# Zhiming Zhou

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# **Employment**

#### Shanghai University of Finance and Economics.

Assistant Professor, School of Computing and Artificial Intelligence.

Assistant Professor, School of Information Management and Engineering.

Shanghai, China

Dec. 2024 - Now

Dec. 2020 - Dec. 2024

### Education

#### Shanghai Jiao Tong University.

Ph.D. in Computer Science, Advised by Prof. Yong Yu.

Shanghai, China

Sep. 2014 - Jun. 2020

#### Shanghai Jiao Tong University.

B.S. in Computer Science (ACM Class).

Shanghai, China 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**

#### Self-Supervised Disentanglement via Cluster-Dependent Rotational Equivariance.

- Junbing Liu, Zhiming Zhou.
- Preprint, 2025.

#### Towards Better Sharpness-Aware Minimization: A New Perspective and Method.

- Jianlong Chen, Zhiming Zhou.
- Preprint, Submitted to Annual Conference on Neural Information Processing Systems (NeurIPS), 2025

#### 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), 2025, Volume 3, Issue 3.

#### Establishing Reliability Metrics for Reward Models in Large Language Models.

- Yizhou Chen, Yawen Liu, Xuesi Wang, Guangda Huzhang, Anxiang Zeng, Han Yu, Zhiming Zhou.
- Preprint, 2024.

## 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.

#### 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.

## 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.

# 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.

# Large-Scale Optimal Transport via Adversarial Training with Cycle-Consistency.

- Guansong Lu, Zhiming Zhou, Jian Shen, Cheng Chen, Weinan Zhang, Yong Yu.
- Preprint, 2020.

#### 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.

## 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.

## 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.

## Towards Efficient and Unbiased Implementation of Lipschitz Continuity in GANs.

- Zhiming Zhou, Jian Shen, Yuxuan Song, Weinan Zhang, Yong Yu.
- Preprint, 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.

# 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.

# Unsupervised Diverse Colorization via Generative Adversarial Networks.

- Yun Cao, Zhiming Zhou, Weinan Zhang, Yong Yu.
- European Conference on Machine Learning (ECML), 2017.

## 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.

# **Honors and Awards**

Top 33% Reviewer. 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 and 2014.

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