

# Da Yan

## Curriculum Vitae

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### Education

- 2009–2014 **Ph.D. in Computer Science**, *The Hong Kong University of Science & Technology*, Clear Water Bay, Kowloon, Hong Kong.
- 2005–2009 **B.S. in Computer Science**, *Fudan University*, Shanghai, China, (Top 5% in GPA).

### Research Experience

- 2016–now **Assistant Professor**, *Department of Computer Science*, The University of Alabama at Birmingham, Birmingham, AL.
- 2014–2016 **Postdoctoral Fellow**, *Department of Computer Science & Engineering*, The Chinese University of Hong Kong, Sha Tin, New Territories, Hong Kong.
- 2007–2009 **Undergraduate Research Assistant**, *ADMIS (Advanced Data Management and Information System) Lab*, Fudan University, Shanghai, China.

### Publications

- *Da Yan*, Guimu Guo, Md Mashiur Rahman Chowdhury, Tamer Özsu, Wei-Shinn Ku, John C.S. Lui. **G-thinker: A Distributed Framework for Mining Subgraphs in a Big Graph**. In *IEEE International Conference on Data Engineering (ICDE)*, 2020.
- *Da Yan*, Wenwen Qu, Guimu Guo, Xiaoling Wang. **PrefixFPM: A Parallel Framework for General-Purpose Frequent Pattern Mining**. In *IEEE International Conference on Data Engineering (ICDE)*, 2020.
- Arpan Man Sainju, Wenchong He, Zhe Jiang, *Da Yan*. **Spatial Classification With Limited Observations Based On Physics-Aware Structural Constraint**. In *Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI)*, 2020.
- Xingyao Wang, *Da Yan*, Ke Chen, Yancong Deng, Cheng Long, Kunlin Zhang, Siboyan. **Lane Extraction and Quality Evaluation: A Hough Transform Based Approach**. In *IEEE International Conference on Multimedia Information Processing and Retrieval (MIPR)*, 2020.
- Ji Cheng, *Da Yan*, Xiaotian Hao, Wilfred Ng. **Mining Order-Preserving Submatrices Under Data Uncertainty: A Possible-World Approach**. In *IEEE International Conference on Data Engineering (ICDE)*, 2019.
- Harry Kai-Ho Chan, Cheng Long, *Da Yan*, Raymond Chi-Wing Wong. **Fraction-Score: A New Support Measure for Co-location Pattern Mining**. In *IEEE International Conference on Data Engineering (ICDE)*, 2019.

