

Jianwen Zhao



Ph.D. in Computer Science and Engineering

Research area: databases, data mining, and machine learning

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Research Interest

Developing practical algorithms with non-trivial theoretical guarantees to solve problems that arise in areas of databases, data mining, and machine learning.

Education

Ph.D. Computer Science, The Chinese University of Hong Kong.

Aug 2017–Jul 2021(expected)

M.Sc. Aerospace Science and Technology, Beihang University.

GPA: 3.84/4.0, Sep 2014–Mar 2017

B.Eng. Spacecraft Design and Engineering, Beihang University.

GPA: 3.73/4.0, Sep 2010–Jul 2014

Publications and Patents

In publications marked with '**', authors are ordered alphabetically, as is a convention of theory papers. In the other publications, authors are ordered by contribution.

Works done at CUHK

- Jianwen Zhao, Yufei Tao. Minimum Vertex Augmentation. To appear in Proceedings of the 47th Very Large Data Bases Conference (VLDB), Copenhagen, Denmark, 2021.
- Jianwen Zhao, Ada Wai-chee Fu. Cloud-based Privacy Preserving Top- k Subgraph Querying on Large Graphs. To appear in 10th International Conference on Data Mining and Knowledge Management Process (CDKP), London, United Kingdom, 2021.
- Joint work with Abolfazl Asudeh, Shangqi Lu, and Yufei Tao. ** On Finding Rank Regret Representatives. ACM Transactions on Database Systems (TODS). (under review)

Works done at BUAA

- Jianwen Zhao, Renjie Li, Xiaohui Wang, and Chao Han. A Primary Target Selection Method for Human Asteroid Exploration. Manned Spaceflight, 2014, 20(6): 574-579.
- Xiaohui Wang, Liheng Mao, Yuxian Yue, and Jianwen Zhao. Manned Lunar Landing Mission Scale Analysis and Flight Scheme Selection based on Mission Architecture Matrix. Acta Astronautica 152 (2018): 385-395.
- Xiaohui Wang, Jianwen Zhao and Renjie Li. Target Asteroid Selection Method for Manned Asteroid Exploration. China patent: CN104176273A.

Teaching Experiences

- Data Structures. Aug–Dec 2017, Aug–Dec 2018, Jan–May 2020
- Introduction to Database Systems. Jan–May 2018
- Linear Algebra and Vector Calculus for Engineers. Jan–May 2019
- Design and Analysis of Algorithms. Aug–Dec 2019
- Introduction to Computing Using C++. Aug–Dec 2020

Major Awards

- Teaching Assistant of Merits. 2018–2019, CUHK
- Postgraduate Studentship. 2017–2021, CUHK
- National Scholarship. top 5%, 2015, BUAA
- First Prize, National Undergraduate Engineering Ability COMP. 2013, BUAA
- National Encouragement Scholarship. 2012, BUAA

Skills

- **Languages:** Professional in English, Native in Chinese.
- **Programming:** C, C++, Python, MATLAB, SQL, HTML, CSS, L^AT_EX, etc.