Hongyi Wang

PERSONAL DETAILS

Address	3533, 1415 Engineering Dr, Madison, WI, 53706
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EDUCATION

Ph.D. Computer Sciences 2016-present
University of Wisconsin-Madison

- **Research Interests**: large-scale machine learning, optimization, distributed systems

BSc. Electronic and Information Engineering 2012-2016
Hangzhou Dianzi University (HDU)

- **GPA**: 4.8/5.0 (93.3/100)
- **Ranking**: 1/250
- **Advised by**: Prof. Kaixin Song and Prof. Zhonghai Zhang
- **Research Interests**: RF Circuits, Wireless Sensor Network, Wireless Communication

WORK EXPERIENCE

Research Assistant 2017-present
Electrical and Computer Engineering at UW-Madison,
supervised by Prof. Dimitris Papailiopoulos

Working on research involves machine learning, parallel and distributed algorithm

Research Assistant 2016-2017
Visual Computing Lab of CS at UW-Madison,
supervised by Prof. Michael Gleicher

Worked on UW2020 Discovery Initiative project *Physically-Responsive Collaborative Robot Manipulation*, funded by Wisconsin Alumni Research Foundation (WRAF)

HONORS & AWARDS

- Student Travel Award, ICML2018, *2018*
- Outstanding undergraduate thesis of HDU, *2016*
- National Scholarship of China (Top 2%), *2015*
- Huawei Scholarship (by Huawei Technologies Co., Ltd), *2015*
- First-Class Scholarship for Outstanding Students of HDU (Top 5%), *2012-2015*

PUBLICATIONS

Preprints:

L. Chen, **H. Wang**, J. Zhao, D. Papailiopoulos, and P. Koutris. "The Effect of Network Width on the Performance of Large-batch Training", *Submitted*. [PDF]

H. Wang, S. Sievert, Z. Charles, D. Papailiopoulos, S. Wright. "Atomo: Communication-efficient Learning via Atomic Sparsification ", *Submitted*. [PDF]

Conference:

L. Chen, **H. Wang**, Z. Charles, and D. Papailiopoulos. "Draco: Robust Distributed Training via Redundant Gradients", *Thirty-fifth International Conference on Machine Learning* (ICML2018). [PDF]

L. Chen, **H. Wang**, and D. Papailiopoulos. "Draco: Robust Distributed Training against Adversaries" *SysML* 2018 [PDF].

G. Subramani, D. Rakita, **H. Wang**, J. Black, M. Zinn, and M. Gleicher. "Recognizing Actions during Tactile Manipulations through Force Sensing", *IEEE/RSJ International Conference on Intelligent Robots and Systems* (IROS) 2017 [PDF][Project Website].

SKILLS

Programming	C/C++, Python, Scala, Java, MATLAB
Other	TensorFlow, PyTorch, MXNet, MPI, Spark, AWS, ROS, Moveit
Hardware	RF Circuit Design, PCB Design, Embedded Systems