Zhiming Zhou

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Employment

Shanghai University of Finance and Economics.   **Shanghai, China**
Department of Computer Science.   *Dec. 2020 - Now*

Education

Shanghai Jiao Tong University.   **Shanghai, China**
Ph.D. in Computer Science, Advised by Prof. Yong Yu.   *Sep. 2014 - Jun. 2020*

Shanghai Jiao Tong University.   **Shanghai, China**
B.S. in Computer Science (ACM Class).   *Sep. 2010 - Jun. 2014*

Research Interests

I have a broad interest in fundamental techniques and theories of machine learning, including optimization, generalization, generative models, representation learning, learning theory, design principles of neural networks, etc. Ultimately, I hope to contribute to laying a solid foundation for applying artificial intelligence in the real world.

Publications

Residual Multi-Task Learner for Applied Ranking. 📄
- Cong Fu, Kun Wang, Jiahua Wu, Yizhou Chen, Guangda Huzhang, Yabo Ni, Anxiang Zeng, *Zhiming Zhou*.
- ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD), 2024.

Learning Personalizable Clustered Embedding for Recommender Systems. 📄
- Yizhou Chen, Guangda Huzhang, Anxiang Zeng, Qingtao Yu, Hui Sun, Jingyi Li, Yabo Ni, Han Yu, *Zhiming Zhou*.
- ACM Transactions on Recommender Systems (TORS), 2024.

Recurrent Temporal Revision Graph Networks. 📄
- Yizhou Chen, Anxiang Zeng, Guangda Huzhang, Qingtao Yu, Kerui Zhang, Kangle Wu, Han Yu, *Zhiming Zhou*.
- Annual Conference on Neural Information Processing Systems (NeurIPS), 2023.

Clustered Embedding Learning for Recommender Systems. 📄
- Yizhou Chen, Guangda Huzhang, Anxiang Zeng, Qingtao Yu, Hui Sun, Jingyi Li, Yabo Ni, Han Yu, *Zhiming Zhou*.
- ACM Web Conference (WWW), 2023.

Lipschitz Generative Adversarial Nets. 📄
- *Zhiming Zhou*, Jiadong Liang, Yuxuan Song, Lantao Yu, Hongwei Wang, Weinan Zhang, Yong Yu, Zhihua Zhang.
- International Conference on Machine Learning (ICML), 2019.

AdaShift: Decorrelation and Convergence of Adaptive Learning Rate Methods. 📄
- *Zhiming Zhou*, Qingru Zhang, Guansong Lu, Hongwei Wang, Weinan Zhang, Yong Yu.
- International Conference on Learning Representations (ICLR), 2019.

Activation Maximization Generative Adversarial Nets. 📄
- *Zhiming Zhou*, Han Cai, Shu Rong, Yuxuan Song, Kan Ren, Weinan Zhang, Jun Wang, Yong Yu.
- International Conference on Learning Representations (ICLR), 2018.

Sparse-as-Possible SVBRDF Acquisition. 📄
- *Zhiming Zhou*, Guojun Chen, Yue Dong, David Wipf, Yong Yu, John Snyder, Xin Tong.
- ACM Transactions on Graphics (TOG) - Proceedings of ACM SIGGRAPH Asia, 2016.

Guiding the One-to-one Mapping in CycleGAN via Optimal Transport. 📄
- Guansong Lu, *Zhiming Zhou*, Yuxuan Song, Kan Ren, Yong Yu.
- AAAI Conference on Artificial Intelligence (AAAI), 2019.

Unsupervised Diverse Colorization via Generative Adversarial Networks. 📄
- Yun Cao, *Zhiming Zhou*, Weinan Zhang, Yong Yu.
- European Conference on Machine Learning (ECML), 2017.

Optimizing an Inverse KL Divergence for Converting RDF Triples into High-Quality Natural Languages. 📄
- Yaoming Zhu, Juncheng Wan, *Zhiming Zhou*, Liheng Chen, Lin Qiu, Weinan Zhang, Xin Jiang, Yong Yu.
- International Conference on Research and Development in Information Retrieval (SIGIR), 2019.

Exposure Bias versus Self-Recovery: Are Distortions Really Incremental for Autoregressive Text Generation?
- Tianxing He, Jingzhao Zhang, *Zhiming Zhou*, James Glass.
- Conference on Empirical Methods in Natural Language Processing (EMNLP), 2021.

Learning to Design Games: Strategic Environments in Deep Reinforcement Learning.
- Haifeng Zhang, Jun Wang, *Zhiming Zhou*, Weinan Zhang, Ying Wen, Yong Yu, Wenxin Li.
- International Joint Conference on Artificial Intelligence (IJCAI), 2018.

Improving Unsupervised Domain Adaptation with Variational Information Bottleneck.
- Yuxuan Song, Lantao Yu, Zhangjie Cao, *Zhiming Zhou*, Jian Shen, Shuo Shao, Weinan Zhang, Yong Yu.
- European Conference on Artificial Intelligence (ECAI), 2020.

Establishing Reliability Metrics for Reward Models in Large Language Models.
- Yizhou Chen, Yawen Liu, Xuesi Wang, Guangda Huzhang, Anxiang Zeng, Han Yu, *Zhiming Zhou*, Xiaoxiao Li.
- Technical report, 2024.

Towards Efficient and Unbiased Implementation of Lipschitz Continuity in GANs.
- *Zhiming Zhou*, Jian Shen, Yuxuan Song, Weinan Zhang, Yong Yu.
- Technical report, 2019.

Large-Scale Optimal Transport via Adversarial Training with Cycle-Consistency.
- Guansong Lu, *Zhiming Zhou*, Jian Shen, Cheng Chen, Weinan Zhang, Yong Yu.
- Technical report, 2020.

Honors and Awards

Top 33% Reviewer for the thirty-seventh International Conference on Machine Learning (ICML). 2020.

Excellent Ph.D. Student Scholarship (Top 1%). Shanghai Jiao Tong University. 2019.

Excellent Intern Award. Microsoft Research Asia. 2016.

Excellent Intern Award. Microsoft Research Asia. 2014.

The First Prize in National Olympiad in Informatics in Provinces (NOIP). Jiangxi Province, China. 2009.