

Chenzi Zhang

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Education

2013 – present *Ph.D. candidate*, Computer Science, the University of Hong Kong (HKU)
Supervisor: Dr. Hubert Chan
Research Interests: Algorithmic and Spectral Graph Theory

2008 – 2013 *BSc.*, Information Technology, the Hong Kong Polytechnic University (PolyU)
Graduated with First Class Honours
Thesis: *Maximum Density Set Cover Problem*, advised by Dr. Robert Luk, 2013

Projects and Work Experience

2017, summer *Software Engineer Intern*, Jane Street Capital
3 months Worked on data aggregation and filtering of a text-based browser
Worked on market data system and post-trade processing system

2015 - 2016 *Research Intern*, Noah's Ark Lab, Huawei
6 months Designed an algorithm for graph edge partitioning through vertex cut
Improved theoretical bound (for Power-law graph) and reduced cut by at least 50%

2015, summer *Research Intern*, China Research Lab, IBM
3 months Designed an algorithm for graph based multi join processing in data streams
Implemented an online clustering algorithm based on DenStream and DBScan

2011 - 2012 *Software Engineer Intern*, XGATE Corporation Limited
1 year Led the implementation of an enterprise level high concurrency Java application
Designed a MySQL database adapter and increased service throughput by five-fold

2011, summer *Research Assistant*, Advanced Enterprise Infrastructure Laboratory, PolyU
3 months Developed an image processing application to recognize airport baggage cart
Selected as a key project and presented at the University of Cambridge

Conference Publications

Chenzi Zhang, Fan Wei, Qin Liu, Zhihao Gavin Tang and Zhenguo Li
Graph Edge Partitioning via Neighborhood Heuristic
23rd SIGKDD Conference on Knowledge Discovery and Data Mining (**oral, KDD 2017**)

Chenzi Zhang, Shuguan Hu, Zhihao Gavin Tang, T-H. Hubert Chan
Re-visiting Learning on Hypergraphs: Confidence Interval and Subgradient Method
34th International Conference on Machine Learning (**ICML 2017**)

Yupeng Li, Shaofeng H.-C. Jiang, Haisheng Tan, Chenzi Zhang, Guihai Chen, Jipeng Zhou, Francis C.M. Lau

Efficient Online Coflow Routing and Scheduling

17th International Symposium on Mobile Ad Hoc Networking and Computing (**MobiHoc 2016**)

Xiaowei Wu and Chenzi Zhang

Efficient Algorithm for Computing All Low s - t Edge Connectivities in Directed Graphs

40th International Symposium on Mathematical Foundations of Computer Science (**MFCS 2015**)

T-H. Hubert Chan, Zhihao Gavin Tang and Chenzi Zhang

Cheeger Inequalities for General Edge-Weighted Directed Graphs

21st Annual International Computing and Combinatorics Conference (**COCOON 2015**)

T-H. Hubert Chan, Xiaowei Wu, Chenzi Zhang and Zhichao Zhao

Dynamic Tree Shortcut with Constant Degree

21st Annual International Computing and Combinatorics Conference (**COCOON 2015**)

Working Papers

T-H. Hubert Chan, Zhihao Gavin Tang, Xiaowei Wu, Chenzi Zhang

Nonlinear Laplacian for Directed Hypergraphs and its Applications to Semi-supervised Learning

T-H. Hubert Chan, Anand Louis, Zhihao Gavin Tang and Chenzi Zhang

Spectral Properties of Hypergraph Laplacian and Approximation Algorithms

Teaching Assistant

2016 Fall COMP2121 Discrete Mathematics (Dr. Hubert Chan)

2014 Fall COMP9601 Theory of Computation and Algorithms Design (Prof. Tak-Wah Lam)

2012 Fall COMP305P Data Structures and Algorithms (Dr. Man Lung Yiu)

Scholarships and Awards

2015 – present *Scholarship*, from Hung Hing Ying family, HKU (renewable)

2013 – present *Scholarship*, for postgraduate student, HKU

2012 *Third prize*, IEEE Hong Kong section 2011 (UG) student paper Contest

2010 – 2011 *Scholarship*, for outbound exchange students, PolyU

2009 – 2010 *Dean's list*, Faculty of engineering, PolyU

2008 – 2013 *Scholarship*, full undergraduate scholarship, PolyU

2006 & 2007 *Bronze medal*, National Olympiad in Informatics, China

2006 & 2007 *1st Place in Yunnan Province, First Prize*,

National Olympiad in Informatics in Provinces, Yunnan, China

Skills and Interests

Skills Algorithm Design, C++, Ocaml

Languages English (fluent, TOEFL: 106/120), Cantonese (conversational), Mandarin (native)