Suwen Zhu

New Computer Science Rm 140 Stony Brook University Stony Brook, NY 11794 https://www.cs.stonybrook.edu/~suwzhu

EDUCATION

PhD Candidate

2013/8 - Now

• Computer Science, Stony Brook University Advisor: Assistant Professor Xiaojun Bi

Bachelor of Engineering

2009/9 - 2013/7

Computer Science and Technology
Central University of Finance and Economics, Beijing, China

EXPERIENCE

Research Assistant

2016/8 - Now

Stony Brook University Advisor: Prof. Xiaojun Bi

• Conducted research on human-computer interaction (HCI), including improving text entry system performance and designing novel interaction techniques for smartphones, wearable and VR/AR devices.

Software Engineer Intern in Research

2016/5 - 2016/9

Google

Supervisor: Dr. Xiaojun Bi, Dr. Shumin Zhai

- Conducted empirical studies to understand users' touch typing behaviors
- Evaluated usability and learnability of invisible touchscreen keyboard

Research Assistant

2014 - 2015

Stony Brook University Advisor: Prof. Long Lu

• Enabled module-level security enforcement for Android applications

Undergraduate Research Assistant

2010 - 2011

Central University of Finance and Economics, Beijing, China

Advisor: Prof. Yanmei Chai

• Digital watermarking principles and techniques

PUBLICATION

[10] i'sFree: Eyes-Free Gesture Typing via a Touch-Enabled Remote Control Suwen Zhu, Jingjie Zheng, Shumin Zhai, Xiaojun Bi CHI 2019

[9] Optimal-T9: An Optimized T9-like Keyboard for Small Touchscreen Devices Ryan Qin¹, Suwen Zhu, Yu-Hao Lin, Yu-Jung Ko, Xiaojun Bi ISS 2018

Honorable Mention Award

[8] Ultra-Low-Power Mode for Screenless Mobile Interaction Jian Xu, Suwen Zhu, Aruna Balasubramanian, Xiaojun Bi, Roy Shilkrot UIST 2018

¹Ryan Qin is a high-school student supervised by Suwen Zhu.

[7] Why Is Gesture Typing Promising for Older Adults?: Comparing Gesture and Tap Typing Behavior of Older with Young Adults

Yu-Hao Lin, Suwen Zhu, Yu-Jung Ko, Wenzhe Cui, Xiaojun Bi ASSETS 2018

[6] Computational Layout Design for Keyboards with Multi-Letter Keys Ryan Qin, Suwen Zhu, Yu-Hao Lin, Yu-Jung Ko, Xiaojun Bi MobileHCI 2018 Workshop on Socio-Technical Aspects of Text Entry

[5] Towards virtual reality infinite walking: dynamic saccadic redirection

Qi Sun, Anjul Patney, Li-Yi Wei, Omer Shapira, Jingwan Lu, Paul Asente, Suwen Zhu, Morgan Mcguire, David Luebke, Arie Kaufman SIGGRAPH 2018

[4] Typing on an Invisible Keyboard

Suwen Zhu, Tianyao Luo, Xiaojun Bi, Shumin Zhai CHI 2018

CHI 2018 Technical Papers Teaser

[3] CASE: Comprehensive Application Security Enforcement on COTS Mobile **Devices**

Suwen Zhu, Long Lu, Kapil Singh MobiSys 2016

[2] The Survey on Applications of Information Hiding Technology in E-Commerce Security

Yanmei Chai, Suwen Zhu, Wenying Han Applied Mechanics and Materials 2013

[1] An Improved Self-Adaptive Digital Watermarking Algorithm for RGB Images Based on W-SVD

Suwen Zhu, Bingxin Liu, Yanmei Chai

IEEE Proceedings of International Conference on Management of e-Commerce and e-Government 2012

TEACHING/ **MENTORING**

Guest Lecturer

Stony Brook University

CSE 591: Advanced Topics in Mobile Human Computer Interaction

Fall 2018

Mentor

Stony Brook University

Computer Science and Informatics Summer Research Experience Program

Advisee:

Ryan Qin, Ward Melville High School 2017/7 - 2018/12 Jennifer Luo, Great Neck South High School 2018/7 - Now

Teaching Assistant

Stony Brook University

CSE 594: Advanced Topics in Human Computer Interaction	Spring 2018
CSE 509: Computer System Security	Fall 2016
CSE 508: Network Security	Spring 2016
CSE 532: Theory of Database Systems	Spring 2014
CSE 110: Introduction to Computer Science	Fall 2013

AWARDS Stony Brook Computer Science Fellowship

Stony Brook University

Honor Graduate of Beijing 2013

Academic Excellence Award

2012

2013-2014

Central University of Finance and Economics, Beijing

Dean's Honor Scholarship

2010, 2012, 2013

School of Information, Central University of Finance and Economics, Beijing

PRESS Towards Virtual Reality Infinite Walking

SIGGRAPH blog, BBC Click, EurekAlert, IEEE, NVIDIA News, Road to VR, Hackaday, VRFocus, VR World, Inverse, ScienceDaily, ScienceBriefss, Digital Trends, Boing Boing, New Atlas, Bit-Tech, VRrOOm, Two Minute Papers, Sohu.com, etc.

Comprehensive Application Security Enforcement on COTS Mobile Devices Stony Brook Happenings