XIANGBO ZHANG

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EDUCATION

Georgia Institute of Technology   *Sep. 2025 – May 2027 (Expected)*
B.S. in Mathematics   *Atlanta, GA*
GPA: 4.00/4.00; Faculty Honors (Highest Honor for Undergraduates)

Kean University   *Sep. 2023 – May 2025*
B.A. in Mathematical Sciences & B.S. in Computer Science (Transfer Out)   *Union, NJ*
GPA: 3.99/4.00; Honors Distinction in Research Track

RESEARCH INTERESTS

I enjoy developing theory-driven machine learning systems and connecting mathematical foundations—such as optimization, control, and statistical reasoning—with practical, deployable ML systems. My current work focuses on interpretable and reliable learning pipelines, multi-agent large language model (LLM) systems, and evaluation frameworks for robustness, alignment, and fairness.

SELECTED PUBLICATIONS

- **Input–Envelope–Output: Auditable Generative Music Rewards in Sensory-Sensitive Contexts**. Ye, Q., Sang, S., Ma, X., **Zhang, X.** *Proceedings of the ACM Conference on Human Factors in Computing Systems (CHI)*, 2026. **Accepted.**

- **Frequency-Aware Sparse Capsule Networks for Hyperspectral Image Classification**. Wang, J., Liu, Q., Gao, Z., **Zhang, X.**, Dou, Z., Abuhaija, B., Huang, K. *Cognitive Computation*, under review, 2026.

- **Memory Dial: A Training Framework for Controllable Memorization in Language Models**. **Zhang, X.**, Emami, A. *ACL Rolling Review (ARR)*, 2026. *Overall Score: 3.17 (2.5, 3, 4).*

- **Stable and Explainable Personality Trait Evaluation in Large Language Models with Internal Activations**. Ma, X., **Zhang, X.**, Weng, Z. *ACL Rolling Review (ARR)*, 2026. *Overall Score: 3.0 (2.5, 3, 3.5).*

- **UniHash: Unifying Pointwise and Pairwise Hashing Paradigms**. Ma, X., Li, R., Liu, H., **Zhang, X.**, Weng, Z. *International Conference on Machine Learning (ICML)*, under review, 2026.

- **Discrete Wavelet Transform-Based Capsule Network for Hyperspectral Image Classification**. Gao, Z., Wang, J., Shen, H., Dou, Z., **Zhang, X.**, Huang, K. *arXiv preprint*, 2025.

- **Global Output Regulation for Uncertain Feedforward Nonlinear Systems with Unknown Nonlinear Growth Rate**. Chang, L., **Zhang, X.** *International Journal of Robust and Nonlinear Control (IJRNC)*, 2025.

- **State-Feedback Control of a Class of Nonlinear Systems with Neutral Delays**. **Zhang, X.** *International Annual Conference on Complex Systems and Intelligent Science (CSIS-IAC)*, 2024.

ACADEMIC SERVICE

Reviewer
ACL Rolling Review (ARR), 2026

Teaching and Tutoring
Teaching Assistant, MATH 1010: Foundations of Mathematics, Kean University (Summer 2024)
STEM Tutor, Educational Opportunity Fund Program, Kean University (2024–2025)
Math Tutor, Department of Mathematical Sciences, Kean University (2025)