

# Si Chen

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## 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,