

Yuxin Yang

☎ (+86) 18162318665 ✉ yuxinyang@hust.edu.cn 🆔 yux20000304 🎓 Google Scholar

BIOGRAPHY

Yuxin Yang is a Master student majoring in computer architecture at Huazhong University of Science and Technology. His research interests include **Index Structures, Memory Systems, and Computer Architecture**.

EDUCATION

Huazhong University of Science and Technology (Average Score: 88.9/100) <i>B.E. in Computer Science</i>	Wuhan, Hubei, China Sept. 2018 - Jun. 2022
Huazhong University of Science and Technology (Average Score: 87.3/100) <i>M.S. in Computer Architecture</i>	Wuhan, Hubei, China Sept. 2022 - Jun. 2025

RESEARCH EXPERIENCE

A hybrid index structure for memory systems <i>Wuhan, Huazhong University of Science and Technology</i>	Oct. 2022 - Apr. 2025
<ul style="list-style-type: none">• Introduced ALT-index, a novel hybrid index structure for concurrent memory systems.• ALT-index improved the performance by up to 1.9-2.3x compared with existing indexes.• Our paper is accepted by ICDE 2025.	
A resizing scheme for file systems <i>Wuhan, Huazhong University of Science and Technology</i>	Oct. 2023 - Dec. 2024
<ul style="list-style-type: none">• Designed a head shrinking scheme for flash-friendly file system.• Improved the resizing time from 60 to 15 minutes on average.	
Low latency metadata service for distributed file systems <i>Wuhan, Huazhong University of Science and Technology</i>	Mar. 2022 - Sept. 2022
<ul style="list-style-type: none">• Proposed Duplex, a high-performance metadata service with an index structure.• Improved the performance by up to $7.6 \times / 2.3 \times$ compared to existing solutions.• Our paper is accepted by ICCD 2023 as the best paper nominee.	

PUBLICATIONS

- **Yuxin Yang**, Fang Wang*, Mengya Lei, Peng Zhang, Dan Feng. ALT-index: A Hybrid Learned Index for Concurrent Memory Database Systems. In Proceedings of the International Conference on Data Engineering (**ICDE 2025**)
- Chao Dong, Fang Wang*, **Yuxin Yang**, Mengya Lei, Jianshun Zhang, Dan Feng. Low-Latency and Scalable Full-path Indexing Metadata Service for Distributed File Systems. In Proceedings of the International Conference on Computer Design (**ICCD 2023**) (**Best Paper Nomination**)

HONORS & AWARDS

Best Paper Nomination in ICCD 2023 Conference	Washington DC, USA
Glen Langdon fellowship from UCSC	Santa Cruz, CA, USA

TECHNICAL SKILLS

Programming Languages: C, C++, Python, Java
Development Tools: Git, CMake, VSCode
English Level: TOFEL(103)

EXTRACURRICULAR ACTIVITIES

- **Team captain** Badminton Team of Computer Science. Sept. 2021 - Now