

## EDUCATION

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### Shanghai Jiao Tong University

Ph.D. Student in Computer Science and Engineering

Shanghai, China

Sept. 2021 - present

- Advisor: Prof. Shuai Li
- GPA: 3.13/4.0

### Shandong University

B.Eng. in Software Engineering

Jinan, Shandong Province, China

Sept. 2017 - Jun. 2021

- GPA: 4.73/5.0, ranking: 2/342 (until 2020/06/15)

### Henan Experimental High School

High School Student

Zhengzhou, Henan Province, China

Sept. 2014 - Jun. 2017

## RESEARCH INTERESTS

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### Reinforcement Learning

I currently focus on the theory of reinforcement learning.

- Provable reinforcement learning algorithms.
- Bandits.

### Applications

I am also interested in some applications of reinforcement learning such as data mining and recommender systems.

## PUBLICATIONS AND PREPRINTS

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- [1] F. Kong, **C. Zhao**, and S. Li, “Best-of-three-worlds analysis for linear bandits with follow-the-regularized-leader algorithm”, in *Conference on Learning Theory, COLT 2023*, ser. Proceedings of Machine Learning Research, PMLR, 2023.
- [2] Q. Li\*, C. Zhao\*, T. Yu, J. Wu, and S. Li, “Clustering of conversational bandits with posterior sampling for user preference learning and elicitation”, *User Modeling and User-Adapted Interaction*, pp. 1–48, 2023.
- [3] **C. Zhao**, R. Yang, B. Wang, and S. Li, “Learning adversarial linear mixture markov decision processes with bandit feedback and unknown transition”, in *The Eleventh International Conference on Learning Representations, ICLR 2023, Kigali Rwanda, May 1-5, 2023*, 2023.
- [4] **C. Zhao**, Y. Ze, J. Dong, B. Wang, and S. Li, “Differentially private temporal difference learning with stochastic nonconvex-strongly-concave optimization”, in *WSDM '23: Web Search and Data Mining 2023*, ACM, 2023.
- [5] C. Zhao\*, Y. Ze\*, J. Dong, B. Wang, and S. Li, “Dpmac: Differentially private communication for cooperative multi-agent reinforcement learning”, in *Proceedings of the Thirty-Second International Joint Conference on Artificial Intelligence, IJCAI 2023*, 2023.
- [6] C. Chen, **C. Zhao**, and S. Li, “Simultaneously learning stochastic and adversarial bandits under the position-based model”, in *Thirty-Sixth AAAI Conference on Artificial Intelligence, AAAI 2022*, AAAI Press, 2022, pp. 6202–6210.

- [7] **C. Zhao**, T. Yu, Z. Xie, and S. Li, “Knowledge-aware conversational preference elicitation with bandit feedback”, in *WWW '22: The ACM Web Conference 2022, Virtual Event, Lyon, France, April 25 - 29, 2022*, ACM, 2022, pp. 483–492.
- [8] J. Wu\*, C. Zhao\*, T. Yu, J. Li, and S. Li, “Clustering of conversational bandits for user preference learning and elicitation”, in *CIKM '21: The 30th ACM International Conference on Information and Knowledge Management, Virtual Event, Queensland, Australia, November 1 - 5, 2021*, ACM, 2021, pp. 2129–2139.
- [9] Z. Xie, T. Yu, **C. Zhao**, and S. Li, “Comparison-based conversational recommender system with relative bandit feedback”, in *SIGIR '21: The 44th International ACM SIGIR Conference on Research and Development in Information Retrieval, Virtual Event, Canada, July 11-15, 2021*, ACM, 2021, pp. 1400–1409.

(\* indicates equal contribution.)

## EXPERIENCE

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### Academic Services

Reviewer/sub-reviewer

- ICLR 2023
- NeurIPS 2021, 2022, 2023
- ICML 2021, 2022, 2023
- UAI 2021, 2022, 2023
- AAMAS 2021, 2022
- AISTATS 2023
- JSAIT 2021
- TNNLS 2023

### Reading Groups

The reading groups I attended mainly focus on reinforcement learning, online learning and optimization.

- *Algorithmic Game Theory*, 2023
- *A Modern Introduction to Online Learning*, 2022
- *Reinforcement Learning: Theory and Algorithms*, 2022
- *Large-Scale Optimization for Data Science*, 2021
- *Bandit Algorithms*, 2020

## CONTESTS

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| • Kaggle Santa 2020 - The Candy Cane Contest - Silver Medal (Top 6%)                       | Jan. 2021  |
| • The 2019 ACM-ICPC Asia Regional Contest - Bronze Medal                                   | Oct. 2019  |
| • The 2019 ACM-ICPC China Shandong Provincial Programming Contest - Silver Medal           | May. 2019  |
| • China Undergraduate Mathematical Contest in Modeling - Second Prize in Shandong Province | Sept. 2018 |

## HONORS

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- The Third Excellent Doctoral Academic Forum of John Hopcroft Center - The First Prize Dec. 2022
- Huatai Securities Scholarship of Shanghai Jiao Tong University Dec. 2022
- Weichai Power Scholarship in Shandong University Oct. 2019
- Shandong University Academic Scholarship - Second-class Sept. 2019
- Shandong University Research and Innovation Scholarship - Second-class Sept. 2019
- Shandong University Academic Scholarship - First-class Sept. 2018
- Shandong University Research and Innovation Scholarship - Second-class Sept. 2018
- Shandong University Triple-A Student Sept. 2018
- Huawei Scholarship in Shandong University Oct. 2018