Si Chen

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Education

* **University at Buffalo - SUNY** Buffalo, NY
  Ph.D., Computer Science (GPA 3.8) *Sep. 2012 - Present*
    - 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.

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,