YIDONG OUYANG

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EDUCATION

University of California, Los Angeles   August 2024 - June 2026
Ph.D. major in Statistics, Department of Statistics & Data Science
Advised by Guang Cheng   *Los Angeles*

The Chinese University of Hong Kong, Shenzhen   September 2021 - June 2024
M.Phil. major in Data Science, School of Data Science
Advised by Liyan Xie, co-advised by Guang Cheng   *Shenzhen*

Central University of Finance and Economics   September 2017 - June 2021
Bachelor major in Management Information Systems (GPA 90.48/100) top4/52   *Beijing*

Honors: **National Scholarship 2018** (only the top 1% of students can be entitled)

PUBLICATIONS

- ### Journal Articles
- [**J1**] Generalizing to Unseen Domains: A Survey on Domain Generalization. Jindong Wang, Cuiling Lan, Chang Liu, **Yidong Ouyang**, Tao Qin, Wang Lu, Yiqiang Chen, Wenjun Zeng, Philip S. Yu. IEEE Transactions on Knowledge and Data Engineering (TKDE) 2022.
- [**J2**] Learning Efficient Convolutional Networks through Irregular Convolutional Kernels. Weiyu Guo, Jiabin Ma, **Yidong Ouyang**, Liang Wang, Yongzhen Huang. Neurocomputing 2022.

  ### Conference Proceedings
- [**C1**] Transfer Learning for Diffusion Models. **Yidong Ouyang**, Liyan Xie, Hongyuan Zha, Guang Cheng, Neural Information Processing Systems (NeurIPS) 2024.
- [**C2**] Improving Adversarial Robustness by Sample-Efficient Synthetic Data Generation. **Yidong Ouyang**, Liyan Xie, Guang Cheng, International Conference on Machine Learning (ICML) 2023.
- [**C3**] Generalizing to Unseen Domains: A Survey on Domain Generalization. Jindong Wang, Cuiling Lan, Chang Liu, **Yidong Ouyang**, Tao Qin. International Joint Conference on Artificial Intelligence (IJCAI) 2021 survey track.

  ### Preprints
- [**P1**] Continual Density Ratio Estimation for Online Time Series with Applications in Change Detection. **Yidong Ouyang**, Liyan Xie.
- [**P2**] MissDiff: Training Diffusion Models on Tabular Data with Missing Values. **Yidong Ouyang**, Liyan Xie, Chongxuan Li, Guang Cheng. arXiv:2307.00467. (Presented in part in International Conference on Machine Learning (ICML) 2023 workshop on Structured Probabilistic Inference & Generative Modeling).
- [**P3**] Attention Enables Zero Approximation Error. Zhiying Fang, **Yidong Ouyang**, Ding-Xuan Zhou, Guang Cheng, arXiv:2202.12166.

HONORS AND AWARDS

- Graduate Dean's Scholars Award, UCLA, 2024.
- Duan Yong Ping Meritorious Research Award, CUHKSZ, 2023.
- The 4th TBSI Workshop on Learning Theory, Best Poster Award, Second Place, 2022.

· The Second Doctoral and Postdoctoral Academic Forum, Poster Runner Up, 2022.
· Excellence in Academic Research and Innovation Scholarship, CUFE, 2018.
· Comprehensive Development Scholarship, first prize, CUFE, 2018.

TEACHING EXPERIENCES

· Graduate Student Instructor for 2022 SDS new PhD student bootcamp, Summer 2022.
· Teaching Assistant, DDA4010 Bayesian Statistics, Spring 2022.
· Teaching Assistant, STA3020 Statistical Inference, Fall 2021.

PROFESSIONAL SERVICE

· Journal reviewer: IEEE Transactions on Neural Networks and Learning Systems (TNNLS), IEEE Transactions on Knowledge and Data Engineering (TKDE).
· Conference reviewer: NeurIPS 2023, 2024, ICLR 2024, 2025, ICML 2024, AAAI 2025