

# Yingru Li

PH.D. STUDENT

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## Education

### Chinese University of Hong Kong, Shenzhen

PH.D. IN COMPUTER AND INFORMATION ENGINEERING

- Advisers: Tom Zhi-Quan Luo, Tong Zhang

Shenzhen, China

2018 - present

### Huazhong University of Science and Technology

B.ENG. IN COMPUTER SCIENCE

- Outstanding Graduate in ACM Honors Class Program · Major GPA: 3.95/4.0

Wuhan, China

2013 - 2017

## Research and Industry Experience

### SenseTime Group Ltd.

COMPUTER VISION TRAINEE RESEARCHER

- Implemented the framework of distributed continual learning framework with pytorch.
- Replicated several approaches on continual learning within the framework.
- Investigated and designed new models of a novel problem: continual learning for multi-label classification (paper preparing for submission).
- Involved in the neural network compression project to provide light-weight DNN-module for mobile app.

Beijing, China

2018

### Department of Computer Science, Cornell University (with John Hopcroft)

INDEPENDENT RESEARCH ASSISTANT

- Researched on the causality of information and influence propagation based on our proposed multi-channel (hidden) influence model.
- Investigated the theoretical limitation of the multi-channel influence model, which leads to my undergrad thesis.

Ithaca, NY, US

2015, 2017

### Microsoft Research, Asia

RESEARCH INTERN

- Worked on models, algorithms and theory (specifically *submodular optimization*) related to influence propagation in social network.
- Finished the proof on the submodularity of mutual-competing cases in Com-IC model and the work was accomplished in a FAW2017 paper.
- Also initialized the research project on multi-channel influence learning problem.

Beijing, China

2016

### John Hopcroft Lab for Data Science, HUST

RESEARCH ASSISTANT

- Proposed a fundamentally new paradigm of hidden community structure in social networks.
- Hidden community detection uncovered the meaningful communities that traditional algorithm barely finds and captured the causality behind the multi-faceted preferences among the relationships of human society. The above works result in a Info. Sci. journal paper.
- Researched on randomization techniques to reduce the computation complexity for classical density based clustering methods.
- Performed as group study organizer and also advised freshers in the lab.

Wuhan, China

2015 - 2017

## Honors & Awards

2015 **Highest Honor**, Outstanding Achievements in terms of Academic Performance (Top 1%)

HUST

2016 **Qiming Star Award**, Selected 5 winners among all undergrads over the university

HUST

2014 **First Prize**, SDN Application and Development Contest

IIU and M. Edu.

2015 **First Prize**, Parallel Application Contest

Intel and CCF

2016 **Honorable Mention**, MCM/ICM Contest

MAA INFORMS SIAM

## Publications

[1] Kun He, Yingru Li, Sucheta Soundarajan, and John E. Hopcroft. Hidden community detection in social networks. *Inf. Sci.*, 425(C):92–106, January 2018.

[2] Yingru Li. Learning multi-channel influence in social network. *Undergrad Thesis*, June 2017.