

EDUCATION

- **Tsinghua University** Beijing, China
M.Eng. of Computer Technology; GPA 3.97/4.0 *Sept. 2021 - Jun. 2024*
 - **Service:** Served as the reviewer at top-tier machine learning conferences, including ICML, and NeurIPS.
 - **Relevant Course:** Stochastic Processes (A). Big Data Systems (A⁺). Digital Processing of Speech Signals (A). Data visualization (A⁺).
 - **Language Proficiency:** Attained a score of **101** on TOEFL, with a performance of 26 in Reading, 25 in Listening, 23 in Speaking, and 27 in Writing.
- **Nankai University** Tianjin, China
B.Eng. of Intelligent Science and Technology; GPA 93.28/100 (3.93/4.0). *Sept. 2017. - Jun. 2021*
 - **Honors:** Ranked 1st in my major and obtained the National Scholarship twice (Top 1).
 - **Service:** Served as the minister at the Faculty Student Council.

RESEARCH INTEREST

- **Primary:** Effective reinforcement learning and its applications to transfer learning, AGI and embodied AI.
- **Secondary:** Interpretability of reinforcement learning and its applications to effective agent learning.

PUBLICATIONS

1. **Fan, J.**, Xiao, C. Generalized Data Distribution Iteration. International Conference on Machine Learning 2022 (**ICML 2022**).
2. Wang, H., **Fan, J.**, Dai, Q., et al. Optimal Transport for Counterfactual Regression: A New Perspective. Thirty-seventh Conference on Neural Information Processing Systems (**NeurIPS 2023**), under review
3. Wang, H., Lian J., Wu M., Li H., Xu W, **Fan J.**, Li C., Xie X. ConvFormer: Revisiting Transformers for User Behavior Understanding. Thirty-seventh Conference on Neural Information Processing Systems (**NeurIPS 2023**), under review
4. Huang Y., Chen Z, Li H., **Fan J.**, Pan L., Liu Z., Wang H. Learning to Rank for Temporal Point Process Modeling: A Hybrid Retrieval Approach with Two-Tower Architecture. Thirty-seventh Conference on Neural Information Processing Systems (**NeurIPS 2023**), under review
5. Wang, H., Chen, Z., **Fan, J.**, et al. Entire Space Counterfactual Learning: Tuning, Analytical Properties and Industrial Applications. The IEEE Transactions on Neural Networks and Learning Systems (**TNNLS**), under review.
6. **Fan, J.**, Xiao, C., & Huang, Y. GDI: Rethinking What Makes Reinforcement Learning Different From Supervised Learning. In the proceedings of **AAAI-22** Workshop on Reinforcement Learning in Games, 2021.
7. Xiao, C., Shi, H., **Fan, J.**, & Deng, S. An Entropy Regularization Free Mechanism for Policy-based Reinforcement Learning. arXiv preprint arXiv:2106.00707.
8. Xiao, C., Shi, H., **Fan, J.**, & Deng, S. CASA: A Bridge Between Gradient of Policy Improvement and Policy Evaluation. In the proceedings of Deep Reinforcement Learning Workshop **NeurIPS 2022**, 2022.
9. **Fan, J.** A Review for Deep Reinforcement Learning in Atari: Benchmarks, Challenges, and Solutions. In the proceedings of **AAAI-22** Workshop on Reinforcement Learning in Games, 2021.
10. **Fan, J.**, Ba, H., Guo, X., & Hao, J. Critic PI2: Master Continuous Planning via Policy Improvement with Path Integrals and Deep Actor-Critic Reinforcement Learning. arXiv preprint arXiv:2011.06752.

AWARDS

- Outstanding Graduates (1%) Tianjin, China, 2021
- Excellent Graduation Thesis of Nankai University Tianjin, China, 2021
- Tang Lixin Scholarship (1%) Tianjin, China, 2021
- **National Scholarship**, Nankai University (Top 1) Tianjin, China, 2020
- Nomination for Zhou Enlai Scholarship Tianjin, China, 2020
- **National Scholarship**, Nankai University (Top 1) Tianjin, China, 2019
- 3rd Prize, Robocup@HOME Education World Final Sydney, Australia, 2019
- Bronze Medal, **ACM / ICPC** Asia Regional Contest Xuzhou, China, 2019
- National 2st Prize, National College Students Mathematical Contest in Modeling Tianjin, China, 2018
- The First Prize Scholarship, Nankai University (Top 2) Tianjin, China, 2018

ACADEMIC SERVICE

- Reviewer of Thirty-seventh Annual Conference on Neural Information Processing Systems. NeurIPS 2023
- Reviewer of The Fortieth International Conference on Machine Learning. ICML 2023
- Reviewer of Thirty-sixth Conference on Neural Information Processing Systems. NeurIPS 2022