# Jinchao Huang

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## EDUCATION

**B.S., Computer Science, University of Science and Technology of China** Sept 2019 - June 2023

- **GPA:** 4.05/4.30 (major) 3.87/4.30 (cumulative) **Ranking:** 20/256 (top 8%)
- **Weighted Average Score:** 93.28/100 (major) 90.62/100 (cumulative)
- **Core Course:** Introduction to Computer Systems (H) (100/100), Operating Systems (H) (94/100), Computer Organization (94/100), Program Design (94/100), Linear Algebra (96/100), Algorithm Design (95/100)
- **Current Research Interests:** database, algorithms for big data with theoretical guarantees.

## INTERNSHIP

**RESEARCH ASSISTANT AT CUHK** | Advisor:Prof.Sibo Wang Sept 2022 - March 2023

## PUBLICATION

Xingyi Zhang, **Jinchao Huang**, Fangyuan Zhang, Sibo Wang.

**FICOM: An Effective and Scalable Active Learning Framework for GNNs on Semi-supervised Node Classification.**

International Journal on Very Large Data Bases (**VLDBJ**), under submission, 2023

- Aimed to select B nodes to label for the best possible GNN performance.
- Provided a (1 − 1/e)-approximate greedy solution exploiting the monotone and submodular property of the objective function.
- Scaled to large dataset by pruning less important nodes using approximate algorithms.

**Jinchao Huang**, Sibo Wang.

**Optimal Dynamic Subset Sampling and Its Extension.**

Proceedings of the 26th International Conference on Database Theory (**ICDT**), under submission, 2024

- Aimed at sampling a subset from a set of records each of which is associated with a probability of being independently sampled.
- Provided an optimal solution to the dynamic subset sampling problem.
- Extended to dynamic range subset sampling problem and provided two nontrivial solutions.

Xingguang Chen, **Jinchao Huang**, Fangyuan Zhang, Sibo Wang.

**Efficient Approximation Framework for Attribute Recommendation**

Proceedings of the ACM SIGMOD International Conference on Management of Data (**SIGMOD**), under submission, 2024.

- Proposed a general approximation framework for attribute recommendation that efficiently returns the top-$k$ attributes with theoretical guarantees.
- Supported an extensive range of metric functions.
- Gained up to an order of magnitude speed-up and consistently high accuracy compared to TopKAttr.

## AWARDS AND HONORS

- Second prize in the Chinese Mathematical Competition
- Elite Class Scholarship

- Outstanding Student Scholarship