- Da Yan, James Cheng, Hongzhi Chen, Cheng Long, Purushotham Bangalore. **Lightweight Fault Tolerance in Pregel-Like Systems**. In *International Conference on Parallel Processing (ICPP)*, 2019.
- Guimu Guo, Hongzhi Chen, Da Yan, James Cheng, Jake Chen, and Zechen Chong. **Scalable de Novo Genome Assembly Using a Pregel-Like Graph-Parallel System**. In *IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB)*, accepted in 2019.
- Da Yan, Guimu Guo, Md Mashiur Rahman Chowdhury, M. Tamer Özsu, John C.S. Lui, Weida Tan. **T-thinker: A Task-Centric Distributed Framework For Compute-Intensive Divide-and-Conquer Algorithms**. In *the ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming (PPoPP)*, 2019.
- Yi Yang, Da Yan, Shuigeng Zhou, Guimu Guo. **Parallel Clique-Like Subgraph Counting and Listing**. In *International Conference on Conceptual Modeling (ER)*, 2019.
- Ji Cheng, Guimu Guo, Da Yan, Xiaotian Hao, Wilfred Ng. **EasyRain: A User-Friendly Platform for Comparing Precipitation Nowcasting Models**. In *IEEE BigData*, 2019.
- Guimu Guo, Jalal Majed Khalil, Da Yan, Virginia Sisiopiku. **Realistic Transport Simulation with Open Data**. In *IEEE BigData*, 2019.
- Guimu Guo, Jalal Majed Khalil, Da Yan, Virginia Sisiopiku. **Realistic Transport Simulation: Tackling the Small Data Challenge with Open Data**. In *BTSD @ IEEE BigData*, 2019.
- Siboyan and Da Yan. **Volatility Estimation in the Era of High-Frequency Finance**. *FinTech as a Disruptive Technology for Financial Institution*, IGI Global, 2019. <https://www.igi-global.com/chapter/volatility-estimation-in-the-era-of-high-frequency-finance/221594>
- Da Yan, Yuzhen Huang, Miao Liu, Hongzhi Chen, James Cheng, Huanhuan Wu, Chengcui Zhang. **GraphD: Distributed Vertex-Centric Graph Processing Beyond the Memory Limit**. *IEEE Transactions on Parallel and Distributed Systems (TPDS)*, 29(1): 99–114, 2018. <http://ieeexplore.ieee.org/document/8016377/>
- Hongzhi Chen, Miao Liu, Yunjian Zhao, Xiao Yan, Da Yan, James Cheng. **G-Miner: An Efficient Task-Oriented Graph Mining System**. *The European Conference on Computer Systems (EuroSys)*, 2018.
- Da Yan, Hongzhi Chen, James Cheng, Zhenkun Cai, Bin Shao. **Scalable De Novo Genome Assembly Using Pregel**. In *IEEE International Conference on Data Engineering (ICDE)*, 2018.
- Da Yan, Yingyi Bu, Yuanyuan Tian and Amol Deshpande. **Big Graph Analytics Platforms**. *Foundations and Trends in Databases (DBS)*, 7(1-2):1–195, 2017. <https://www.nowpublishers.com/article/Details/DBS-056>

- Da Yan, Yuanyuan Tian and James Cheng. **Systems for Big Graph Analytics**. *Springer Briefs in Computer Science*, ISBN 978-3-319-58216-0, pages 1–92, 2017. <http://www.springer.com/us/book/9783319582160>
- Da Yan and Hang Liu. **Parallel Graph Processing**. *Springer Briefs in Computer Science*, ISBN 978-3-319-58216-0, pages 1–92, 2017. <http://www.springer.com/us/book/9783319582160>
- Qizhen Zhang, Hongzhi Chen, Da Yan, James Cheng, Boon Thau Loo and Purushotham Bangalore. **Architectural Implications on the Performance and Cost of Graph Analytics Systems**. *The ACM Symposium on Cloud Computing (SoCC)*, pages 40–51, 2017. <https://dl.acm.org/citation.cfm?id=3128606>
- Huanhuan Wu, Yunjian Zhao, James Cheng, Da Yan. **Efficient Processing of Growing Temporal Graphs**. *Database Systems for Advanced Applications (DAS-FAA)*, pages 387–403, 2017. [https://link.springer.com/chapter/10.1007/978-3-319-55699-4\\_24](https://link.springer.com/chapter/10.1007/978-3-319-55699-4_24)
- Fanhua Shang, Yuanyuan Liu, James Cheng, Da Yan. **Fuzzy Double Trace Norm Minimization for Recommendation Systems**. *IEEE Transactions on Fuzzy Systems*, 2017. <http://ieeexplore.ieee.org/abstract/document/8061023/>
- Yi Yang, Da Yan, Huanhuan Wu, James Cheng, Shuigeng Zhou and John C.S. Lui. **Diversified Temporal Subgraph Pattern Mining**. *ACM SIGKDD Conferences on Knowledge Discovery and Data Mining (KDD)*, pages 1965–1974, 2016. <http://www.kdd.org/kdd2016/papers/files/rpp0702-yangA.pdf>
- Cheng Chen, Hejun Wu, Da Yan and James Cheng. **SGraph: A Distributed Streaming System For Processing Big Graphs**. *International Conference on Big Data Computing and Communications (BIGCOM)*, pages 285–294, 2016. [https://link.springer.com/chapter/10.1007/978-3-319-42553-5\\_24](https://link.springer.com/chapter/10.1007/978-3-319-42553-5_24)
- Da Yan, Yingyi Bu, Yuanyuan Tian, Amol Deshpande and James Cheng. **Big Graph Analytics Systems**. *ACM International Conference on Management of Data (SIGMOD)*, 2016. <https://dl.acm.org/citation.cfm?id=2912566>
- Qizhen Zhang, Da Yan and James Cheng. **Quegel: A General-Purpose System for Querying Big Graphs**. *ACM International Conference on Management of Data (SIGMOD)*, pages 2189–2192, 2016. <https://dl.acm.org/citation.cfm?id=2899398>
- Da Yan, James Cheng, M. Tamer Özsu, Fan Yang, Yi Lu, John C.S. Lui, Qizhen Zhang and Wilfred Ng. **A General-Purpose Query-Centric Framework for Querying Big Graphs**. *Proceedings of the VLDB Endowment (PVLDB)*, 9(7): 564–575, 2016. <http://www.vldb.org/pvldb/vol9/p564-yan.pdf>
- Da Yan, James Cheng, Yi Lu and Wilfred Ng. **Effective Techniques for Message Reduction and Load Balancing in Distributed Graph Computation**. *World Wide Web Conference (WWW)*, pages 1307–1317, 2015. <http://www.www2015.it/documents/proceedings/proceedings/p1307.pdf>

