

Si Chen

4285 Chestnut Ridge Road, Apt 1-D
Amherst, NY 14228

☎ (716)335-8052
✉ schen23@buffalo.edu

Education

- * **University at Buffalo - SUNY** Buffalo, NY
Ph.D., Computer Science (GPA 3.8) Sep. 2012 - Feb. 2016
 - Research Assistance in Ubiquitous Security and Privacy Research Laboratory (UbiSeC Lab)
- * **University at Buffalo - SUNY** Buffalo, NY
M.S., Electrical Engineering (GPA 3.8) Sep. 2010 - May. 2012
 - Research Assistance in Wireless Networks and Embedded Systems Lab (WINES Lab)

Selected Publications

- * Si Chen, Muyuan Li, Kui Ren, Xinwen Fu, Chunming Qiao, “*Rise of the Indoor Crowd: Reconstruction of Building Interior View via Mobile Crowdsourcing*,” in **Proceedings of the 13th ACM Conference on Embedded Networked Sensor Systems (SenSys 2015)**, 2015.
- * Si Chen, Muyuan Li, Kui Ren, Chunming Qiao, “*CrowdMap: Accurate Reconstruction of Indoor Floor Plan from Crowdsourced Sensor-Rich Videos*,” in **Proceedings of the 35th IEEE International Conference on Distributed Computing Systems (ICDCS’15)**, 2015.
- * Muyuan Li, Haojin Zhu, Zhaoyu Gao, Si Chen, Le Yu, Shangqian Hu, Kui Ren, “*All your location are belong to us: Breaking mobile social networks for automated user location tracking*,” in **Proceedings of the 15th ACM international symposium on Mobile ad hoc networking and computing (Mobihoc’14)**, 2014.
- * Bingsheng Zhang, Qin Zhan, Si Chen, Muyuan Li, Kui Ren, Cong Wang, Di Ma, “*PriWhisper: Enabling Keyless Secure Acoustic Communication for Smartphones*,” in **IEEE Internet of Things Journal**, 2014.
- * E Koski, S Chen, S Pudlewski, T Melodia, “*Network simulation for advanced HF communications engineering*,” in **The 12th International Conference on Ionospheric Radio Systems and Techniques (IRST2012)**, 2012.

Research Projects

- * **IndoorCrowd** Buffalo, NY
Project Leader, Ubiquitous Security and Privacy Research Laboratory (UbiSeC Lab) Jun. 2013 - Present
 - Designed and Implemented a smartphone empowered cloud-based crowdsourcing system for large-scale indoor scene reconstruction.
- * **AcousAuth** Buffalo, NY
Project Leader, Ubiquitous Security and Privacy Research Laboratory (UbiSeC Lab) Jun. 2013 - Oct. 2013
 - Designed and Implemented a smartphone empowered personal authentication system exploiting keyless acoustic communication.
 - Winner of the 19th Annual International Conference on Mobile Computing and Networking (MobiCom’13) App Competition Finalists (top 10).

Work Experience

- * **Sina Weibo (China)** Beijing, China
Application Dev Engineer (Internship) Apr. 2010 - July. 2010
 - Used Python (Matplotlib), Javascript (jQuery) and PHP with MySQL to build an UNIX cluster administration system
 - Created an usage frequency indicator to show Weibo’s current usage frequency in different areas using Python, C, PHP with MySQL, Javascript

Skills

Programming Languages: Python, C, Javascript, Java, C++

Operating Systems: Linux (Gentoo), OS X, Windows,