

# Jifan Zhang

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## CS Ph.D. Student at University of Wisconsin

**Homepage**      <https://homes.cs.washington.edu/~jifan/>  
**Email**            [jifan@cs.washington.edu](mailto:jifan@cs.washington.edu)  
**Mobile Phone**    +1 (609) 608 5107

## 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**