Qiwen Cui

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RESEARCH INTERESTS

Machine Learning, Learning Theory, Reinforcement Learning, Game Theory

EDUCATION

University of Washington, 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