

# Yu-Xuan Qiu

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## EDUCATION

**Shenzhen University**, Shenzhen, Guangdong, China

- M.S. in Computer Science and Technology Sep 2015 – Jul 2018
  - Thesis: Research and Implementation of Structural Clustering on Probabilistic Graphs
  - Advisers: Prof. Guoliang Chen, Dr. Rong-Hua Li
  - Focus: Graph data management.
  - Average Mark: 87 / 100
  - Rank 6 / 31
- B.S. in Computer Science and Technology Sep 2011 – Jul 2015
  - Cumulative GPA: 3.77 / 4.0
  - Rank Top 5%
  - Exemption from graduate admission exam

## RESEARCH EXPERIENCE

**Beijing Institute of Technology** School of Computer Science and Technology

- Research Assistant Apr 2018 – present
  - Project: Significant Community Detection Framework over Large Graphs
  - Supervisor: Dr. Rong-Hua Li
  - Focus: Devising and building an efficient graph significant community detection system.

**Hong Kong Baptist University** Department of Computer Science

- Research Assistant Feb 2017 – Jun 2017
  - Project: A New Contraction & Expansion Framework for I/O Efficient Graph Processing
  - Supervisor: Dr. Zhiwei Zhang
  - Focus: External Programming.

**National High Performance Computing Center at Shenzhen**

- Undergraduate Research Student Apr 2013 – May 2014
  - Project: cGeDBIT system
  - Supervisor: Prof. Rui Mao
  - Focus: Building a C++ based indexing system for Similarity Search.

## PUBLICATIONS

### JOURNALS

- [1] Yu-Xuan Qiu, Rong-Hua Li, Jianxin Li, Shaojie Qiao, Guoren Wang, Jeffrey Xu Yu, and Rui Mao, “Efficient Structural Clustering on Probabilistic Graphs,” *IEEE Transactions on Knowledge and Data Engineering*, Accepted for publication in a future issue.

### CONFERENCES

- [1] Shuxin Zhong, Yu-Xuan Qiu, Rukhsana Ruby, Lu Wang, Kaishun Wu, “SIDE: Semi-Distributed Mechanical Equilibrium based UAV Deployment,” in *International Conference on Network Protocols*, Cambridge, UK, Sep 2018.
- [2] Shuxin Zhong, Yongzhi Huang, Rukhsana Ruby, Lu Wang, Yu-Xuan Qiu, Kaishun Wu, “Wi-fire: Device-free fire detection using WiFi networks,” in *International Conference on Communications*, Paris, France, May 2017.

### PATENTS

- [1] Rong-Hua Li, Yu-Xuan Qiu, Rui Mao, Lu Qin, Tan Jin, Taotao Cai, “Generalized maximum-degree random walk graph sampling algorithm,” China Patent, No. CN201410749244.X, (**licensed**).
- [2] Rong-Hua Li, Yu-Xuan Qiu, Rui Mao, Lu Qin, Shuxin Zhong, “Searching method and device for optimal route of multiple meeting point applicable for real-time ride-sharing,” China Patent, No. CN201510274711.2, (**licensed**).
- [3] Rong-Hua Li, Kaihua Liao, Rui Mao, Lu Qin, Taotao Cai, Yu-Xuan Qiu, “Algorithm for searching keywords of large-scale graph data on basis of MapReduce,” China Patent, No. CN201510274711.2, (**licensed**).
- [4] Rong-Hua Li, Yu-Xuan Qiu, Rui Mao, Lu Qin, Shuxin Zhong, “Optimal multi-convergence meeting point path search method and apparatus based on A star strategy,” China Patent, No. CN201511018390.6, (pending).

- [5] Rong-Hua Li, Weipeng Zhang, Rui Mao, Yu-Xuan Qiu, Zhengjun Li, Kezhong Lu, Yi Wang, Hao Liao, “MapReduce-based graph structure clustering algorithm,” China Patent, No. CN201710653492.8, (pending).

<b>AWARDS &amp; SCHOLARSHIPS</b>	▪ First Class Postgraduate Scholarship	Nov 2017
	▪ SZU Excellent Graduate Student Cadre	Nov 2016
	▪ First Class Postgraduate Scholarship	Nov 2016
	▪ HUAWEI Code Craft 2016 Area Top 32, Ranked top 32 out of 500 teams.	May 2016
	▪ First Class Postgraduate Scholarship	Nov 2015
	▪ Excellent Student Cadre	2014– 2015
	▪ LOONGSON Award 1st Prize	2014– 2015
	▪ SZU Excellent Student of Social Work(3rd Prize)	2013– 2014
	▪ Songshan Lake Scholarship	2013– 2014
	▪ LOONGSON Award 3rd Prize	2012– 2013
	▪ National Endeavor Scholarship	2011– 2012
	▪ SZU Excellent Student of Academic Performance (Top Prize)	2011– 2012
<b>TEACHING ASSISTANTS</b>	▪ MFE5260 Data Sciences in Financial Engineering. CUHK(Shenzhen), Master of Financial Engineering.	Spring 2018
	▪ MFE5250 Programming for the Financial Engineering. CUHK(Shenzhen), Master of Financial Engineering.	Fall 2016/2017
	▪ Advanced Database Technology. SUNY Binghamton, SZU Summer School.	Summer 2015
	▪ Advanced Database Technology.	Spring 2015
	▪ Parallel Algorithm.	Fall 2014
	▪ Discrete Mathematics.	Fall 2012
	▪ Introduction to Computers. Special Course of Computational Thinking.	Fall 2012
	▪ Advance Applications of MS OFFICE.	Spring 2012/2013
<b>LANGUAGES</b>	▪ Chinese Mandarin: Native Language.	
	▪ English: CET-6 507, IELTS 6.5	
<b>SKILLS</b>	<b>Familiar:</b> $\text{\LaTeX}$ , C++, Python, MATLAB. <b>Used:</b> Mathematica, Basic, Pascal, C, Java.	
<b>INTERESTS</b>	Swimming, badminton, table tennis	
<b>REFERENCES</b>	<b>▪ Professor Rui Mao</b> Professor & Vice Dean of College of Computer Science and Software Engineering, Shenzhen University 831, Computer Science Building, South Campus, Shenzhen University, Baishi Road, Nanshan District, Shenzhen, Guangdong, 518060, China mao@szu.edu.cn • +86 (755) 8696-7061	
	<b>▪ Dr. Rong-Hua Li</b> Associate Professor of School of Computer Science & Technology Beijing Institute of Technology No.5 Zhongguancun South Street, Haidian District, Beijing, 100081, China lironghuascut@gmail.com	