Tingting Du

University of Wisconsin-Madison | tdu35@wisc.edu | GitHub | LinkedIn | QR Code to Google Scholar

Interest: Robotics; Vision-Language-Action (VLA); Large Language Model Reasoning;

EDUCATION

University of Wisconsin-Madison — **Madison, Wisconsin, USA**

Bachelor of Science in Computer Science and Mathematics; — **Jan. 2025 ∼ May. 2027**

- **GPA:** 3.86/4.00; **Honors:** College of Letters & Science Dean's List;
- **Courses:** Autonomous Robotics, Operating System, Artificial Neural Network.

University of California, Berkeley — **Berkeley, California, USA**

Visiting Student in Computer Science; — **Aug. 2023 ∼ Jun. 2024**

- **GPA:** 3.77/4.00; **Honors:** Berkeley Global Access Scholarship;
- **Courses:** Real Analysis, Data Structures, Algorithm, Intro to Artificial Intelligence.

Ningbo University — **Ningbo, Zhejiang, China**

Undergraduate in Linguistics; — **Sep. 2021 ∼ Jun. 2023**

- **GPA:** 3.80/4.00; **Honors:** Zhejiang Provincial Scholarship (Top 3%, 2×).

PUBLICATIONS

- X. Tang, T. Qin, T. Peng, Z. Zhou, D. Shao, **T. Du**, X. Wei, H. Zhu, G. Zhang, et al., **"Agent KB: A Hierarchical Memory Framework for Cross-Domain Agentic Problem Solving,"** ICML 2025 Workshop on Collaborative and Federated Agentic Workflows.
- B. Nguyen, **T. Du**, M. Yu, L. Angrave, and M. Jiang, **"QG-SMS: Enhancing Test Item Analysis via Student Modeling and Simulation,"** *Proceedings of the 63rd Annual Meeting of the Association for Computational Linguistics (ACL)*, 2025.
- N. Tomlin, N. Zhou, E. Fleisig, L. Chen, T. Wright, L. Vinh, L.X. Ma, S. Eisape, **T. Du**, T. Zhang, A. Koller, A. Suhr, **"Characterizing Language Use in a Collaborative Situated Game,"** arXiv preprint arXiv:2512.03381, 2025.

RESEARCH

Vision-Language-Action Model with Shared Projector Framework — **University of Maryland, College Park**

Advisor: Prof. Ang Li — **Jan. 2026 ∼ Present**

- Architected a multi-layer shared projector framework to bridge 2D and 3D representations in VLA models;
- manuscript in submission to ICML.

Interpretability of LLM Reasoning via RLVR Training — **University of Wisconsin-Madison**

Advisor: Prof. Yiqiao Zhong — **Sep. 2025 ∼ Jan. 2026**

- Developed an interpretability framework using token-level KL-divergence to pinpoint where language models correct logical reasoning errors during RLVR training.

Student Modeling for Question Generation — **University of Notre Dame**

Advisor: Prof. Meng Jiang — **Jul. 2024 ∼ Jan. 2025**

- Developed a student modeling approach for question generation; published at ACL 2025.

Situated Language Use and Ad-hoc Convention Formation — **Berkeley Artificial Intelligence Research**

Advisor: Prof. Alane Suhr — **Feb. 2024 ∼ Jun. 2024**

- Analyzed situated language use and ad-hoc convention formation within a large-scale corpus in a virtual 3D environment.

SKILLS

- **Programming Languages:** Python, Java, C++, LaTeX, Julia, R, JavaScript, TypeScript, SQL, Assembly.
- **Frameworks & Tools:** ROS 2, Hugging Face Transformers, PyTorch, vLLM, PEFT/LoRA, Docker, Linux, AWS.