

ACADEMIC EXPERIENCE

- 2016.8 - Present **The Chinese University of Hong Kong (CUHK)** *Shatin, Hong Kong*
Ph.D. in Computer Science and Engineering
◦ Supervisor: Prof. James Cheng
- 2011.9 - 2015.6 **Huazhong University of Science and Technology (HUST)** *Wuhan, China*
B.Eng in Computer Science and Technology
Overall GPA: 3.88 / 4.00 Rank: 1/ 30/ 472 (in a 30-student Honor Class)

RESEARCH INTERESTS

My general research interests cover the broad area of distributed systems and databases, with special emphasis on distributed graph systems and distributed machine learning/deep learning systems. My current works focus on RDMA based OLAP/OLTP system over property graphs, distributed DL systems and Graph Neural Network systems.

WORK EXPERIENCE

- 2017.5 - 2017.8 **University of Pennsylvania, NetDB Lab, Dept. CIS** *PA, USA*
◦ **Visiting Scholar**, Distributed Graph Query Optimization
Supervisor: **Prof. Boon Thau Loo**.
- 2015.9 - 2016.7 **The Chinese University of Hong Kong, HDL Lab, Dept. CSE** *HK*
◦ **Research Assistant**, Distributed Systems for Large Scale Data Analytics.
Supervisor: **Prof. James Cheng**.
- 2014.6 - 2015.5 **Microsoft Research Asia, Software Analytics Group** *Beijing, China*
◦ **Research Intern**, Large-scale Data Analytics, Distributed System.
Supervisor: **Qingwei Lin** (Lead Researcher) and **Dr. Jianguang Lou** (Principle Researcher).
- 2013.9 - 2014.6 **HUST, IDC Lab, Dept. CSE** *Wuhan, China*
◦ **Research Intern**, System Optimization on Hadoop.
Supervisor: **Prof. Ruixuan Li**

PUBLICATIONS

- [1] *A Representation Learning Framework for Property Graphs* **SIGKDD'19**
Yifan Hou, **Hongzhi Chen**, Changji Li, James Cheng, Ming-Chang Yang.
- [2] *Large Scale Graph Mining with G-Miner* **SIGMOD'19**
Hongzhi Chen, Xiaoxi Wang, Chenghuan Huang, Juncheng Fang, Yifan Hou, Changji Li, James Cheng.
- [3] *Optimizing Declarative Graph Queries at Large Scale* **SIGMOD'19**
Qizhen Zhang, Akash Acharya, **Hongzhi Chen**, Simran Arora, Ang Chen, Vincent Liu, Boon Loo.
- [4] *Scalable De Novo Genome Assembly Using a Pregel-Like Graph-Parallel System* **TCBB'19**
Guimu Guo, **Hongzhi Chen**, Da Yan, James Cheng, Jake Chen, Zechen Chong.
- [5] *Lightweight Fault Tolerance in Pregel-Like Systems* **ICPP'19**
Da Yan, James Cheng, **Hongzhi Chen**, Cheng Long, Purushotham Bangalore.
- [6] *G-Miner: An Efficient Task-Oriented Graph Mining System.* **EuroSys'18**
Hongzhi Chen, Miao Liu, Yunjian Zhao, Xiao Yan, Da Yan, James Cheng.
- [7] *Scalable De Novo Genome Assembly Using Pregel.* **ICDE'18**
Da Yan, **Hongzhi Chen**, James Cheng, Zhenkun Cai, Bin Shao.
- [8] *GraphD: Distributed Vertex-Centric Graph Processing Beyond the Memory Limit.* **TPDS'18**
Da Yan, Yuzhen Huang, Miao Liu, **Hongzhi Chen**, James Cheng, Huanhuan Wu, Chengcui Zhang.

- [9] *Norm-Ranging LSH for Maximum Inner Product Search.* **NIPS'18**
Xiao Yan, Jinfeng Li, Xinyan Da, **Hongzhi Chen**, and James Cheng.
- [10] *Architectural Implications on the Performance and Cost of Graph Analytics Systems.* **SoCC'17**
Qizhen Zhang, **Hongzhi Chen**, Da Yan, James Cheng, Boon Thau Loo, Purushotham Bangalore.
- [11] *G-thinker: Big Graph Mining Made Easier and Faster.* **arXiv'17**
Da Yan, **Hongzhi Chen**, James Cheng, M.Tamer.Ozsu, Qizhen Zhang, John C.S. Lui.

AWARDS & HONORS

- 2019.5 SIGMOD Travel Award
- 2018.4 EuroSys Travel Award
- 2016 - 2020 CUHK Postgraduate Studentship.
- 2015.6 The original winner of **Hong Kong PhD Fellowship**.
- 2015.6 **"Stars of Tomorrow" at Microsoft Research Asia** (Only 15% research interns won the Award)
- 2015.6 Outstanding Graduates (3% in HUST)
- 2014.10 CCF (China Computer Federation) National **Top 100** Outstanding Undergraduates (**Top 0.1%**)
- 2014.9 Academic Excellence Scholarship (2% in HUST)
- 2014.9 Merit Undergraduate (2% in HUST)
- 2013.9 National Undergraduate Scholarship (2% in HUST)
- 2013.9 Merit Undergraduate (2% in HUST)
- 2012.9 Most Outstanding Undergraduate (1% in HUST)
- 2012.9 Academic Excellence Scholarship (2% in HUST)

TEACHING

- Spring, 2018 CSCI1020: Hands-on Introduction to C++
- Fall, 2017 ENGG1110: Problem Solving By Programming
- Spring, 2017 ENGG1110: Problem Solving By Programming
- Fall, 2016 ENGG1110: Problem Solving By Programming

PROFESSIONAL ACTIVITIES

External Reviewer

- 2019 SIGMOD
- 2018 VLDB, ICDE
- 2017 VLDB, ICDE, CCGRID, BigData
- 2016 VLDB, KDD, SOCC, ICDM, DASFAA, BigData, APWeb

Participation in

- 2019 International Conference on Management of Data, Amsterdam, Netherlands
- 2018 European Conference on Computer Systems, Porto, Portugal
- 2015 China National Computer Congress, Zhengzhou, China

SKILLS

- Programming C/C++, C#, Java, Python
- Operating Linux, Windows
- Documentation Latex, MS Office, HTML