

Qiwen Cui

Paul G. Allen School of Computer Science & Engineering

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RESEARCH INTERESTS

Machine Learning, Learning Theory, Reinforcement Learning, Game Theory

EDUCATION

Washington University, Seattle

Sep. 2021 - Present

- Ph.D. student in Computer Science & Engineering
- Advisor: Simon Shaolei Du

Peking University

Sep. 2017 - July. 2021

- B.S. in Statistics
- Advisor: Zaiwen Wen

PUBLICATIONS

1. Haque Ishfaq*, **Qiwen Cui***, Viet Nguyen, Alex Ayoub, Zhuoran Yang, Zhaoran Wang, Doina Precup, Lin F Yang
Randomized Exploration for Reinforcement Learning with General Value Function Approximation
In International Conference on Learning Representations (ICML) 2021
2. **Qiwen Cui**, Lin F. Yang
Minimax sample complexity for turn-based stochastic game
Uncertainty in Artificial Intelligence (UAI) 2021
3. **Qiwen Cui**, Qingxiao Chen, Pufan Liu, Debin Liu, Zaiwen Wen
Clinical decision support model for tooth extraction therapy derived from electronic dental records
The Journal of Prosthetic Dentistry 2021
4. **Qiwen Cui**, Lin F. Yang
Is Plug-in Solver Sample-Efficient for Feature-based Reinforcement Learning?
Conference on Neural Information Processing Systems (NeurIPS) 2020

PREPRINTS

1. Zhihan Xiong*, Ruoqi Shen*, **Qiwen Cui***, Simon S. Du
Near-Optimal Randomized Exploration for Tabular MDP
<https://arxiv.org/abs/2102.09703>
2. Minghan Yang, Dong Xu, **Qiwen Cui**, Zaiwen Wen, Pengxiang Xu
A Multi-Step Matrix-Product Natural Gradient Method for Deep Learning
<https://arxiv.org/abs/2106.07454>

AWARDS/HONORS

Elite Undergraduate Training Program of Applied Mathematics (top 15%)

1st Prize in Mathematics Competition of Chinese College Student

1st Prize in National High School Mathematics Competition

PROFESSIONAL ACTIVITIES

Paper Reviewer: ICML 2021, UAI2021