- Da Yan, Zhou Zhao and Wilfred Ng. **Efficient Processing of Optimal Meeting Point Queries in Euclidean Space and Road Networks.** *Knowledge and Information Systems (KAIS)*, 42(2): 319–351, 2015. <https://link.springer.com/article/10.1007%2Fs10115-013-0686-y>
- Da Yan, James Cheng, Zhou Zhao and Wilfred Ng. **Efficient Location-based Search of Trajectories with Location Importance.** *Knowledge and Information Systems (KAIS)*, 45(1): 215–245, 2015. <https://link.springer.com/article/10.1007/s10115-014-0787-2>
- Yi Lu, James Cheng, Da Yan and Huanhuan Wu. **Large-Scale Distributed Graph Computing Systems: An Experimental Evaluation.** *Proceedings of the VLDB Endowment (PVLDB)*, 8(3):281–292, 2015. <http://www.vldb.org/pvldb/vol8/p281-lu.pdf>
- Huanhuan Wu, James Cheng, Yi Lu, Yiping Ke, Yuzhen Huang, Da Yan and Hejun Wu. **Core Decomposition in Large Temporal Graphs.** *IEEE BigData*, pages 649–658, 2015. <http://ieeexplore.ieee.org/document/7363809/>
- Da Yan, Zhou Zhao, Wilfred Ng and Steven Liu. **Probabilistic Convex Hull Queries over Uncertain Data.** *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 27(3): 852–865, 2015. <http://ieeexplore.ieee.org/document/6858080/>
- Da Yan, James Cheng, Yi Lu and Wilfred Ng. **Blogel: A Block-Centric Framework for Distributed Computation on Real-World Graphs.** *Proceedings of the VLDB Endowment (PVLDB)*, 7(14):1981–1992, 2014. <http://www.vldb.org/pvldb/vol7/p1981-yan.pdf>
- Da Yan, James Cheng, Kai Xing, Yi Lu, Wilfred Ng and Yingyi Bu. **Pregel Algorithms for Graph Connectivity Problems with Performance Guarantees.** *Proceedings of the VLDB Endowment (PVLDB)*, 7(14):1821–1832, 2014. <http://www.vldb.org/pvldb/vol7/p1821-yan.pdf>
- Zhou Zhao, Da Yan and Wilfred Ng. **Mining Probabilistically Frequent Sequential Patterns in Large Uncertain Databases.** *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 26(5):1171–1184, 2014. <http://ieeexplore.ieee.org/document/6570722/>
- Zhou Zhao, Da Yan, Wilfred Ng and Shi Gao. **A Transfer-Learning Based Framework of Crowd-Selection on Twitter.** In *ACM SIGKDD Conference on Knowledge Discovery and Data Mining (KDD)*, pages 1514–1517, 2013. <https://dl.acm.org/citation.cfm?id=2487708>
- Da Yan, James Cheng, Wilfred Ng and Steven Liu. **Finding Distance-Preserving Subgraphs in Large Road Networks.** In *IEEE International Conference on Data Engineering (ICDE)*, pages 625–636, 2013. <http://ieeexplore.ieee.org/document/6544861/>
- Da Yan, Zhou Zhao and Wilfred Ng. **Leveraging Read Rates of Passive RFID Tags for Real-Time Indoor Location Tracking.** In *ACM Conference on Information and Knowledge Management (CIKM)*, pages 375–384, 2012. <https://dl.acm.org/citation.cfm?id=2396811>

