

Zonghao Feng

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🌐 [unisolate](https://github.com/unisolate)

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Education

- 2017 - Present **Hong Kong University of Science and Technology.**
Ph.D. in Computer Science and Engineering
- 2013 - 2017 **Shandong University.**
B.Eng. in Computer Science and Technology
Graduated with distinction at Taishan College (China Top-Notch Undergraduate Training Program)

Research Experience

- 2017 - Present **Database Group, HKUST.**
Supervisor: Prof. Qiong Luo
- 2015 - 2017 **High Performance Computing Laboratory, Shandong University.**
Supervisor: Prof. Weiguo Liu

Publications

Conference Papers

- [1] **Evaluating Memory-Hard Proof-of-Work Algorithms on Three Processors.**
Zonghao Feng, Qiong Luo.
In *46th International Conference on Very Large Data Bases (VLDB)*, 2020.
- [2] **Accelerating Long Read Alignment on Three Processors.**
Zonghao Feng, Shuang Qiu, Lipeng Wang, Qiong Luo.
In *48th International Conference on Parallel Processing (ICPP)*, 2019.
- [3] **Parallelizing Big De Bruijn Graph Traversal for Genome Assembly on GPU Clusters.**
Shuang Qiu, Zonghao Feng, Qiong Luo.
In *24th International Conference on Database Systems for Advanced Applications (DASFAA)*, 2019.

Journal Papers

- [4] **Efficient Similarity Search for Sets over Graphs.**
Yue Wang, Zonghao Feng, Lei Chen, Zijian Li, Xun Jian, Qiong Luo.
In *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 2019. (In Press)

Talks

- Aug. 2019 **Accelerating Long Read Alignment on Three Processors.**
ICPP 2019, Kyoto, Japan.
- Jan. 2019 **Consensus Protocols in Blockchains: Performance and Scalability.**
Ph.D. Qualifying Exam, HKUST.

Awards and Certifications

Awards

- First Prize 2015 China Shandong Provincial Undergraduate Mathematical Contest in Modeling
- Silver Medal 2015 ACM-ICPC China Shandong Provincial Programming Contest
- Bronze Medal 2014 ACM-ICPC China Shanghai Invitational Programming Contest

Certifications

- 2016 IELTS, 7.0
- 2015 CCF Certified Software Professional, 330 (Top 3.46% among 3,819 participants)

Teaching

- Spring 2020 **MSBD 5009 Parallel Programming**, *Teaching Assistant*, HKUST.

Fall 2019 **COMP 3721 Theory of Computation**, *Teaching Assistant*, HKUST.
Spring 2019 **COMP 2611 Computer Architecture**, *Teaching Assistant*, HKUST.
Fall 2018 **COMP 5211 Advanced Artificial Intelligence**, *Teaching Assistant*, HKUST.
Spring 2018 **COMP 1942 Exploring and Visualizing Data**, *Teaching Assistant*, HKUST.