Weihang Xu

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Research Interests

Deep learning theory, Representation learning, Optimization

Education

2023 – Present	**University of Washington** – Seattle, United States **Paul G. Allen School of Computer Science & Engineering** Ph.D student Advisors: Simon S. Du, Maryam Fazel
2019 – 2023	**Tsinghua University** – Beijing, China **Institute for Interdisciplinary Information Sciences (Yao Class)** Bachelor of Engineering in Computer Science

Publications

* denotes equal contribution

Over-Parameterization Exponentially Slows Down Gradient Descent for Learning a Single Neuron (paper)
Weihang Xu, Simon S. Du
In Conference on Learning Theory (COLT) 2023
Oral presentation at High-dimensional learning dynamics workshop at ICML 2023

Combinatorial Bandits with Linear Constraints: Beyond Knapsacks and Fairness (paper)
Qingsong Liu*, **Weihang Xu***, Siwei Wang, Zhixuan Fang.
In Conference on Neural Information Processing Systems (NeurIPS) 2022.

Awards and Honors

Oct. 2022	Science and Technology Innovation Excellence Award — IIIS, Tsinghua University Academic Excellence Award — IIIS, Tsinghua University
Nov. 2018	Chinese Mathematical Olympiad (CMO), Gold Medal (ranked 44th nationwide)