

# Hengrui Wang

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## Education

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<b>Peking University, Yuanpei College</b> <b>B.S. in Integrated Science, Yuanpei College</b> Advisor: Tong Yang Research Topic: Probabilistic Data Structures	Beijing, China Sept 2017 - June 2021
<b>Minor in Economics, NSD</b>	Sept 2022 - June 2025
<b>Tsinghua University, Institute for Interdisciplinary Information Sciences</b> <b>Ph.D. in Computer Science</b> Advisor: Huanchen Zhang Research Topic: Database, Storage, and Machine Learning Systems	Beijing, China Sept 2021 - June 2026 (Expected)

## Professional Experience

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<b>Jiaqi Investment</b>	Quantitative Researcher Intern (HFT)	Jul 2025 – Sep 2025
<b>F Lab</b>	Quantitative Research Intern (Factor)	Feb 2025 – Jun 2025
<b>Tencent</b>	Machine Learning Research Intern	Jul 2020 – Sep 2020
<b>Shanghai Qi Zhi Institute</b>	Research Intern (Cloud DB)	Aug 2022 – Present

## Publications

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### Benefit-Aware Cache For LSM-Based Key-Value Store

Hengrui Wang, Jiaoyi Zhang, Huanchen Zhang  
SIGMOD 2026 In Submission

### Rethinking the Compaction Policies in LSM-Trees

Hengrui Wang, Jiansheng Qiu, Fangzhou Yuan, Huanchen Zhang  
Proceedings of the ACM on Management of Data (SIGMOD'25), June 2025

### GRF: A Global Range Filter for LSM-Trees with Shape Encoding

Hengrui Wang, Te Guo, Junzhao Yang, Huanchen Zhang  
Proceedings of the ACM on Management of Data (SIGMOD'24), June 2024

### PISketch: Finding Persistent and Infrequent Flows

Zhuochen Fan, Zhoujing Hu, Yuhan Wu, Jiarui Guo, Wenrui Liu, Tong Yang, Hengrui Wang, Yifei Xu, Steve Uhlig, Yaofeng Tu  
ACM SIGCOMM Workshop (FFSPIN) 2022

### Enhanced Machine Learning Sketches for Network Measurements

Hengrui Wang, Huiping Lin, Zheng Zhong, Tong Yang, Muhammad Shahzad  
Transactions on Computers 2022

## Teaching

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<b>Database System</b>	<b>Tsinghua University, Spring 2025</b>
<b>Introduction to Programming</b>	<b>Tsinghua University, Spring 2022</b>
<b>Data Structures in the Real World</b>	<b>Tsinghua University, Summer 2021</b>
<b>Algorithm Design and Analysis</b>	<b>Peking University, Spring 2021</b>

## Relevant Courses

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Convex Optimization, Probability and Statistics, Stochastic Processes, Deep Learning, Reinforcement Learning, Financial Economics