

Jifan Zhang

CS Ph.D. Student at University of Wisconsin

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Education

Sep 2021 - University of Wisconsin, Madison
Research interest: large-scale and robust active learning.
Advisor: Robert Nowak

Sep 2016 - Mar 2021 University of Washington, Seattle
Mar 2021 M.S. in Computer Science, GPA: 3.98 / 4.0
Mar 2019 B.S. in Computer Science (minor in Mathematics), GPA: 3.94 / 4.0
Advisor: Kevin Jamieson

Research Experience

Mar 2019 - Washington AI Lab
Mar 2021 *Research Assistant, advised by Professor Kevin Jamieson*

- Working on both theoretical and empirical perspectives of active learning algorithms
- Proposed novel learning to actively learn procedure for training optimal policy while obtaining same level of robustness as theoretically justified ones

June 2017 - Robotics and State Estimation Lab
June 2019 *Research Assistant, advised by Tanner Schmidt and Professor Dieter Fox*

- Built multi-tasking deep learning structures for computer vision and robotics tasks with both Back Propagation and Equilibrium Propagation (for energy based models)

June 2018 - SAMPL Group
Sep 2018 *Research Assistant, advised by Professor Zachery Tatlock*

- Worked on the Relay project (part of TVM, a deep learning library). Designing better intermediate tensor representation for the compiler

Industry Experience

May 2021 - Google, Ads pCTR Team
Aug 2021 *Software Engineering Intern*

- Research on improving Ad click prediction training efficiency by subselecting useful datapoints based on model uncertainty

June 2020 - Google, Geo 3D Reconstruction Team
Sep 2020 *Software Engineering Intern*

- Researched on and implemented multi-view texturing algorithms for Google Map's 3D reconstructed models at scale

June 2019 - Facebook, ML Data Platform Team
Sep 2019 *Software Engineering Intern*

- Prototyped distributed systems for large scale Machine Learning services of data pre-processing
- Constantly communicated with and employed services from five different teams

Refereed Publication

- *Improved Algorithms for Agnostic Pool-based Active Classification*
Julian Katz-Samuels, **Jifan Zhang**, Lalit Jain, Kevin Jamieson.
ICML 2021.

Preprint

- *Learning to Actively Learn: A Robust Approach*
Jifan Zhang, Kevin Jamieson.
arXiv:2010.15382. October 2020.

Teaching

Jan 2017 - University of Washington, Allen School of Computer Science and Engineering
Mar 2021 *Teaching Assistant*

- Graduate Courses: CSE 599G1 Deep Learning, CSE 546 Machine Learning
- Undergraduate Courses: CSE 446 Machine Learning, CSE 473(major)/415(non-major) Artificial Intelligence, CSE 341 Programming Languages
- Assist with overall course planning and development; design homework and exam problems; lead and prepare weekly sections; hold weekly office hours

Awards

- **Microsoft Endowed Scholarship: recipient**
- **ACM-ICPC (Pacific Northwest Region): 5th place**
- **William Lowell Putnam Mathematical Competition: ranked 439 as sophomore and 733 as freshman**
- **UW Honors Calculus Award: One student per year awarded by the math department**