

# Ming Li

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## Education

### Colorado School of Mines (Mines)

PH.D. IN COMPUTER SCIENCE | ADVISOR: DEJUN YANG

Golden, USA

Sep. 2015 - May. 2020 (Expected)

### Colorado School of Mines

M.S. IN COMPUTER SCIENCE

Golden, USA

Jan. 2014 - May. 2015

### Peking University (PKU)

B.S. IN GEOCHEMISTRY

Beijing, China

Sep. 2009 - Jul. 2013

## Research Interests

SECURITY AND PRIVACY IN MOBILE IOT SENSING, DIGITAL SIGNAL PROCESSING, MACHINE LEARNING, ALGORITHMIC GAME THEORY, INCENTIVE MECHANISM DESIGN, CROWDSOURCING.

## Publications

2018

**Ming Li**, Dejun Yang, Jian Lin, and Jian Tang. SpecWatch: A framework for adversarial spectrum monitoring with unknown statistics. *Computer Networks (COMNET)*, 143:176–190, 2018

Jian Lin, **Ming Li**, Dejun Yang, and Guoliang Xue. Sybil-proof online incentive mechanisms for crowdsensing. In *IEEE Conference on Computer Communications (INFOCOM)*, pages 2438–2446. IEEE, 2018

Jian Lin, Dejun Yang, **Ming Li**, Jia Xu, and Guoliang Xue. Frameworks for privacy-preserving mobile crowdsensing incentive mechanisms. *IEEE Transactions on Mobile Computing (TMC)*, 17(8):1851–1864, 2018

2017

Jian Lin, **Ming Li**, Dejun Yang, Guoliang Xue, and Jian Tang. Sybil-proof incentive mechanisms for crowdsensing. In *IEEE Conference on Computer Communications (INFOCOM)*. IEEE, 2017

Michael Brown, Colin Marshall, Dejun Yang, **Ming Li**, Jian Lin, and Guoliang Xue. Maximizing capacity in cognitive radio networks under physical interference model. *IEEE/ACM Transactions on Networking (TON)*, 25(5):3003–3015, 2017

**Ming Li**, Jian Lin, Dejun Yang, Guoliang Xue, and Jian Tang. QUAC: quality-aware contract-based incentive mechanisms for crowdsensing. In *2017 IEEE 14th International Conference on Mobile Ad Hoc and Sensor Systems (MASS)*, pages 72–80. IEEE, 2017

Yuhui Zhang, Dejun Yang, Jian Lin, **Ming Li**, Guoliang Xue, Jian Tang, and Lei Xie. Spectrum auctions under physical interference model. *IEEE Transactions on Cognitive Communications and Networking (TCCN)*, 3(4):719–728, 2017

2016

**Ming Li**, Dejun Yang, Jian Lin, and Jian Tang. SpecWatch: Adversarial spectrum usage monitoring in crns with unknown statistics. In *The 35th Annual IEEE International Conference on Computer Communications (INFOCOM)*. IEEE, 2016

Jian Lin, Dejun Yang, **Ming Li**, Jia Xu, and Guoliang Xue. BidGuard: A framework for privacy-preserving crowdsensing incentive mechanisms. In *2016 IEEE Conference on Communications and Network Security (CNS)*, pages 145–153. IEEE, 2016

## **Presentations**

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### **The 35th Annual IEEE International Conference on Computer Communications**

*San Francisco, USA*

PRESENTER FOR "SPECWATCH: A FRAMEWORK FOR ADVERSARIAL SPECTRUM MONITORING WITH UNKNOWN STATISTICS."

*Apr. 2016*

### **The 14th IEEE International Conference on Mobile Ad hoc and Sensor Systems (MASS)**

*Orlando, USA*

PRESENTER FOR "QUAC: QUALITY-AWARE CONTRACT-BASED INCENTIVE MECHANISMS FOR CROWDSENSING."

*Oct. 2017*

## **Teaching & Mentoring Experience**

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### **Course Instructor**

CSCI 358: Discrete Math (an Undergraduate-Level Course), Fall 2019, Mines, Golden, USA.

CSCI 561: Theory to Computation (a Graduate-Level Course), Fall 2016, Mines, Golden, USA.

### **Learning to Teach**

Project Catalyst: How to Engineer Engineering Education, July 2017, Bucknell University, Lewisburg, USA.

### **Student Mentoring**

Hayden Sather, Senior, Sep. 2018 - May 2019, The Analysis of Atmospheric Pressure  
to Determine the Location of the User of a Mobile Phone in a Vehicle.

## **Professional Services**

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IEEE Transactions on Wireless Communications (TWC)

### **Paper Reviewer**

IEEE Transactions on Vehicular Technology (TVT)

International Conference on Computer Communication and Networks (ICCCN)

## **Honors & Awards**

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2009-2013 **Scholarship to Excellent College Students**, Tsang Hin-Chi Education Foundation

*Beijing, China*

2009-2013 **Geology Scholarship**, School of Earth and Space Sciences, PKU

*Beijing, China*