

Zhiyong Fang

PERSONAL DETAILS

Address Room 246, Peterson Building, Texas A&M University
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EDUCATION

Ph.D. in Computer Science

CSCE department, Texas A&M University

Sep. 2019-now

B.Eng in Computer Science

ACM Honors Class, (top 1% in) Shanghai Jiao Tong University

Overall GPA 92.4/100

Sep. 2015-Jun. 2019

RESEARCH INTEREST

- Applied Cryptography & Zero Knowledge Proof & Deep Learning.

RESEARCH EXPERIENCE

Research Assistant

Texas A&M University, Advisor: Prof. Yupeng Zhang

- Applied Cryptography. Zero-knowledge Proof.

Sep. 2019-now

Research Assistant

Sailing Lab, Carnegie Mellon University, Advisor: Prof. Eric Xing

- Computer Vision. Image Generation.

July 2018-Dec. 2018

Research Assistant

APEX Lab, Shanghai Jiao Tong University, Advisor: Prof. Weinan Zhang

- Reinforcement Learning; Game AI; A Kiting Strategy.

July 2017-May 2019

WORK EXPERIENCE

Software Engineer

OasisLabs Inc. Mentor: Vishwanath Raman

- A privacy-preserving system to detect AI bias with homomorphic encryption and zero-knowledge proof.

May 2021 - Aug. 2021

Research Intern

ByteDance Inc. Mentor: Yitan Li& Lei Li

- AI assistant for annotation.

Jan. 2019 - June 2019

PUBLICATION

- Zhiyong Fang, David Darais, Joseph P. Near, Yupeng Zhang. Zero Knowledge Static Program Analysis. ACM CCS 2021.
- Rishabh Bhaduria, Zhiyong Fang, Carmit Hazay, Muthuramakrishnan Venkitasubramaniam, Tiancheng Xie, Yupeng Zhang, Ligero++: A New Optimized Sublinear IOP, ACM CCS 2020.
- Jiaheng Zhang, Zhiyong Fang, Yupeng Zhang, Zero Knowledge Proofs for Decision Tree Predictions and Accuracy, ACM CCS 2020.

PROJECTS

- *MxCompiler*: A compiler from a C-style language to assembly, optimization includes register allocation and function inline.
- *AlphaConnect*: An AI player for *Connect Game*, techniques include Deep Reinforcement Learning , Self Play and Monte Corla Tree Search.

AWARDS

- **Fall 2017** Academic Excellence Scholarship. (Top 1% at Shanghai Jiao Tong University)
- **Fall 2017** Zhiyuan College Honored Scholarship. (Top 1% at Shanghai Jiao Tong University)
- **Fall 2016** Academic Excellence Scholarship. (Top 1% at Shanghai Jiao Tong University)
- **Fall 2016** Zhiyuan College Honored Scholarship. (Top 1% at Shanghai Jiao Tong University)

ACADEMIC SERVICE

- Reviewer for Inscrypt 2021. (Sub reviewed by my advisor.)

TEACHING

- **Spring 2020** Teaching Assistant for *CSCE 465, Computer and Network Security*, Texas A&M University.
- **Fall 2017** Teaching Assistant for *Operating System*, Shanghai Jiao Tong University.
- **Fall 2016** Teaching Assistant for *Computer Programming and Design*, Shanghai Jiao Tong University.

SKILLS

*Language &
Tools*

- Proficient in Python, C++; Familiar with Java, Rust, PyTorch, Tensorflow.