

# Zonghao Huang

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## RESEARCH INTEREST

- Theoretical Computer Science, Trustworthy Machine Learning, Cryptography, Differential Privacy, Distributed Optimization, ADMM

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## EDUCATION

### Duke University

*Ph.D. in Computer Science*

Durham, NC, USA

Aug. 2020 - Present

### Oklahoma State University

*M.S. in Electrical & Computer Engineering*

Stillwater, OK, USA

Jan. 2017 - Dec. 2019

### Nanyang Technological University

*M.S. in Electronics*

South West, Singapore

Aug. 2015 - Jul. 2016

### Xiamen University

*B.Eng. in Electronic & Information Engineering (rank: top 10%)*

Xiamen, Fujian, China

Sept. 2011 - Jul. 2015

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## RESEARCH EXPERIENCE

### Research Intern

Department of Computer Science, The University of Hong Kong, Hong Kong, China

Oct. 2020 - Present

**Research:** Privacy-preserving Algorithms and Machine Learning, Advisor: Dr. Hubert T. H. Chan

### Graduate Research Assistant

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

Jan. 2017 - Jul. 2019

**Research:** Differentially Private Distributed Machine Learning

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## PUBLICATIONS AND MANUSCRIPTS

### • 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.

### • Manuscripts 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

- **Duke CS Ph.D. Fellowship**, Department of Computer Science, Duke University, USA 2020 - 2022
- **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, 2012

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## TEACHING EXPERIENCE

### ECEN 4024 Senior Design 2

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

Fall 2019

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## ACADEMIC ACTIVITIES

### • Reviewer for Conference Manuscript Submissions :

- IEEE INFOCOM 2018, IEEE ICC 2018, IEEE CNS 2018.

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## PROGRAMING SKILLS AND LANGUAGES

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