

Liangyu Zhang

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ACADEMIC POSITIONS

Shanghai University of Finance and Economics

Assistant Professor in the School of Statistics and Data Science

2024 – Present

EDUCATION

Peking University

Ph.D. in Data Science, advised by Professor Zhihua Zhang

2019 – 2024

Peking University

B.S. in Statistics

2015 – 2019

PUBLICATIONS AND PREPRINTS

Journal publications and preprints

- **Estimation and Inference in Distributional Reinforcement Learning.**
Liangyu Zhang, Yang Peng, Jiadong Liang, Wenhao Yang, Zhihua Zhang
Annals of Statistics (AoS), 53 (5), 1987-2011, 2025.
- **Semi-Infinitely Constrained Markov Decision Processes and Provably Efficient Reinforcement Learning.**
Liangyu Zhang, Yang Peng, Wenhao Yang, Zhihua Zhang
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 46 (5), 3722 - 3735, 2024.
Preliminary version appeared in Conference on Neural Information Processing Systems (NeurIPS) 2022.
- **Toward Theoretical Understandings of Robust Markov Decision Processes: Sample Complexity and Asymptotics.**
Wenhao Yang, Liangyu Zhang, Zhihua Zhang
Annals of Statistics (AoS), 50(6), 3223-3248, 2022.

Conference publications

- **A Finite Sample Analysis of Distributional TD Learning with Linear Function Approximation.**
Yang Peng, Kaicheng Jin, Liangyu Zhang, Zhihua Zhang
Conference on Neural Information Processing Systems (NeurIPS) 2025.
- **Statistical Efficiency of Distributional Temporal Difference.**
Yang Peng, Liangyu Zhang, Zhihua Zhang
Conference on Neural Information Processing Systems (NeurIPS) 2024.
(Oral Presentation, 0.3% acceptance rate)
- **Semi-Infinitely Constrained Markov Decision Processes.**
Liangyu Zhang, Yang Peng, Wenhao Yang, and Zhihua Zhang
Conference on Neural Information Processing Systems (NeurIPS) 2022.

GRANTS AND FUNDING

NSFC Young Scientists Fund C (Grant No. 12501707).

2026 – 2029

TEACHING EXPERIENCES

- Empirical Processes, Fall 2025. Shanghai University of Finance and Economics.
- Statistical Learning, Fall 2025. Shanghai University of Finance and Economics.
- Empirical Processes, Fall 2024. Shanghai University of Finance and Economics.

- Introduction to Statistics, Fall 2024. Shanghai University of Finance and Economics.

PROFESSIONAL SERVICES

Conference Reviewer

- Conference on Neural Information Processing Systems (NeurIPS): 2023-2025.
- International Conference on Machine Learning (ICML): 2023-2026.
- International Conference on Learning Representations (ICLR): 2024-2026.

Journal Referee

- Journal of Machine Learning Research (JMLR)
- SIAM Journal on Optimization (SIOPT)