

# Yishi Lin

Ph.D. in Computer Science and Engineering

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## Education

- 2013–2017 **Ph.D., Computer Science and Engineering**, *The Chinese University of Hong Kong*.  
*Thesis*: Information Diffusion and Distance Query in Large-Scale Networks  
*Research interests*: information diffusion, influence maximization, complex networks, graph algorithms  
*Advisor*: Prof. John C.S. Lui
- 2009–2013 **B.E., Computer Science and Technology**, *University of Science and Technology of China*.  
GPA: 4.01/4.30, Rank: 1/106

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## Experience

- 2017–present **Researcher**, *Data Center, Weixin Group, Tencent*.  
Perform data exploration on user behaviour to discover product improvement opportunities  
Partner closely with the product team and provide data analysis results for decision making  
Build machine learning models to predict user behaviours
- 2015 **Research Intern**, *Theory Group, Microsoft Research Asia*.  
Research on boosting influence spread in social networks, mentored by Wei Chen
- 2013–2016 **Teaching Assistant**, *The Chinese University of Hong Kong*.  
Teaching assistant for undergraduate/postgraduate courses titled “Fundamental of Machine Learning”, “Introduction to Network Science”, “Engineering Mathematics III”, “Problem Solving By Programming”  
Designed and graded assignments, held weekly tutorials, laboratory sessions, and office hours

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## Publications

### Conference

- [1] **Yishi Lin**, Wei Chen, and John C.S. Lui. Boosting information spread: An algorithmic approach. In *Proceedings of the 2017 IEEE International Conference on Data Engineering (ICDE)*, 2017.
- [2] **Yishi Lin** and John C.S. Lui. Analyzing competitive influence maximization problems with partial information: An approximation algorithmic framework. *Performance Evaluation (also accepted in the IFIP W.G. 7.3. Performance Conference, 2015)*, 2015.
- [3] **Yishi Lin**, Xiaowei Chen, and John C.S. Lui. I/O efficient algorithms for exact distance queries on disk-resident dynamic graphs. In *Proceedings of the 2015 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)*, 2015.
- [4] Silei Xu, **Yishi Lin**, Hong Xie, and John C.S. Lui. A provable algorithmic approach to product selection problems for market entry and sustainability. In *Proceedings of the 26th International Conference on Scientific and Statistical Database Management (SSDBM)*. ACM, 2014.
- [5] **Yishi Lin**, John C.S. Lui, Kyomin Jung, and Sungsu Lim. Modeling multi-state diffusion process in complex networks: Theory and applications. In *Proceedings of the 2013 International Conference on Signal-Image Technology & Internet-Based Systems (SITIS)*, 2013.

### Journal

- [6] **Yishi Lin**, John C.S. Lui, Kyomin Jung, and Sungsu Lim. Modelling multi-state diffusion process in complex networks: theory and applications. *Journal of Complex Networks*, 2014.
- [7] **Yishi Lin**, Wei Chen, and John C.S. Lui. Boosting information spread: An algorithmic approach. *IEEE Transactions on Computational Social Systems*, 5(2):344–357, June 2018.

### Manuscript

- [8] Byeongjin Choe, **Yishi Lin**, Sungsu Lim, John C.S. Lui, and Kyomin Jung. Efficient approximation of opinion spreading in general social networks.

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## Honors & Awards

- Scholarships Nomination Award of the Microsoft Research Asia Fellowship, 2015  
Hong Kong PhD Fellowship, 2013–2017

Guo Moruo Scholarship of USTC, 2012  
Google China Anita Borg Scholarship, 2012  
National Scholarship of China, 2011  
ACM-ICPC Gold Medal, Google Cup ACM-ICPC China Shanghai Fudan Invitational Programming Contest, 2011  
Silver Medal, The ACM-ICPC Asia Regional Contest, Dalian Site, 2011  
Silver Medal, The ACM-ICPC Asia Regional Contest, Tianjin Site, 2010  
Bronze Medal, The ACM-ICPC Asia Regional Contest, Hangzhou Site, 2010  
Others Student Travel Grants for IFIP Performance 2015

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## Skills

Languages Use R, Python, Scala, SQL in daily work; use C/C++ in most research projects; familiar with Swift  
Others Native in Chinese, professional working proficiency in English