

# Tuo Zhao

**Associate Professor (ISyE; CSE by courtesy)**

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## Department directory information

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## Education

- Ph.D. in Computer Science, Johns Hopkins University
- M.S. in Applied and Computational Mathematics, University of Minnesota
- M.S. and B.S. in Computer Science, Harbin Institute of Technology

## Statement of teaching and research interests

My research focuses on the theory and methodology of machine learning, with particular emphasis on large language models (LLMs), including efficient pre-training, post-training and inference for LLMs. I teach undergraduate and graduate courses in machine learning.

## Selected publications

- Hong, I., Yu, C., Qiu, L., et al., and Zhao, T. "Think-RM: Enabling Long-Horizon Reasoning in Generative Reward Models." *Neural Information Processing Systems (NeurIPS)*, 2025.
- Li, Y., Yu, Y., Liang, C., He, P., et al., and Zhao, T. "LoftQ: LoRA-Fine-Tuning-Aware Quantization for Large Language Models." *International Conference on Learning Representations (ICLR)*, 2024.
- Zhang, Z., et al., and Zhao, T. "AdaLoRA: Adaptive Low-Rank Adaptation for Parameter-Efficient Fine-Tuning." *International Conference on Learning Representations (ICLR)*, 2023.
- Chen, M., Huang, K., Wang, M., and Zhao, T. "Score Approximation, Estimation and Distribution Recovery of Diffusion Models on Low-Dimensional Data." *International Conference on Machine Learning (ICML)*, 2023.

- Jiang, H., He, P., Chen, W., Liu, X., Gao, J., and Zhao, T. "SMART: Robust and Efficient Fine-Tuning for Pre-trained Language Models through Principled Regularized Optimization." Annual Meeting of the Association for Computational Linguistics (ACL), 2020.
- Zuo, S., Li, Z., Jiang, H., Zhao, T., and Zha, H. "Transformer Hawkes Process." International Conference on Machine Learning (ICML), 2020.

A complete list of publications is available on Google Scholar and my personal website.