

Zonghao Huang

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RESEARCH INTEREST

- Trustworthy Machine Learning, Differential Privacy, Stochastic Optimization, Learning Theory, Theoretical Computer Science

EDUCATION

Oklahoma State University

M.Sc. in Electrical & Computer Engineering

Thesis: *Differentially Private ADMM for Privacy-Preserving Distributed Learning*

Stillwater, USA

Jan. 2017 - Dec. 2019

Nanyang Technological University

M.Sc. in Electronics

Singapore

Jul. 2015 - Jun. 2016

Xiamen University

B.Eng. in Electronic & Information Engineering; rank: 10/106

Xiamen, China

Sept. 2011 - Jul. 2015

Honor: Graduated with First-Class Scholarship of Academic Excellence (top 10%)

WORK EXPERIENCE

Graduate Teaching Assistant

School of Electrical and Computer Engineering, Oklahoma State University, Stillwater, USA

Aug. 2019 - Dec. 2019

Course: ECEN 4024 Senior Design 2

Graduate Research Assistant

School of Electrical and Computer Engineering, Oklahoma State University, Stillwater, USA

Jan. 2017 - Jul. 2019

Research: *Differentially Private Distributed Machine Learning*

PUBLICATIONS

• Peer-Reviewed Published Papers:

- Zonghao Huang, Rui Hu, Yuanxiong Guo, Eric Chan-Tin, Yanmin Gong, “[DP-ADMM: ADMM-based Distributed Learning with Differential Privacy](#)”, *IEEE Transactions on Information Forensics and Security (TIFS)*, 2020.
- Zonghao Huang, Miao Pan, Yanmin Gong, “[Robust Truth Discovery Against Data Poisoning in Mobile Crowdsensing](#)”, *Proceedings of the 2019 IEEE Global Communications Conference (GLOBECOM)*, 2019.
- Zonghao Huang, Yanmin Gong, “[Differential Location Privacy for Crowdsourced Spectrum Sensing](#)”, *Proceedings of the 2017 IEEE Conference on Communications and Network Security (CNS)*, 2017.

• Papers in Preprint:

- Zonghao Huang, Yanmin Gong, “[Differentially Private ADMM for Convex Distributed Learning: Improve Accuracy with Multi-Step Approximation](#)”, *arXiv preprint*, 2020.

AWARDS AND HONORS

- **Student Travel Grant for IEEE CNS 2017**, National Science Foundation and Army Research Office, USA, 2017
- **First-Class Graduate Scholarship of Academic Excellence**, Xiamen University, China, 2015
- **Graduate Scholarship of Recreation and Sports Excellence**, Xiamen University, China, 2015
- **Second-Class Scholarship of Academic Excellence**, Xiamen University, China, 2014
- **First-Class Scholarship of Academic Excellence**, Xiamen University, China, 2013
- **First-Class Scholarship of Academic Excellence**, Xiamen University, China, 2012

ACADEMIC ACTIVITIES

• Reviewer for Conference Manuscript Submissions :

- IEEE International Conference on Computer Communications (INFOCOM) 2018;
- IEEE International Conference on Communications (ICC) 2018;
- IEEE Conference on Communications and Network Security (CNS) 2018.

• IEEE Student Member: Communication Society

• Conference Presentation:

- “Differential Location Privacy for Crowdsourced Spectrum Sensing”, *IEEE Conference on Communications and Network Security (CNS)*, Las Vegas, NV, USA, October 9-11, 2017.

PROGRAMING SKILLS AND LANGUAGES

- **Programming:** MATLAB (proficient), C (good), Python (good), Latex (proficient)
- **Languages:** English (proficient), Chinese (native), Cantonese (native)