

# Zonghao Huang

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## RESEARCH INTEREST

- Trustworthy Machine Learning, Differential Privacy, Stochastic Optimization, Data Privacy and Security, Learning Theory

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## EDUCATION

### Oklahoma State University

*M.S. in Electrical and Computer Engineering*

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

Stillwater, U.S.

Jan. 2017 - Dec. 2019

### Nanyang Technological University

*M.S. in Electronics*

Singapore

Jul. 2015 - Jun. 2016

### Xiamen University

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

Xiamen, China

Sept. 2011 - Jul. 2015

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

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## WORK EXPERIENCE

### Graduate Teaching Assistant

*School of Electrical and Computer Engineering, Oklahoma State University, Stillwater, U.S.*

Aug. 2019 - Dec. 2019

**Course:** ECEN 4024 Senior Design 2

### Graduate Research Assistant

*School of Electrical and Computer Engineering, Oklahoma State University, Stillwater, U.S.*

Jan. 2017 - Jul. 2019

**Research:** *Differentially Private Distributed Machine Learning*

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## PUBLICATIONS

- **Peer-Reviewed Journal 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)*, vol. 15, pp. 1002-1012, 2020.
- **Peer-Reviewed Conference Papers:**
  - Zonghao Huang, Miao Pan, Yanmin Gong, “[Robust Truth Discovery Against Data Poisoning in Mobile Crowdsensing](#)”, *IEEE Global Communications Conference (GLOBECOM)*, Waikoloa, HI, U.S., 9-13 December, 2019.
  - Zonghao Huang, Yanmin Gong, “[Differential Location Privacy for Crowdsourced Spectrum Sensing](#)”, *IEEE Conference on Communications and Network Security (CNS)*, Las Vegas, NV, U.S., October 9-11 (pp. 1-9), 2017.
- **Papers in Preprint:**
  - Zonghao Huang, Yanmin Gong, “[Differentially Private ADMM for Convex Distributed Learning: Improve Accuracy with Multi-Step Approximation](#)”, *arXiv preprint*, 2020.

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## AWARDS AND HONORS

- **Student Travel Grant for IEEE CNS 2017**, National Science Foundation and Army Research Office, U.S., 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, 2012

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## 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, U.S., October 9-11, 2017.

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## PROGRAMING SKILLS AND LANGUAGES

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