

YI JIANG

yj389 at cornell.edu ◊ <http://yijiang.site>

EDUCATION

Cornell University

Ph.D. in Computer Science

Aug 2018 - Jun 2023 (expected)

Shanghai Jiao Tong University

B.S. in Computer Science & Engineering

Member of English-Teaching Honor Class (All specialized classes taught in English)

Member of Zhiyuan Honors Program of Engineering

Sept 2014 - Jun 2018

Cornell University

Visiting Student, Department of Computer Science

Passed courses including Distributed Consensus and Programming Language and Logics

Conducted a state reconciliation project under the guidance of Prof. Robbert van Renesse

Jun 2017 - July 2017

University of Washington

International Exchange Student, Department of Electrical Engineering

Passed courses including Fundamental Circuits and C and Micro-Processors and related lab sessions.

Jul 2015 - Aug 2015

RESEARCH EXPERIENCE

Secure Recording on Smartphones

Advisor: Prof. Hongzi Zhu, Department of Computer Science, SEIEE, Shanghai Jiao Tong University

Jun 2017 - Present

- Developed a secure method of recording voicemails free from eavesdropping by other devices

Smartphone User Identification using Bio-features

Advisor: Prof. Hongzi Zhu, Department of Computer Science, SEIEE, Shanghai Jiao Tong University

Oct 2016 - Feb 2017

- Investigated a new way of smartphone user identification using individuals' tremor features
- Implemented both a tremor data collection system on Cortex-M4 experiment board and an Android-based identification system

SELECT PROJECTS

Android-based Application of Gossip Protocol

Advisor: Prof. Robbert van Renesse,

Department of Computer Science, Cornell University

Jun 2017 - Jul 2017

- Learned into different protocols for state reconciliation
- Implemented one Android-based version of Gossip Protocol to synchronize information between different mobile devices and PCs

DSP System on Embedded System

Project Workshop of Embedded System

May 2016 - Jun 2016

- Designed a whole DSP system based on Cortex-M4 experiment board
- Implemented an upper monitor using C# to control the Cortex-M4 experiment board and display the signals in real-time

INTERNSHIP

Microsoft Research Asia, Beijing

Research Intern

Aug 2017 - Present

- Conducted research on the I3M/Pathguide indoor navigation project
- Implemented an indoor map infrastructure construction system

Cisco China Research and Development Center, Shanghai

Dec 2016 - Jun 2017

Automation Intern

- Ported, ran automatic test scripts on CMTS of Docsis 3.1 and fixed bugs in the original Tcl automation scripts
- Designed a mechanism for analyzing logs using deep learning technologies with TensorFlow

HONORS AND AWARDS

- Honorable Mention in the Interdisciplinary Contest in Modeling (ICM) *Feb 2017*
- Second Prize in China Undergraduate Mathematical Contest in Modeling (Shanghai Contest District) *Dec 2016*
- Zhiyuan Scholarship of Honor (Exclusively for members of Zhiyuan Honors Program) *Dec 2016*
- Academic Excellence Scholarship of Shanghai Jiao Tong University *Dec 2016*
- Outstanding Volunteer of Shanghai Chongming Dongtan National Nature Reserve *Jan 2016*
- Zhiyuan Scholarship of Honor (Exclusively for members of Zhiyuan Honors Program) *Dec 2015*
- Academic Excellence Scholarship of Shanghai Jiao Tong University *Dec 2015*
- Merit Student in 2014-2015 Academic Year *Nov 2015*
- Advanced-Level English Interpretation Accreditation Examination Passed *Nov 2014*

EXTRACURRICULAR ACTIVITIES

- Deputy Secretary of the Organization Department of Communist Youth League of SEIEE
- Volunteer of Shanghai Chongming Dongtan National Nature Reserve
- Participated in Sila Connection Shanghai 2016

SKILLS

- **Programming** Python, Java, C/C++, MATLAB
- **Language** Bilingual proficiency in English and Mandarin.
Got 110 in IBT(TOEFL) Test and passed the Advanced-Level English Interpretation Test