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Ph.D. Candidate

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## RESEARCH INTERESTS

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Mobile Computing, Cyber Security and Privacy, Human-Machine Interactions.

## EDUCATIONAL BACKGROUND

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- Ph.D. in Computer Science and Technology, Shanghai Jiao Tong University, Shanghai, China, 2020 (expected). Supervised by Prof. *Jiadi Yu* and Prof. *Minglu Li*.
- B. E. in Computer Science and Technology, Xi'an Jiaotong University, Xi'an, China, 2015.

## RESEARCH EXPERIENCE

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- Visiting Research Student at Rutgers University, New Brunswick, NJ, USA, 2018-present. Supervised by Prof. *Yingying Chen*.
- Research Assistant at Shanghai Jiao Tong University, Shanghai, China, 2015-present.

## PUBLICATIONS

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### Conference Papers

1. **Li Lu**, Jiadi Yu, Yingying Chen, Yanmin Zhu, Minglu Li, Xiangyu Xu, "I<sup>3</sup>: Sensing Scrolling Human-Computer Interactions for Intelligent Interest Inference on Smartphones", in Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)/ACM Ubicomp 2019, London, England, Sep 2019, doi: 10.1145/3351255. (CCF-A Conference)
2. **Li Lu**, Jiadi Yu, Yingying Chen, Yanmin Zhu, Xiangyu Xu, Guangtao Xue, Minglu Li, "KeyListener: Inferring Keystrokes on QWERTY Keyboard of Touch Screen through Acoustic Signals", in Proceedings of IEEE International Conference on Computer Communications (IEEE INFOCOM 2019), Paris, France, Apr 2019, doi: 10.1109/INFOCOM.2019.8737591. (CCF-A Conference)
3. **Li Lu**, Jiadi Yu, Yingying Chen, Hongbo Liu, Yanmin Zhu, Yunfei Liu, Minglu Li, "LipPass: Lip Reading-based User Authentication on Smartphones Leveraging Acoustic Signals," in Proceedings of IEEE International Conference on Computer Communications (IEEE INFOCOM 2018), Honolulu, HI, USA, Apr 2018, doi: 10.1109/INFOCOM.2018.8486283. (CCF-A Conference)
4. Hao Kong and **Li Lu**<sup>1</sup>, Jiadi Yu, Yingying Chen, Yanmin Zhu, Linghe Kong, Minglu Li, "FingerPass: Finger Gesture-based Continuous User Authentication for Smart Homes Using Commodity WiFi", in Proceedings of ACM International Symposium on Mobile Ad Hoc Networking and Computing (ACM MobiHoc 2019), Catania, Italy, Jul 2019, doi: 10.1145/3323679.3326518. (CCF-B Conference)
5. **Li Lu**, Jian Liu, Jiadi Yu, Yingying Chen, Yanmin Zhu, Xiangyu Xu, Minglu Li. "VPad: Virtual Writing Tablet for Laptops Leveraging Acoustic Signals." In Proceedings of IEEE International Conference on Parallel and Distributed Systems (IEEE ICPADS 2018), Sentosa, Singapore, Dec 2018, doi: 10.1109/PADSW.2018.8644615. (CCF-C Conference)
6. **Li Lu**, Jiadi Yu, Yanmin Zhu, Shiyong Qian, Guangtao Xue, Minglu Li, "Cost-Efficient VM Configuration Algorithm in the Cloud using Mix Scaling Strategy," in Proceedings of IEEE

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<sup>1</sup> Hao Kong and **Li Lu** are the co-first authors of this paper.

International Conference of Communications (IEEE ICC 2017), Paris, France, May 2017, doi: 10.1109/ICC.2017.7997241. (CCF-C Conference)

7. Hua Xue, Jiadi Yu, Yanmin Zhu, **Li Lu**, Shiyu Qian, Minglu Li, "WiZoom: Accurate Multipath Profiling using Commodity WiFi Devices with Limited Bandwidth", in Proceedings of Annual IEEE International Conference on Sensing, Communication, and Networking (IEEE SECON 2019), Boston, MA, USA, Jun 2019. (CCF-B Conference)
8. Yanhua Cao, **Li Lu**, Jiadi Yu, Shiyu Qian, Yanmin Zhu, Minglu Li, "Online Cost-Aware Service Requests Scheduling in Hybrid Clouds for Cloud Bursting," in Proceedings of the 18th International Conference on Web Information Systems Engineering (WISE 2017), Moscow, Russia, Oct 2017, doi: 10.1007/978-3-319-68783-4\_18. (CCF-C Conference)

## Journal Papers

1. **Li Lu**, Jiadi Yu, Yingying Chen, Hongbo Liu, Yanmin Zhu, Minglu Li, "Lip Reading-Based User Authentication Through Acoustic Sensing on Smartphones", IEEE/ACM Transactions on Networking, vol. 27, no. 1, pp. 447-460, Feb 2019, doi: 10.1109/TNET.2019.2891733. (CCF-A Journal)
2. **Li Lu**, Jiadi Yu, Yanmin Zhu, Minglu Li "A Double Auction Mechanism to Bridge Users' Task Requirements and Providers' Resources in Two-Sided Cloud Markets," IEEE Transactions on Parallel and Distributed Systems (IEEE TPDS), 2018, doi: 10.1109/TPDS.2017.2781236. (CCF-A Journal)
3. Yanhua Cao, **Li Lu**, Jiadi Yu, Shiyu Qian, Yanmin Zhu, Minglu Li, "Online cost-rejection rate scheduling for resource requests in hybrid clouds", Parallel Computing, vol. 81, pp. 85-103, Jan 2019, doi: 10.1016/j.parco.2018.12.003. (CCF-B Journal)

## Posters

1. Yang Bai, Jian Liu, Yingying Chen, **Li Lu**, Jiadi Yu, "Poster: Inaudible High-throughput Communication Through Acoustic Signals", in Proceedings of the 25th Annual International Conference on Mobile Computing and Networking (ACM MobiCom), Los Cabos, Mexico, Oct 2019. (CCF-A Conference)

## AWARDS

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- National Scholarship for Doctoral Students (国家奖学金), Ministry of Education of the People's Republic of China, 2018.
  - Outstanding Graduate (优秀毕业生), Xi'an Jiaotong University, 2015.
  - Excellent Undergraduate Student (优秀学生), Xi'an Jiaotong University, 2012-2014
  - National Encouragement Scholarship (国家励志奖学金), Xi'an Jiaotong University, 2012, 2014
  - Lu Shidi 2nd Scholarship (陆诗娣二等奖学金), Xi'an Jiaotong University, 2013

## PATENTS

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- Guangtao Xue, **Li Lu**, Jiadi Yu, Shiyu Qian, 基于混合扩展方式的云端虚拟机的优化配置方法及其系统. 2019.
  - Jiadi Yu, **Li Lu**, 远距离用户触控屏上全键盘输入获取方法. ZL201810410015.3. 2019.
  - Jiadi Yu, **Li Lu**, 基于智能终端的声音装置进行唇读的用户认证方法及系统. ZL201710952236.9. 2018.
  - Jiadi Yu, **Li Lu**. 基于滑动式交互操作的推荐系统及方法. ZL201710315487.6. 2018.
  - Jiadi Yu, Guancheng Liang, **Li Lu**, Xiangyu Xu. 用于手部可穿戴设备的基于直拳动作检测的用户认证方法. ZL201710328296.3. 2018.