

# Qiang Li

## Curriculum Vitae

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### Brief Bio

Since January 2015, I have been a Assistant Professor at Institute of Information Engineering of Chinese Academy of Science where I drive the mobile sensing agenda of the broader Internet of Things research activity. I received a Ph.D. from Dartmouth College under the supervision of Limin Sun.

My dissertation pioneered pattern recognition techniques for sensing group behavior that enable mobile systems to better cope with diverse user populations encountered in the real-world. More broadly, my research interests revolve around machine learning, mobile computing, and Internet of Things. At heart, I am an experimentalist who likes to build prototype systems based on well-founded computational models.

### Education

2012-Present **PhD Student in Computer Network**, Chinese Academy of Sciences.

My interests are smartphone sensing and machine learning

2009-2012 **Master's Level Computer Science Courses**, Chinese Academy of Sciences.

Coursework for professional development

2005–2009 **Bachelor's degree in Security Information**, Nankai University.

Graduated with High Honor

### Computer skills

Languages Matlab, Python

Platforms Android, Linux

Tools Weka, Eclipse, scikit-learn

### PhD Dissertation

**Crowd behavior Sensing based on Smartphones.**

○ Smartphone sensing:

(1)Queuing behavior detecting on smartphones; (2)MicroPrivacy on Smartphones

○ Smartphone communication:

(1)Context-Aware Handoff on Smartphones

○ Smartphone computing:

(1)Spatial Facility Prediction; (2)UserIntent: A new application on smartphones;

(3)Background Routines on Smartphones

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## Project

2013-2015 **National Natural Science Foundation.**

Research on Socialization Internet of Things: collecting and sensing users' mobility information

2011-2013 **State Key Development Program of Basic Research.**

Mobile computing on Internet of Things: smartphone sensing, communication and computing

2010-2011 **Multiple heterogeneous device collaboration on Internet of Things.**

design/implemented the control platform for smart home; design/implemented the seamless switching approach for heterogeneous networks

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## Journal

- **Qiang, Li**, Qi Han, Limin Sun. "Collaborative Recognition of Queuing Behavior on Mobile Phones", IEEE Transaction on Mobile Computing. **accepted**.
- Wei Liu, **Qiang, Li**, Yongle Chen, Yongping Xiong, Yubo Deng, Limin Sun. "Adaptive Heterogeneous Network Handoff of Smartphone Based on the Closed Control Loop". International Journal of Distributed Sensor Networks (IJDSN).
- **Qiang, Li**, et al. "A case study on REST-style architecture for cyber-physical systems: Restful smart gateway", Computer Science and Information Systems 8.4 (2011): 1317-1329.
- Qin, Weijun, **Qiang Li**, Limin Sun, Hongsong Zhu, and Yan Liu. "RestThing: A Restful Web Service Infrastructure for Mash-Up Physical and Web Resources", In Embedded and Ubiquitous Computing (EUC), 2011 IFIP 9th International Conference on, pp. 197-204. IEEE, 2011.
- Liu, Yang, **Qiang Li**, W Qin, L Sun, Y Liu. "GreenTech: A Case Study for Using the Web of Things in Household Energy Conservation", Ubiquitous Intelligence Computing and 9th International Conference on Autonomic Trusted Computing (UIC/ATC), 2012 9th International Conference on. IEEE, 2012.
- **Qiang Li**, W Qin, Y liu, B Han. "Testing and verification of sensor network middleware platform." Computer Research and Development (in Chinese) 48.z2 (2011).
- Yuyan Sun, Z liu, **Qiang Li**, Limin Sun. "Things kind of security architecture for 3G Network." Computer Research and Development (in Chinese) 47.z2 (2010): 67-69.

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## Conference

- **Qiang, Li**, Qi Han, Xiuzhen Cheng, Limin Sun. "QueueSense: Collaborative Recognition of Queuing on Mobile Phones", 2014 IEEE International Conference on Sensing, Communications and Networking (SECON), Singapore 2014, 30 June - 3 July.
- **Qiang, Li**, Qi Han, and Limin Sun. "Context-Aware Handoff on Smartphones", Mobile Ad-Hoc and Sensor Systems (MASS), 2013 IEEE 10th International Conference on. IEEE, 2013.

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## Demo and Poster

- **Qiang, Li**, Qi Han, Limin Sun. "UserIntent: Detection of User Intent for Triggering Smartphone Sensing Applications", 2014 IEEE International Conference on Sensing, Communications and Networking (SECON), Singapore 2014, 30 June - 3 July.

- Hui Wen, **Qiang,Li**, Qi Han, Shiming Ge, Limin Sun, “Poster: Crowdsourcing for Video Traffic Surveillance”, The 12th International Conference on Mobile Systems, Applications, and Services (MobiSys), 2014
- **Qiang,Li**, et al. “Smartphone Heterogeneous Network Handoff Based on the Closed Control Loop”,Proceedings of the 2012 IEEE/ACM Third International Conference on Cyber-Physical Systems. IEEE Computer Society, 2012.