

# Zonghao Huang

Email: [zonghao.huang@duke.edu](mailto:zonghao.huang@duke.edu) | Homepage: <https://zonghaohuang007.github.io/home/>

Address: LSRC Building D124, 308 Research Drive, Durham, NC, 27708

## RESEARCH INTEREST

- Deep Neural Network, Computer Security & Privacy, Cryptography, Differential Privacy, Learning Theory, Stochastic Optimization, ADMM

## EDUCATION

### Duke University

*Ph.D. in Computer Science (Advisor: Prof. Michael K. Reiter)*

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*

Xiamen, Fujian, China

Sept. 2011 - Jul. 2015

## RESEARCH EXPERIENCE

### Research Intern

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

Oct. 2020 - Feb. 2021

**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

## PUBLICATIONS AND MANUSCRIPTS

- **Zonghao Huang**, Lujo Bauer, Michael K. Reiter, “The Impact of Exposed Passwords on Honeyword Efficacy”, *Manuscript*, 2023.
- **Before Ph.D.:**
  - **Zonghao Huang**, Yanmin Gong, “Differentially Private ADMM for Convex Distributed Learning: Improve Accuracy with Multi-Step Approximation”, *Manuscript*, 2020.
  - **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* 15:1002–1012, January 2020.
  - **Zonghao Huang**, Miao Pan, Yanmin Gong, “Robust Truth Discovery Against Data Poisoning in Mobile Crowdsensing”, In *Proceedings of the IEEE Global Communications Conference*, December 2019.
  - **Zonghao Huang**, Yanmin Gong, “Differential Location Privacy for Crowdsourced Spectrum Sensing”, In *Proceedings of the 5<sup>th</sup> IEEE Conference on Communications and Network Security*, October 2017.

## AWARDS AND HONORS

- **Duke Graduate Fellowship**, Duke University, USA 2020
- **Student Travel Grant for IEEE CNS 2017**, National Science Foundation and Army Research Office, USA 2017
- **First-Class Scholarship of Academic Excellence**, Xiamen University, China 2015, 2013, 2012
- **Scholarship of Recreation and Sports Excellence**, Xiamen University, China 2015
- **Second-Class Scholarship of Academic Excellence**, Xiamen University, China 2014

## TEACHING EXPERIENCE

### COMPSCI 371 Elements of Machine Learning

*Teaching Assistant, Department of Computer Science, Duke University*

Fall 2022

### COMPSCI 520 Numerical Analysis

*Teaching Assistant, Department of Computer Science, Duke University*

Spring 2022

### ECEN 4024 Senior Design 2

*Teaching Assistant, School of Electrical and Computer Engineering, Oklahoma State University, Stillwater*

Fall 2019

## ACADEMIC ACTIVITIES

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- **Reviewer for Conference Manuscript Submissions :**
  - IEEE INFOCOM 2018, IEEE ICC 2018, IEEE CNS 2018.
- **External Reviewer for Conference Manuscript Submissions :**
  - ESORICS 2021.
- **Journal Reviewer:**
  - IEEE Transactions on Information Forensics and Security.

## PROGRAMING SKILLS AND LANGUAGES

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