**Yue Wu**

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**AREAS OF RESEARCH**

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* 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**

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

*Research Intern*

* Personalized Federated Learning under Linear Mixture of Distributions

**EDUCATION**

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**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**

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* 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**

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