Zhaoming Chen

Curriculum Vitae

Harbin Institute of Technology
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Click **[here](Google drive)** to view my undergraduate and master's transcripts.
Click **[here](Github)** to view my GitHub website.

Education

2022–present **Master in Mathematics, School of Science, Harbin Institute of Technology, China** , *Score: 3.64/4.0*.
Thesis Title: High utility subgraph mining algorithms in graph databases
Status: In the writing phase

2018–2022 **Bachelor in Information and Computing Sciences, School of Science, Yanshan University, China**, *Score: 92.23/100*, Bachelor degree with honours.
Thesis Title: An efficient free tree mining algorithm for graph data sets
Graduation grade: A+

Publications

- **Zhaoming Chen**, Xinyang Chen,Guoting Chen, and Wensheng Gan, Frequent Subgraph Mining in Dynamic Databases, 2023 IEEE International Conference on BigData, pp 5733-5742. **[Link_Paper1]**
- **Zhaoming Chen**, Cheng He, Guoting Chen, and Wensheng Gan, Philippe Fournier-Viger, HUSM: High utility subgraph mining in single graph databases, Information Sciences, 675(2024), 120743, 1-20. **[Link_Paper2]**
- **Zhaoming Chen**, Xinyang Chen, Guoting Chen, and Wensheng Gan, Utility-driven free tree mining in graph databases, Submitted
- **Zhaoming Chen**, Xiaojie Zhang, and Guoting Chen, Incremental high utility subgraph mining in graph streams, Submitted

Research Experience

2022–present **Research Focus: Data mining**, *Pattern mining in graph databases*.
Task: Mining valuable subgraph structures in various graph databases, including dynamic and static graphs.

2020–2021 **Research Focus: Machine learning**, *Research on Water Source Quality Evaluation and Prediction Methods Based on Intelligent Algorithms*.
Task: Use different neural network algorithms based on various data characteristics, and optimize the neural network structure to achieve better prediction performance.

2019–2020 **Research Focus: Machine learning**, *Research on Television Product Recommendation Based on Collaborative Filtering and Convolutional Neural Networks*.
Task: Analyze the characteristics of different TV products and viewing audience profiles, and optimize convolutional neural networks to achieve better recommendation results.

Awards or Skills

Master: First-Class Scholarship

Bachelor: 2021-2022 National Scholarship (China), 7 First-Class Scholarships

Other prize: 2021: Second Prize (Honorable Mention) in the American College Student Mathematical Modeling Competition.

Programming: Java Python Matlab C++ Latex

Work Experience

04/2024-07/2024 **Teaching Assistant**, *Data Mining*.
Task: Supervise undergraduate students' laboratory courses and grade their regular assignments and code.

09/2022-06/2023 **Teaching Assistant**, *Advanced Mathematics*.
Task: Grade undergraduate assignments and provide regular assistance with questions.

References

- Guoting Chen, Professor, Schoo of Sciences, Great Bay University, China,
  Email: guoting.chen@univ-lille.fr
- Philippe Fournier-Viger, Distinguished Professor, College of Computer Science and Software Engineering, Shenzhen University, China,
  Email: philfv@szu.edu.cn