- Da Yan, Zhou Zhao and Wilfred Ng. **Monochromatic and Bichromatic Reverse Nearest Neighbor Queries on Land Surfaces**. In *ACM Conference on Information and Knowledge Management (CIKM)*, pages 942–951, 2012. <https://dl.acm.org/citation.cfm?id=2396880>
- Zhou Zhao, Da Yan and Wilfred Ng. **Mining Probabilistically Frequent Sequential Patterns in Uncertain Databases**. In *International Conference on Extending Database Technology (EDBT)*, pages 74–85, 2012. <https://dl.acm.org/citation.cfm?id=2247606>
- Zhou Zhao, Da Yan and Wilfred Ng. **A Probabilistic Convex Hull Query Tool**. In *International Conference on Extending Database Technology (EDBT)*, pages 570–573, 2012. <https://dl.acm.org/citation.cfm?id=2247668>
- Da Yan, Raymond Chi-Wing Wong and Wilfred Ng. **Efficient Methods for Finding Influential Locations with Adaptive Grids**. In *ACM Conference on Information and Knowledge Management (CIKM)*, pages 1475–1484, 2011. <https://dl.acm.org/citation.cfm?id=2063576.2063788>
- Da Yan, Zhou Zhao and Wilfred Ng. **Efficient Algorithms for Finding Optimal Meeting Point on Road Networks**. *Proceedings of the VLDB Endowment (PVLDB)*, pages 968–979, 2011. <http://www.vldb.org/pvldb/vol4/p968-yan.pdf>
- Da Yan and Wilfred Ng. **Robust Ranking of Uncertain Data**. In *Database Systems for Advanced Applications (DASFAA)*, pages 254–268, 2011. **The Best Paper Award**. [https://link.springer.com/chapter/10.1007/978-3-642-20149-3\\_20](https://link.springer.com/chapter/10.1007/978-3-642-20149-3_20)

## Invited Talks

- Dec 2, 2019 **A Task-Centric Approach to Revolutionize Big Graph Systems Research**, *Dagstuhl Seminar 19491: Big Graph Processing Systems*, Schloss Dagstuhl, Germany, <https://www.dagstuhl.de/de/programm/kalender/semhp/?semnr=19491>.
- Aug 20, 2019 **Big Data Systems: Combining Ease of Programming with Performance**, *Oak Ridge National Laboratory*, Oak Ridge, TN.
- May 22, 2019 **Big Data Systems: Combining Ease of Programming with Performance**, *East China Normal University (ECNU)*, Shanghai, China.
- Mar 30, 2019 **Expert Panel**, *The 16th Annual MidSouth Computational Biology and Bioinformatics Society Conference (MCBIOS 2019)*, Birmingham, AL.
- Jan 30, 2019 **Mining Subgraphs from a Big Graph: Solution and Challenges**, *Dagstuhl Seminar 19051: Data Structures for the Cloud and External Memory Data*, Schloss Dagstuhl, Germany, <http://drops.dagstuhl.de/opus/volltexte/2019/10572/>.
- Aug 17, 2018 **User-Friendly Distributed Frameworks for Processing Big Data**, *Queen's University Belfast*, Belfast, Northern Ireland.

