Bing Zhou

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Education

- **Stony Brook University** — Stony Brook, NY
  Ph.D. in Electrical and Computer Engineering (Advisor: Dr. Fan Ye) — *August 2014 – Present*
- **University of Chinese Academy of Sciences** — Beijing, China
  M.E. in Electronic and Communication Engineering — *September 2011 – May 2014*
- **University of Science and Technology of China (USTC)** — Hefei, China
  B.S. in Applied Physics (School of the Gifted Young) — *September 2007 – May 2011*

Graduate Information

- **Data of addmission to ECE graduate program**: 08-25-2014
- **Date passed qualifying exam**: 04-15-2015

Research Area

- **Mobile Sensing and Computing**: target tracking, mobile user authentication, robotics, wearables, and human activity sensing.
- **Location Based Services**: automatic indoor map construction, indoor localization, navigation, and context aware services.

Selected Publications

[1] **Bing Zhou**, Mohammed Elbadry, Ruipeng Gao, and Fan Ye. Battracker: High precision infrastructure-free mobile device tracking in indoor environments. In *Proceedings of the 15th ACM Conference on Embedded Networked Sensor Systems (SenSys'17)*, 2017.

[2] **Bing Zhou**, Mohammed Elbadry, Ruipeng Gao, and Fan Ye. Demo: Acoustic sensing based indoor floor plan construction using smartphones. In *Proceedings of the 23rd Annual International Conference on Mobile Computing and Networkings (MobiCom'17, Demo)*, 2017.

[3] **Bing Zhou**, Mohammed Elbadry, Ruipeng Gao, and Fan Ye. Batmapper: Acoustic sensing based indoor floor plan construction using smartphones. In *Proceedings of the 15th Annual International Conference on Mobile Systems, Applications, and Services (MobiSys'17)*, pages 42–55. ACM, 2017.

[4] Ruipeng Gao*, **Bing Zhou***, Fan Ye, and Yizhou Wang. Knitter: Fast, resilient single-user indoor floor plan construction. In *IEEE Conference on Computer Communications (INFOCOM'17)*, pages 1–9. IEEE, 2017. **(Co-primary author)**.

[5] **Bing Zhou** and Fan Ye. Explore hidden information for indoor floor plan construction. In *IEEE International Conference on Communications (ICC'17)*, pages 1–6. IEEE, 2017.

Filed Patents

[1] Fan Ye and **Bing Zhou**. Two-factor user authentication using vision and acoustics for smart devices. In *US provisional patent application 62/578,724.*

[2] Fan Ye, **Bing Zhou**, and Yuanyuan Yang. High precision infrastructure-free mobile device tracking in indoor environments. In *US provisional patent application 62/578,641.*

[3] Fan Ye and **Bing Zhou**. Method for acoustic based accurate, low cost indoor map creation using mobile devices. In *US provisional patent application 62/518,649.*

Awards

- **Hackathon Finalist Award**: (Hackathon'17 @ CEWIT)
- **NSF Student Travel Grant Award**: (ACM MobiCom'17)
- **ACM SigMobile Travel Grant Award**: (ACM SenSys'17)