Yue Wu

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AREAS OF RESEARCH

- Statistical Machine Learning
- Deep Learning Theory
  - Learning Dynamics of deep neural networks, including neural tangent kernel theory
  - Attention, mixture of experts
- Contextual Bandit and Reinforcement Learning Theory
  - RL with function approximation
  - Active rank aggregation via contextual bandit theory

ACADEMIC AND RESEARCH EMPLOYMENT

NEC Laboratories America, Princeton, New June. 2022 - Sept. 2022

Research Intern

- Personalized Federated Learning under Linear Mixture of Distributions

EDUCATION

UNIVERSITY OF CALIFORNIA, LOS ANGELES Sept. 2019 - Now

Doctor of Philosophy in Computer Science

- **Advisor:** Quanquan Gu, Associate Professor at Department of Computer Science

PEKING UNIVERSITY, CHINA Sept. 2015 - Jul. 2019

Bachelor of Science in Machine Intelligence

- **Academics:** Overall GPA: 3.83/4.00, Ranking 1/53
- **Honors and Awards:** National Scholarship (2017)

PUBLICATION

- To What Extent Do Different Neural Networks Learn the Same Representation: A Neuron Activation Subspace Match Approach (NeurIPS'18)
  Lunjia Hu, Jiayuan Gu, **Yue Wu**, Zhiqiang Hu, Liwei Wang.
- Towards Understanding the Spectral Bias of Deep Learning (IJCAI'21)
  Yuan Cao*, Zhiying Fang*, **Yue Wu***, Dingxuan Zhou, Quanquan Gu.
- A Finite-Time Analysis of Two Time-Scale Actor-Critic Methods (NeurIPS'20)
  Yue Wu, Weitong Zhang, Pan Xu, Quanquan Gu.
- Nearly Minimax Optimal Regret for Learning Infinite-horizon Average-reward MDPs with Linear Function Approximation (AISTATS'22)
  Yue Wu, Dongruo Zhou, Quanquan Gu.
- Adaptive Sampling for Heterogeneous Rank Aggregation from Noisy Pairwise Comparisons (AISTATS'22)

Yue Wu*, Tao Jin*, Hao Lou, Pan Xu, Farzad Farnoud, Quanquan Gu.

- Towards Understanding the Mixture-of-Experts Layer in Deep Learning (NeuIPS'22)
  Zixiang Chen, Yihe Deng, **Yue Wu**, Quanquan Gu, Yuanzhi Li
- Active Ranking without Strong Stochastic Transitivity (NeurIPS'22)
  Hao Lou, Tao Jin, **Yue Wu**, Pan Xu, Quanquan Gu, Farzad Farnoud

'*' denotes equal contributions

SKILLS

- Programming Language: C++, Python
- Deep Learning Framework: PyTorch