- Aug 1, 2018 **T-thinker: A Task-Centric Framework to Revolutionize Big Data Systems Research**, *Computing Community Consortium (CCC) Early Career Researcher Symposium*, Washington, D.C., <https://cra.org/ccc/wp-content/uploads/sites/2/2018/04/CCC-ECR-Poster-Booklet-August-2018.pdf>.
- July 13, 2018 **User-Friendly Distributed Frameworks for Processing Big Data**, *International Forum on Artificial Intelligence and Trustworthy Software*, East China Normal University, Shanghai, China.
- Mar 22, 2018 **User-Friendly Distributed Frameworks for Processing Big Data**, *Auburn University*, Auburn, AL, <http://www.eng.auburn.edu/ece/faculty/skm0049/seminar2018/mar22.html>.
- Nov 7, 2017 **Featured Panel: Future of Convergence: An International Perspective**, *Anniversary of the Society for Design and Process Science (SDPS)*, 2017, <https://www.sdpsnet.org/sdps/documents/sdps-2017/advanced-program-low.pdf#page=22>.
- Oct 23, 2017 **Poster: Bridging High Performance of HPC Community with Programming Friendliness of Data Science Community**, *The Computing Community Consortium (CCC) Symposium on Computing Research 2017*, Washington, D.C., <https://www.youtube.com/watch?v=3z4en980IvA>.
- Sep 21, 2017 **Big Data Frameworks: Bridging High Performance of HPC Community with Programming Friendliness of Data Science Community**, *Massachusetts Institute of Technology*, Cambridge, MA, [https://docs.google.com/spreadsheets/d/1gGXSXQT6NhowqE9rZ4X\\_DPqw0FGLlsrfRtQdetFoAJc/edit#gid=1416015752](https://docs.google.com/spreadsheets/d/1gGXSXQT6NhowqE9rZ4X_DPqw0FGLlsrfRtQdetFoAJc/edit#gid=1416015752).
- Oct 21, 2016 **Systems for Big Graph Analytics (Alabama IEEE Computer Society Talk)**, *The University of Alabama*, Tuscaloosa, Alabama.
- Jun 2, 2016 **Systems for Big Graph Analytics**, *City University of Hong Kong*, Kowloon Tong, Hong Kong, [https://www.cs.cityu.edu.hk/news/seminars/sem2015-2016\\_no43.pdf](https://www.cs.cityu.edu.hk/news/seminars/sem2015-2016_no43.pdf).
- Feb 29, 2016 **Systems and Algorithms for Big Data Analytics**, *University of California, Riverside (UCR)*, California, USA, <http://wwwcontent.cs.ucr.edu/departments/eventlookup/543>.
- Feb 22, 2016 **Systems and Algorithms for Big Data Analytics**, *Michigan Technological University*, Houghton, Michigan, [https://events.mtu.edu/event/systems\\_and\\_algorithms\\_for\\_big\\_data\\_analytics#.WsZstpM-dHR](https://events.mtu.edu/event/systems_and_algorithms_for_big_data_analytics#.WsZstpM-dHR).
- Feb 9, 2016 **Systems and Algorithms for Big Data Analytics**, *University of Notre Dame*, Notre Dame, Indiana, <https://cse.nd.edu/seminars/cse-seminar-series-da-yan>.
- Jan 21, 2016 **Systems and Algorithms for Big Data Analytics**, *Hong Kong Baptist University (HKBU)*, Kowloon Tong, Hong Kong, <https://www.comp.hkbu.edu.hk/v1/?page=seminars&id=360>.
- Nov 14, 2014 **Distributed Graph Computing: Algorithms and Systems**, *Sun Yat-Sen University (SYSU)*, Guangzhou, China.

