz China Scholarship and Deutschlandstipendium, 2022.
- Tianjin University Outstanding Student Leaders Scholarship.
- American College Mathematical Modeling Contest (MCM/ICM), First Prize.
- RoboMaster Robot National Finals, Third Prize, 2018.
- Shenzhen Cup Mathematical Modeling Competition, National Final Award, 2018.