

# Dingyang Chen

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## Education

**PhD**, Computer Science May 2021 - May 2025 (expected)  
**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

### Preprints

1. **Efficient Sequential Decision Making with Large Language Models**  
Dingyang Chen, Qi Zhang, Yinglun Zhu

### Conference Proceedings

2. **E(3)-Equivariant Actor-Critic Methods for Cooperative Multi-Agent Reinforcement Learning.**  
Dingyang Chen, Qi Zhang  
The 41th International Conference on Machine Learning (ICML 2024).
3. **Context-Aware Bayesian Network Actor-Critic Methods for Cooperative Multi-Agent Reinforcement Learning.**  
Dingyang Chen, Qi Zhang  
The 40th International Conference on Machine Learning (ICML 2023).
4. **Communication-Efficient Actor-Critic Methods for Homogeneous Markov Games.**  
Dingyang Chen, Qi Zhang  
The 10th International Conference on Learning Representations (ICLR 2022).

### Refereed Workshop Proceedings

5. **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.

6. **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/Program Committee**

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]