# 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. (**TKDE, CCF A**)

**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. (**ICNP 2018, CCF B, CORE2018 A**)

[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. (**ICC 2017, CCF C, CORE2018 B**)

**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, "Optimal multi-meeting-point route searching method and apparatus applied to real-time ridesharing," 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).

**AWARDS & SCHOLARSHIPS**

- 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, — May 2016
  Ranked top 32 out of 500 teams.
- First Class Postgraduate Scholarship — Nov 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

**TEACHING ASSISTANTS**

- MFE5260 Data Sciences in Financial Engineering. — Spring 2018
  CUHK(Shenzhen), Master of Financial Engineering.
- MFE5250 Programming for the Financial Engineering. — Fall 2016/2017
  CUHK(Shenzhen), Master of Financial Engineering.
- Advanced Database Technology. — Summer 2015
  SUNY Binghamton, SZU Summer School.
- Advanced Database Technology. — Spring 2015
- Parallel Algorithm. — Fall 2014
- Discrete Mathematics. — Fall 2012
- Introduction to Computers. — Fall 2012
  Special Course of Computational Thinking.
- Advance Applications of MS OFFICE. — Spring 2012/2013

**LANGUAGES**

- Chinese Mandarin: Native Language.
- English: CET-6 507, IELTS 7.0

**SKILLS**

**Familiar:** LaTeX, C++, Python, MATLAB.
**Used:** Mathematica, Basic, Pascal, C, Java.

**INTERESTS**

Swimming, badminton, table tennis

**REFERENCES**

- **Professor Rui Mao**
  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
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- **Dr. Rong-Hua Li**
  Associate Professor of School of Computer Science & Technology
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- **Professor Kaishun Wu**
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  Shenzhen University
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