

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.