

# Sheng Shen

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## RESEARCH INTERESTS

My research interests lie primarily in the area of mobile computing and sensing. Currently, my research focuses on designing mobile systems with various sensors to analyze human mobility, simplify human-computer interaction and/or improve human health.

## EDUCATION

**University of Illinois at Urbana-Champaign** 2014 - Present  
Ph.D. Student, Electrical and Computer Engineering  
Advisor: Professor Romit Roy Choudhury

**University of Science and Technology of China** 2010 - 2014  
B.E., Electrical Engineering  
Special Class for the Gifted Young

## INDUSTRY EXPERIENCE

**Sequoia Applied Technology (Working with Intel)** 05/2016 – 08/2016  
*Research Intern, Working with Intel New Devices Group*  
Conducting research on human motion analysis with IMU sensors.

**Microsoft Research Asia** 07/2013 - 05/2014  
*Research Intern, Mobile and Sensing Systems Group*  
Conducting research on mobile indoor localization, mobile sensor sharing and mobile indoor 3D map building. Two demos at Microsoft Techfest 2014.

## PUBLICATIONS

Bringing IoT to Sports Analytics  
Mahanth Gowda, Ashutosh Dhekne\*, **Sheng Shen\***, Romit Roy Choudhury, Xue Yang, Lei Yang, Alex Essanian, Suresh Golwalkar  
**NSDI 2017** (\*Co-second author)

I am a Smartwatch and I can Track my User's Arm  
**Sheng Shen**, He Wang, Romit Roy Choudhury  
**ACM MobiSys 2016**

AutoLabel: Labeling Places from Pictures and Websites  
Rufeng Meng, **Sheng Shen**, Romit Roy Choudhury, Srihari Nelakuditi  
**ACM UbiComp 2016**

Matching Physical Sites with Web Sites for Semantic Localization  
Rufeng Meng, **Sheng Shen**, Romit Roy Choudhury, Srihari Nelakuditi  
**Workshop on Physical Analytics, ACM MobiSys 2015**

Dynamic Advance Reservation Multicast in Data Center Networks over Elastic Optical Infrastructure  
**Sheng Shen, Wei Lu, Xiahe Liu, Long Gong, Zuqing Zhu**  
**ECOC 2013**

## POSTERS/DEMOS/ABSTRACTS

**Extended Abstract:** Arm Posture Tracking Using a Smartwatch  
**Sheng Shen**  
ACM MobiSys 2016 PhD Forum

## TEACHING EXPERIENCE

TA, ECE598RR: Mobile Sensing and Sensor Fusion, UIUC

Spring 2017

## PROFESSIONAL ACTIVITIES

- Reviewer: IEEE Transactions on Mobile Computing  
IEEE GLOBECOM AHSN Symposium, 2017
- TPC Member: ACM MobiSys Ph.D. Forum, 2017  
ACM S3 Workshop, 2017

## AWARDS

UIUC ECE Rambus Fellowship	2017
ACM MobiSys'16 Student Travel Grant	2016
Coordinate Science Lab Video-of-the-Month Award	2016
Outstanding Student Scholarship, Univ. of Sci. and Tech. of China	2011, 12, 13, 14
Microsoft Research Asia Young Fellowship	2013

## PROGRAMMING SKILLS

C/C++, C#, Java, Android, Python, MATLAB, UNIX/Linux, VHDL

## RELEVANT COURSES

- **Mobile Computing and Wireless Networks**  
Smartphone Computing and Application  
Communication Networks  
Advanced Computer Networks  
Wireless Networks and Mobile Systems
- **Machine Learning and Signal Processing**  
Machine Learning  
Machine Learning for Signal Processing  
Digital Signal Processing II
- **Others**  
Introduction to Optimization  
Random Processes  
Computer Vision  
Computer Security I