Yingru **Li**

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"Be the change that you want to see in the world."

Education

Chinese University of Hong Kong — *Shenzhen, China*

Ph.D. in Computer and Information Engineering — *2018 - present*

- Advisers: Tom Z.Q. Luo, Tong Zhang

Huazhong University of Science and Technology — *Wuhan, China*

M.S. in Computer Software and Theory — *2017 - present*

- GPA: 4.0/4.0

Huazhong University of Science and Technology — *Wuhan, China*

B.Eng. in Computer Science — *2013 - 2017*

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

Research and Industry Experience

SenseTime Group Ltd. — *Beijing, China*

Research Intern — *2018*

- Implemented the framework of distributed continual learning 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).

Department of Computer Science, Cornell University (with John Hopcroft) — *Ithaca, NY, US*

Independent Research Assistant — *2015, 2017*

- 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.

Microsoft Research, Asia — *Beijing, China*

Research Intern — *2016*

- 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.

John Hopcroft Lab for Data Science, HUST — *Wuhan, China*

Research Assistant — *2015 - 2017*

- 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.

Honors & Awards

2015	**Highest Honor**, Outstanding Achievements in terms of Academic Performance (Top 1%)	*HUST*
2016	**Qiming Star Award**, Selected 5 winners among the university (5/40000)	*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.