Zhuolin Yang

Contact Information

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Education

University of Chicago (UChicago)

Ph.D., Computer Science, 2019 - Present
Advisors: Prof. Ben Y. Zhao and Prof. Heather Zheng

University at Buffalo, The State University of New York (UB)

B.S., Computer Science (with Mathematics Minor), 2018
Advisor: Prof. Wenyao Xu

Selected Publication

- **Z. Yang**, C. Li, A. Bhalla, B. Zhao, H. Zheng, "*Inception Attacks: Immersive Hijacking in Virtual Reality*", arXiv, https://arxiv.org/abs/2403.05721, March 2024 [Featured by *MIT Technology Review*]
- **Z. Yang**, Z. Sarwar, I. Hwang, R. Bhaskar, B. Zhao, H. Zheng, "*Can Virtual Reality Protect Users from Keystroke Inference Attacks?*", Proceedings of USENIX Security Symposium (USENIX), Philadelphia, US, August 2024 [Featured by *New Scientist*]
- **Z. Yang***, Y. Chen*, Z. Sarwar, H. Schwartz, B. Zhao, H. Zheng, "*Towards a General Video-based Keystroke Inference Attack*", Proceedings of USENIX Security Symposium (USENIX), Anaheim, US, August 2023 (* denotes equal contribution)
- Y. Chen, **Z. Yang**, R. Abbou, P. Lopes, B. Zhao, H. Zheng, "*User Authentication via Electrical Muscle Stimulation*", Proceedings of ACM CHI Conference on Human Factors in Computing Systems (CHI), Yokohama, Japan, April 2021
- Z. Li, B. Chen, **Z. Yang**, H. Li, C. Xu, X. Chen, K. Wang and W. Xu, "*FerroTag: A Paper-based mmWave-Scannable Tagging Infrastructure* ", ACM Conference on Embedded Networked Sensor Systems (SenSys), New York, US, Nov. 2019 [Best paper award]
- Z. Li, **Z. Yang**, C. Song, C. Li, Z. Peng, W. Xu, "*E-Eye: Hidden Electronics Recognition through mmWave Nonlinear Effects*", ACM Conference on Embedded Networked Sensor Systems (SenSys), Shenzhen, China, Nov. 2018 [Best paper runner-up award]
- **Z. Yang**, C. Song, F. Lin, J. Langan, W. Xu, "*A Smart Environment-Adapting Timed-Up-and-Go System Powered by Sensor-Embedded Insoles*", IEEE Internet of Things Journal (IOTJ), June 2018 [Impact Factor: 10.238]

Honor

- Best Paper Award, ACM SenSys, 2019 [1 out of 144 submissions]
- Elaine K. Bernstein Women in Science Award, Physical Sciences Division, UChicago, 2019
- McCormick Fellowship, Department of Computer Science, UChicago, 2019
- Finalist Award (Project: mRehab), New York State Department of Health Aging Innovation Competition, 2018 [5 out of 74 competitors]
- Best Paper Runner-Up Award, ACM SenSys, 2018 [5 out of 147 submissions]
- UB Cambridge Undergraduate Scholar, 2018
- ACM Richard Tapia Celebration of Diversity in Computing Scholarship, 2018
- UB CSE Departmental Research Award, 2018 [2 out of 1191 graduates]

- Second Place Award, Aging Innovation Challenge in UB Blackstone LaunchPad, 2018
- Grace Hopper Celebration Scholar, 2017 [657 out of 18,000+ attendees]
- Third Place Award, Mathematics Contest of Guangdong, 2010 [Provincial level award]

Teaching Experience

- CS23400: *Mobile Computing*, Fall 2021
- CSE113: *Introduction to Computer Programming*, Fall 2017 [150+ freshman students]

Research Experience

- Research Assistant, SANDLab, University of Chicago, Summer 2019 - Present
- Research Assistant, Embedded Sensing and Computing Group, University at Buffalo, The State University of New York, 2016 - Spring 2019
- Visiting Student, NetOS Group, University of Cambridge, Summer 2018

Activity

- Invited talk, Columbia CS Security Seminar, Apr. 2024
- Invited talk, Stanford Security Lunch Speaking, Oct. 2022
- Volunteer and demo presenter, Women in Science and Engineering Accepted Students Day, SUNY Buffalo, Mar. 2018
- Participant, Video "*Through Her Eyes: Pathways*" by Melinda Gates for Computer Science Education Week, Dec. 2017
- Volunteer, ACM/IEEE International Conference on Connected Health: Applications, Systems and Engineering Technologies, Philadelphia, US, July. 2017
- Volunteer, Spring Shoreline Sweep 2017, Buffalo Niagara RIVERKEEPER, Apr. 2017
- Volunteer, UB Computer Science Education Week, Dec. 2016
- Participant, UB Hacking, Nov. 2016
- Intern (Web Developer), UB Career Service Office, Spring 2016