- May 23, 2014 **Distributed Graph Computing Beyond Pregel**, *Alibaba Xixi Park (Taobao City)*, Hangzhou, China.
- May 8, 2014 **Distributed Graph Computing: Algorithms and Systems**, *National Institute of Informatics (NII)*, Tokyo, Japan.
- Dec, 2012 **Query Processing in Spatial Databases**, *East China Normal University (ECNU)*, Shanghai, China.

## Conference Talks

- Aug 7, 2019 **Lightweight Fault Tolerance in Pregel-Like Systems**, *48th International Conference on Parallel Processing (ICPP)*, Kyoto, Japan.
- Jun 26, 2016 **Big Graph Analytics Systems (Tutorial)**, *ACM SIGMOD Conference*, San Francisco, USA, [http://sigmod2016.org/sigmod\\_tutorial2.shtml](http://sigmod2016.org/sigmod_tutorial2.shtml).
- Jun 27, 2016 **Quegel: A General-Purpose System for Querying Big Graphs (Poster)**, *ACM SIGMOD 2016 Conference*, San Francisco, USA.
- May 22, 2015 **Effective Techniques for Message Reduction and Load Balancing in Distributed Graph Computation**, *24th International World Wide Web Conference (WWW)*, Florence, Italy.
- Sep 2, 2015 **Pregel Algorithms for Graph Connectivity Problems with Performance Guarantees**, *41th International Conference on Very Large Data Bases (VLDB)*, Kohala Coast, Hawai'i.
- Sep 2, 2015 **Blogel: A Block-Centric Framework for Distributed Computation on Real-World Graphs**, *41th International Conference on Very Large Data Bases (VLDB)*, Kohala Coast, Hawai'i.
- April 10, 2013 **Finding Distance-Preserving Subgraphs in Large Road Networks**, *29th IEEE International Conference on Data Engineering (ICDE)*, Brisbane, Australia.
- Oct, 2012 **Leveraging Read Rates of Passive RFID Tags for Real-Time Indoor Location Tracking**, *21st ACM International Conference on Information and Knowledge Management*, Maui, HI.
- Oct, 2012 **Monochromatic and Bichromatic Reverse Nearest Neighbor Queries on Land Surfaces**, *21st ACM International Conference on Information and Knowledge Management*, Maui, HI.
- Aug 30, 2011 **Efficient Algorithms for Finding Optimal Meeting Point on Road Networks**, *37th International Conference on Very Large Data Bases (VLDB)*, Seattle, WA.
- Apr 25, 2011 **Robust Ranking of Uncertain Data**, *Database Systems for Advanced Applications (DASFAA)*, Hong Kong.

## Program Committee Membership

- 2020 The 2020 ACM SIGMOD/PODS International Conference on Management of Data (SIGMOD 2020)
- 2020 The 24th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD 2020)

- 2019 The 2019 ACM SIGMOD/PODS International Conference on Management of Data (SIGMOD 2019)
- 2019 The 16th Annual MidSouth Computational Biology and Bioinformatics Society Conference (MCBIOS 2019), Poster Chair
- 2019 The First International Workshop on Big Data Tools, Methods, and Use Cases for Innovative Scientific Discovery with IEEE BigData 2019 (BTSD 2019)
- 2019 18th International Workshop on Data Mining in Bioinformatics In Conjunction with SIGKDD 2019 (BIOKDD 2019), Program Chair
- 2019 The Eighth Workshop on Data Mining in Biomedical Informatics and Healthcare with ICDM 2019 (DMBIH 2019), Co-organizer
- 2018–2019 IEEE Big Data Congress
  - 2018 17th International Workshop on Data Mining in Bioinformatics In Conjunction with SIGKDD 2018 (BIOKDD 2018), Program Chair
  - 2018 44th International Conference on Very Large Data Bases (VLDB 2018)
  - 2018 47th International Conference on Parallel Processing (ICPP 2018)
  - 2018 IEEE 19th International Conference on Information Reuse and Integration for Data Science (IRI 2018)
  - 2017 The 26th International Joint Conference on Artificial Intelligence (IJCAI 2017)
  - 2017 The 17th International Conference on Algorithms and Architectures for Parallel Processing (ICA3PP 2017)
  - 2017 IEEE 18th International Conference on Information Reuse and Integration (IRI 2017)
  - 2017 The Fourth International Workshop on Big Data Management and Service (BDMS 2017)
  - 2016 IEEE International Conference on Parallel and Distributed Systems (ICPADS 2016)
  - 2016 The First International Workshop on Graph Analytics and Query Processing (GAP 2016)

