

Dingyang Chen

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Education

- PhD**, Computer Science May 2021 - Present
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**, Seattle, WA Jan 2025 - Present
Applied Scientist
- Working on post-training of LLMs for customer service business applications.
- Amazon**, Bellevue, WA May 2024 - Aug 2024
Applied Scientist Intern
- Developed models for cost-of-goods prediction to improve forecasting accuracy.
- Siemens**, Princeton, NJ May 2022 - Aug 2022
Research Intern
- Applied reinforcement learning algorithms to optimize 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 2025, ICML 2024 & 2025, ICLR 2024, NeurIPS 2023, and the NeurIPS 2022 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]