

Li Ye

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EDUCATION

- 2016.8 - PRESENT Ph.D, Computer Science, **The Chinese University of Hong Kong**
- I am supervised by John C.S. Lui. I have taken these graduate courses:
- Foundations of Optimization
- Approximation Algorithms
- Optimization Methods in High-dimensional Statistics
- Probabilistic Modeling and Inference (Graphical models in machine learning)
- Online Algorithm for Learning and Optimization (Online machine learning)
- Network Economics
- 2012.9 - 2016.6 B.E., Computer Science, **University of Science and Technology of China**
- GPA: 3.97 / 4.3 (graduated with the highest honor: Guo Moruo Scholarship)
- Rank: 2nd / 102 in Department of Computer Science and Technology
- 2014.2 - 2014.6 Exchange Student, Computer Science, **National Taiwan University**
- GPA: 4.27 / 4.3

RESEARCH AND JOB INTEREST

My interest lies in doing R&D in *Data Driven Decision*, which is the intersection of Data Science, Statistics and Economics. Specifically, I like to solve real-world decision problems in both computer systems and social-economic systems. This is related to Machine Learning, System Modeling, Data-driven Simulations and Optimizations.

PUBLICATIONS

- Li Ye, Hong Xie, Weijie Wu, John C.S. Lui, *Mining Customer Valuations to Optimize Product Bundling Strategy*. (IEEE ICDM, 2017, AR=9.25%) [[pdf](#)]
- Li Ye, Weijie Wu, Richard T.B. Ma, John C.S. Lui, *On the Profitability of Bundling Sale Strategy for Online Service Markets with Network Effects*. (ACM TOIT, 2019) [[pdf](#)]
- Li Ye, Hong Xie, John C.S. Lui, *Quantifying Deployability & Evolvability of Future Internet Architectures via Economic Models*. (IEEE ICNP, 2018, AR=17.8%) [[pdf](#)]
- Li Ye, Hong Xie, Yishi Lin, John C.S. Lui, *To Be or Not To Be: Analyzing & Modeling Social Recommendation in Online Social Networks*. (IEEE ICDM, 2019, AR=18.5%) [[pdf](#)]
- Li Ye, Hong Xie, John C.S. Lui, *Quantifying Deployability & Evolvability of Future Internet Architectures via Economic Models*. (ACM/IEEE ToN, 2020) [[pdf](#)]
- Li Ye, Hong Xie, Yishi Lin, John C.S. Lui, *Rewarding Social Recommendation in OSNs: Empirical Evidences, Modeling and Optimization*. (Accepted by IEEE TKDE) [[pdf](#)]
- Li Ye, Hong Xie, Yishi Lin, John C.S. Lui, *Unifying Offline Causal Inference and Online Bandit Learning for Data Driven Decision* (ACM The Web Conference, 2021) [[arXiv version](#)]

INTERNSHIP EXPERIENCES

- 2018.10 - 2019.2 WeChat data center at Tencent. Doing data analysis on the project “incentivized user-to-user recommendations in online social networks”.
- 2019.3 - 2019.11 WeChat data center at Tencent. Doing a project of using offline causal inference to help online A/B test, with both algorithm design and theoretical analysis
- 2019.12 - now WeChat data center at Tencent. Doing a project on a Bayesian way to validate/evaluate/select causal inference models (or other counterfactual models).

PROGRAMMING SKILLS

- EXPERIENCED IN: C/C++, Python
- FAMILAR WITH: SQL, CUDA, Go, Java, HTML/CSS/PHP, Matlab

PROGRAMMING PROJECTS

- 2015.3 - 2015.6 Embedding Caffe Deep Learning Framework for object recognition in robot
- 2015.1 Visualizing code execution with LLVM
- 2014.11 courseTable, a course table Android app allowing TAs to publish messages
- 2014.10 - 2015.1 Shopping guide robot for a shopping mall in Hefei
- 2014.10 - 2015.3 [olive](#), a GPU accelerated BFS engine
- 2014.7 - 2014.9 Building a service robot to grab objects with natural interface [\[demo video\]](#)

TEACHING EXPERIENCES

- 2017 Spring, 2018 Spring CSCI3320 Fundamentals of Machine Learning. (Best TA award)
- 2016 Fall, 2017 Fall, 2018 Fall CSCI2040 Introduction to Python. (Best TA award)

HONORS

- 2016-PRESENT Hong Kong PhD Fellowship
- 2016 Guo Moruo Scholarship (highest honor for undergraduate students in USTC, top 2%)
- 2015 China Computer Federation Outstanding Undergraduate Student (top 2%)
- 2014 National Scholarship (top 2%)
- 2013 National Scholarship (top 2%)