## Journal Review

- 2019 BMC Supplements, Guest Editor
- 2018–20 IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB), Guest Editor
- 2017–18 ACM Transactions on Database Systems (TODS)
- 2017–18 The VLDB Journal (VLDBJ)
- 2016–19 IEEE Transactions on Parallel and Distributed Systems (TPDS)
- 2014–20 IEEE Transactions on Knowledge and Data Engineering (TKDE)
- 2018–19 IEEE Transactions on Network Science and Engineering (TNSE)
- 2015–16 World Wide Web Journal (WWWJ)
  - 2018 IEEE Transactions on Cloud Computing (TCC)
- 2015–17 Knowledge and Information Systems (KAIS)
  - 2018 Information Systems (IS)



- 2018 Information Sciences
- 2017 Future Generation Computer Systems (FGCS)
- 2016–2017 Frontiers of Computer Science (FCS)
- 2016 Distributed and Parallel Databases (DAPD)
- 2016 Computational Intelligence

## Grant Review

- 2020 NSF CISE OAC Panel
- 2019 Multiple NSF CISE IIS Panels

## Teaching Experience

- Fall 2018 **CS 665/767: Deep Learning**, *The University of Alabama at Birmingham*, Instructor.
- Fall 2017–19 **CS 467/667/767: Machine Learning**, *The University of Alabama at Birmingham*, Instructor.
- Spring 2017–19 **CS 485/685/785: Foundations of Data Science**, *The University of Alabama at Birmingham*, Instructor.
- Fall 2016–18 **CS334/534: Networking**, *The University of Alabama at Birmingham*, Instructor.
- Fall 2012 **COMP4431: Multimedia Computing**, *The Hong Kong University of Science & Technology*, Teaching Assistant.
- Spring 2011 **COMP231: Database Management Systems**, *The Hong Kong University of Science & Technology*, Teaching Assistant.
- Fall 2010 **COMP570: Introduction to Advanced Algorithmic Techniques**, *The Hong Kong University of Science & Technology*, Teaching Assistant.
- Spring 2010 **COMP152: Object-Oriented Programming and Data Structures**, *The Hong Kong University of Science & Technology*, Teaching Assistant.
- Fall 2009 **COMP104: Programming Fundamentals and Methodology**, *The Hong Kong University of Science & Technology*, Teaching Assistant.

## Awards

- 2019 Dagstuhl Seminar 19051 - NSF Support Grant for Junior Researchers
- 2017 South BD Hub Azure for Research Award, <https://www.microsoft.com/en-us/research/academic-program/azure-research-award-south-bd-hub/>
- 2015 HKIS-Towngas 2015 Young Scientist Award in Physical/Mathematical Science, <http://www.science.org.hk/index.php?action=awards>
- 2013 ICDE 2013 Student Travel Award, <http://www.icde2013.org/sts.html>
- 2011 DASFAA 2011 Best Paper Award, <http://www.dasfaa.net/awards.htm>
- 2009 Fudan Excellent Graduate
- 2007–2008 SCSK Corporation Scholarship
- 2007–2008 Fudan Excellent Student

2005–2009 Fudan Excellent Undergraduate Scholarship