

Runtian Zhai

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EDUCATION

Computer Science Department, Carnegie Mellon University

Ph.D. candidate

Aug 2020 - May 2025 (expected)

- Co-advised by Zico Kolter and Pradeep Ravikumar.
- Research focus: Distributional shift in machine learning, distributionally robust optimization, algorithmic fairness, domain adaptation, optimization and generalization theory.

School of Electronics Engineering and Computer Science, Peking University (PKU)

B.S. in Computer Science

Sep 2016 - Jul 2020

- Major GPA: 3.75/4.0
- Research funded by MOE Top-notch Undergraduate Program. (20/350 students a year)

School of Mathematical Sciences, PKU

B.S. in Applied Mathematics (Double Major)

Sep 2017 - Jul 2020

- Major GPA: 3.57/4.0

SKILLS

- Over 200k lines of code in Python and PyTorch. Also familiar with Tensorflow and Keras.
- Programming Languages: Python, C/C++, Java, MATLAB, HTML/CSS/JS, PHP.

SELECTED PUBLICATIONS AND PREPRINTS

R. Zhai, C. Dan, A.S. Suggala, J.Z. Kolter, P. Ravikumar. *Boosted CVaR Classification*. To appear in NeurIPS 2021.

R. Zhai*, C. Dan*, J.Z. Kolter, P. Ravikumar. *DORO: Distributional and Outlier Robust Optimization*. ICML 2021.

R. Zhai*, C. Dan*, D. He*, H. Zhang, L. Wang, P. Ravikumar, B. Gong, C.J. Hsieh. *MACER: Attack-free and Scalable Robust Training via Maximizing Certified Radius*. ICLR 2020.

R. Zhai*, T. Cai*, D. He*, C. Dan, K. He, J.E. Hopcroft, L. Wang. *Adversarially Robust Generalization Just Requires More Unlabeled Data*. Preprint, arXiv: 1906.00555.

EMPLOYMENT

Microsoft Research Asia (MSRA)

Research Intern in Machine Learning (ML) Group. Mentor: Di He

Sep 2019 - Jun 2020

- Conducted research on adversarial robustness, semi-supervised learning and transfer learning.

HONORS AND AWARDS

- Research funded by PKU MOE Top-Notch Undergraduate Program (20 students a year) *May 2019*
- Changfei Scholarship for Outstanding Students at PKU (top 5%) *Sep 2017*