

Dingyang Chen

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Education

PhD, Computer Science May 2021 - Current
University of South Carolina, Columbia, SC, USA
Advisor: Qi Zhang

MEng, Electrical Engineering and Computer Sciences Aug 2018 - May 2019
University of California, Berkeley, Berkeley, CA, USA

BS, Computer Science Aug 2014 - May 2018
University of Illinois at Urbana-Champaign, Champaign, IL, USA

Professional Experience

Amazon, Bellevue, WA Summer 2024
Applied Scientist Intern
Mentor: Zhenyu Zhang

- Work on cost of goods prediction.

Siemens, Princeton, NJ Summer 2022
Research Intern
Mentor: Yubo Wang

- Apply reinforcement learning algorithm (Alpha Go) on power system reconfiguration.

Publications

Conference Proceedings

- Reinforcement Learning with Euclidean Data Augmentation for State-Based Continuous Control.**
Jinzhu Luo, Dingyang Chen, Qi Zhang
Neural Information Processing Systems (NeurIPS) 2024.
- Efficient Sequential Decision Making with Large Language Models.**
Dingyang Chen, Qi Zhang, Yinglun Zhu
Empirical Methods in Natural Language Processing (EMNLP) 2024.
- E(3)-Equivariant Actor-Critic Methods for Cooperative Multi-Agent Reinforcement Learning.**
Dingyang Chen, Qi Zhang
International Conference on Machine Learning (ICML) 2024.
- Context-Aware Bayesian Network Actor-Critic Methods for Cooperative Multi-Agent Reinforcement Learning.**
Dingyang Chen, Qi Zhang
International Conference on Machine Learning (ICML) 2023.

5. **Communication-Efficient Actor-Critic Methods for Homogeneous Markov Games.**

Dingyang Chen, Qi Zhang

International Conference on Learning Representations (ICLR) 2022.

Refereed Workshop Proceedings

6. **Convergence Rates of Bayesian Network Policy Gradient for Cooperative Multi-Agent Reinforcement Learning.**

Dingyang Chen, Zhenyu Zhang, Xiaolong Kuang, Xinyang Shen, Ozalp Ozer, Qi Zhang

Workshop on Bayesian Decision-making and Uncertainty at NeurIPS 2024.

7. **Convergence and Price of Anarchy Guarantees of the Softmax Policy Gradient in Markov Potential Games.**

Dingyang Chen, Qi Zhang, Thinh T. Doan

Decision Awareness in Reinforcement Learning Workshop at ICML 2022.

8. **A Meta-Gradient Approach to Learning Cooperative Multi-Agent Communication Topology.**

Qi Zhang, Dingyang Chen

Workshop on Meta-Learning at NeurIPS 2021.

Professional Service

Conference Reviewer

AAAI'25, ICML'24, ICLR'24, NeurIPS'23, and NeurIPS'22 Deep RL Workshop

Journal Reviewer

IEEE TNNLS

Honors & Awards

Fung Excellence Scholarship (USD 10000), University of California, Berkeley, 2018

Graduation with honors, University of Illinois at Urbana-Champaign, 2018

Dean's List, University of Illinois at Urbana-Champaign, 2014, 2015, 2017

Edmund J James Scholar, University of Illinois at Urbana-Champaign, 2014

Teaching Experience

Graduate Teaching Assistant - Visualization Tools, University of South Carolina [FA24]

Graduate Teaching Assistant - Algorithmic Design I, University of South Carolina [FA23]