Zonghao Huang

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RESEARCH INTEREST

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

EDUCATION

Oklahoma State University — Stillwater, U.S.
M.S. in Electrical and Computer Engineering — *Jan. 2017 - Dec. 2019*
Thesis: *Differentiallly Private ADMM for Privacy-Preserving Distributed Learning*

Nanyang Technological University — Singapore
M.S. in Electronics — *Jul. 2015 - Jun. 2016*

Xiamen University — Xiamen, China
B.E. in Electronic & Information Engineering; rank: 10/106 — *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, 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*

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), 2020.*

- **Peer-Reviewed Conference Papers:**
  - **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, 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

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.*

PROGRAMING SKILLS AND LANGUAGES

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