

# RESUME

## MAKE A DENT IN THE UNIVERSE

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## LI XIAODONG

2016 – 2020 **PhD** in Department of Computer Science, the University of Hong Kong (HKU), supervised by Prof. Reynold Cheng.

2012 – 2016 **BEng** and **Honor Degree** (China Top-Notch Undergraduate Training Program) in Taishan College<sup>1</sup>, Shandong University (SDU).

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### Publications

1. **Xiaodong Li**, Reynold Cheng, Kevin Chang, Caihua Shan, Chenhao Ma, Hongtai Cao. On Analyzing Graphs with Motif-Paths. PVLDB 2021 (CCF A).
2. **Xiaodong Li\***, Vincent Yan\*, Xuxiao Ye\*, Min Ou, Ruibang Luo, Qingpeng Zhang, Bo Tang, Benjamin Cowling, Ivan Hung, Chung Wah Siu, Ian Wong, Reynold Cheng, Esther Chan. Drug Repurposing for the Treatment of COVID-19: A Knowledge Graph Approach. Advanced Therapeutics, 2021 (\* equal contribution).
3. **Xiaodong Li**, Reynold Cheng, Matin Najafi, Kevin Chang, Hongtai Cao. M-Cypher: A GraphQL Framework Supporting Motifs. CIKM 2020 (CCF B).
4. **Xiaodong Li**. DURS: A Distributed Method for k-Nearest Neighbor Search on Uncertain Graphs. IEEE MDM 2019 (CCF C).
5. **Xiaodong Li**, Reynold Cheng, Yixiang Fang, Jiafeng Hu, Silviu Maniu. Scalable Evaluation of k-NN Queries on Large Uncertain Graphs. EDBT 2018 (CCF B).
6. **Xiaodong Li**, Yuqing Sun. Privacy Protection for Collaborative Tagging Quality and User Personalization. Proceedings of SDU Excellent Graduation Thesis 2016.
7. Xiaolin Han, Tobias Grubenmann, Reynold Cheng, Sze Chun Wong, **Xiaodong Li**, Wenya Sun. Traffic Incident Detection: A Trajectory-based Approach. IEEE ICDE 2020 (CCF A).
8. Chenhao Ma, Reynold Cheng, Laks Lakshmanan, Tobias Grubenmann, Yixiang Fang, **Xiaodong Li**. LINC: A Motif Counting Algorithm for Uncertain Graphs. PVLDB 2020 (CCF A).
9. Yixiang Fang, Zheng Wang, Reynold Cheng, **Xiaodong Li**, Siqiang Luo, Jiafeng Hu, Xiaojun Chen. On Spatial-Aware Community Search. TKDE 2018 (CCF A).
10. Yixiang Fang, Reynold Cheng, **Xiaodong Li**, Siqiang Luo, Jiafeng Hu. Effective Community Search over Large Spatial Graphs. PVLDB 2017 (CCF A).

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### Employment/Services

From August 2016 to NOW

1. **Reviewer** of IPM, PR, KBS, IEEE Big Data, ESWA, ACI, ARRAY JNLEST and IJF.
2. **Sub-reviewer** of *SIGKDD*, *SIGMOD*, *VLDB*, *ICDE*, *TKDE*, *VLDBJ*, *IJCAI*, CIKM, DASFAA, SDM, TKDD, IS, KAIS, APWeb, WAIM, SSTD, ER, CODS-COMAD and SUM.

From May 2021 to NOW

**Research Fellow** in School of Computing, National University of Singapore, supervised by Prof. Xiaokui Xiao.

From March 2021 to May 2021

1. **Postdoctoral Research Fellow** in Department of Computer Science, HKU, supervised by Prof. Reynold Cheng;
2. Teaching Assistant of **COMP7801** (Advanced Topics in Computer Science by Prof. Reynold Cheng, 2020-21).

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<sup>1</sup> Taishan College is an elite class launched by Ministry of Education of China. Only top 3% of SDU students can enter this class. Advanced subjects and more difficult exams are used in Taishan College.

From January 2021 to March 2021

**Research Intern** in Newsbreak Beijing, in political polarization study for news recommendation.

From May 2018 to September 2018

**Research Intern** in Department of Computing of Imperial College London, supervised by Dr. Thomas Heinis, in *Distributed Data Processing for Large-scale Moving Objects*.

From September 2017 to April 2018

1. Teaching Assistant of **COMP7103** (Data Mining by Dr. Mauro Sozio, 2016-17), **COMP3323** (Advanced Database Systems by Prof. Reynold Cheng, 2017-18)
2. Member of HKU Study Tour of *Shenzhen, Guangzhou, Harbin, Chongqing*.

From July 2017 to August 2017

Full-time **Student Research Assistant** in Department of CST of Tsinghua University, supervised by Prof. Li Guoliang, in project *Real-time Traffic Monitoring and Inference*.

From September 2016 to August 2017

1. **Research Postgraduate Student Representative** of HKU Department of CS;
2. Volunteer of Western HK Police Ethnic Group and Mooncake-Delivering Project;
3. Member of HKU Shun Hing College Swimming Team.

From September 2012 to June 2016 (Undergraduate Period)

1. Coordinator of the computer science class in SDU Taishan College;
2. New Media Technician, SDU student association;
3. Volunteer of Environmental Protection, China Soong Ching Ling Foundation;
4. Manager of CS website construction, SDU Taishan College;
5. (JUL2015-AUG2015) **Research Intern** in Department of CS of HKU, supervised by Dr. Reynold Cheng, in project Graph Mining in Free-rider Community Search;
6. (JUL2014-AUG2014) **Exchange student** in the System Software Laboratory of NTHU, supervised by Prof. Yeh-Ching Chung, in project *Software-based GPU Virtualization*;
7. (MAR2013) Regional Economic&Cultural Workshop, University of Manchester.

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## **Awards/Honors/Scholarships**

From August 2016 to NOW (Postgraduate Period)

1. Student Travel Grant Award, from CIKM 2020;
2. Recipient of **University Postgraduate Fellowships**, from HKU;
3. Recipient of **HKU Postgraduate Scholarships**, from HKU;
4. Certificate of Reviewing Award, from Elsevier IPM 2019;
5. Student Travel Grant Award, from IEEE MDM 2019;
6. Recipient of **Jessie Ho Memorial Postgraduate Fellowship**, from HKU;
7. Recipient of **Y S and Christabel Lung Postgraduate Scholarship**, from HKU;
8. Certificate of Trans-disciplinary Challenge Award, from HKU;
9. Certificate of Teaching and Learning in Higher Education, from HKU.

From September 2012 to June 2016 (Undergraduate Period)

1. SDU **Excellent Graduation Thesis** 2016 (*Privacy Protection for Collaborative Tagging Quality and User Personalization*);
2. Award of **Excellent Graduates**, from Ministry of Human Resources and Social Security of Shandong Province;
3. Award of **SDU Excellent Graduates** 2016, from SDU;
4. **National Scholarship**, from Ministry of Education of China;
5. Excellent Student First-Class Scholarship (Merit Student), from SDU;
6. **First Prize in National Students' Innovative Training Projects** (*Integrating Electronic and Visual Signals for Accurate Localization*, 4 members);
7. Excellent Student Scholarship of National Tobacco Corp, from SDU.