Li Ye

Address: Room 120, SHB, CUHK, Hong Kong
Email: liye666666@gmail.com

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
  - Probablistic 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%)