Kaixin Yang

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Education

Viterbi School of Electrical and Computer Engineering, University of Southern California

Los Angeles, CA 90007, U.S.

Sept.2019 - Present

Ph.D. in Computer Engineering

School of Electronics Engineering and Computer Science, Peking University

Beijing, China

Sept.2015 – Jul.2019

B.S. in Electronic and Information Science and Technology

Anging No.1 Middle School, Anging, Anhui, China

Sept.2012 - Jul.2015

High School

Anging Foreign Language School, Anging, Anhui, China

Sept.2009 – Jul.2012

Middle School

Research Experience

Research on Hadware Security and Sequential Logic Encryption

Aug.2019 - Present

Advisor: Prof. Nuzzo

Affiliation: Cyber-Physical System Design Group

• Systematically summarized the assumptions and metrics of current sequential logic attack methods.

Research on Satellite Communication System and Network

Oct.2017 – Jun.2019

Advisor: Prof. Na Yi

Affiliation: Institute of Advanced Communications

- Did a literature review for distributed relational databases, learned the principles and advantages of developing them systematically, and examined the feasibility of highly-reliable distributed relational databases by using Tencent's PhxSQL as an experimental example.
- Helped design a distributed storage scheme for the satellite communication system and simulate satellite communication channel.
- Exploring the way to implement applications on the GPU platform with OpenCL.

Publication

Y. Hu, K. Yang, S. Nazarian, P. Nuzzo. SANSCrypt: A Sporadic-Authentication-Based Sequential Logic Encryption Scheme. *Submitted*.

Contest

Intel Cup Undergraduate Electronic Design Contest

Apr.2017 - Jul.2018

Third Prize

- Designed *Lost and Found Cabinet with Personal Information Protection* based on Intel embedded platform called *UP*² *Board*, which aimed at facilitating retrieving the lost property.
- Established the database of the system and implemented the Web server based on Flask framework.

Honor and Award

2019	Annenberg Fellowship
2018	Excellent Presentation in The Sixth Peking University Young Scientists Symposium on Informatics
2018	Third Prize in 2018 Intel Cup Undergraduate Electronic Design Contest
2017	Award for Academic Excellence of Peking University in academic year
2017	Level 3 in National Computer Rank Examination
2016	First Prize in College Physics Contest awarded by Beijing Physics Society in year 2016

Campus Experience

Piano Association of Peking University

Mar.2017 – Jun.2019

Member of Publicity Department Designed posters and edited essays.

Student Affairs Office, EECS, Peking University

Mar.2016 - Jul.2018

Student Assistant Dealt with daily affairs of EECS undergraduate students.

Skill

Programming Language: C++, C, Python, MASM, C51, OpenCL C, SQL, Verilog

Software & platform: MATLAB, Cadence, LaTeX, TensorFlow, Linux

Language: Chinese(Native), English(Proficient)

Standard English Test: TOEFL 102 (R27, S27, L20, W28); GRE 323 (V153, Q170, W3.5)

Miscellaneous

Hobby: Photograph, Photoshop, piano, soccer, basketball

Blog: https://sceneryinmirror.github.io