

FEIYU WANG

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EDUCATION

Peking University PhD in Computer Science and Technology, School of Computer Science	Beijing, China 2024.09 – Present
Peking University Master in Software Engineering, School of Software and Microelectronics	Beijing, China 2021.09 – 2024.07
Peking University Bachelor in Computer Science and Technology, Yuanpei College	Beijing, China 2017.09 – 2021.07
Peking University Double Degree in Economics, National School of Development	Beijing, China 2019.09 – 2021.07

RESEARCH INTERESTS

Advisor: [Prof. Tong Yang](#)

- Inference optimization for large language models.
- Low-bit quantization algorithms for LLMs.
- Sketching algorithms for data streams.

EXPERIENCE

Huawei 2012 Labs Research Intern	Beijing, China 2022.06 – 2024.06
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PUBLICATIONS

- Guoan Wang*, **Feiyu Wang***, Zongwei Lv, Yikun Zong, Tong Yang. HESTIA: A Hessian-Guided Differentiable Quantization-Aware Training Framework for Extremely Low-Bit LLMs. **arXiv**, 2026. (* co-first authors)
- **Feiyu Wang**, Xinyu Tan, Bokai Huang, Yihao Zhang, Guoan Wang, Peizhuang Cong, Tong Yang. Fairy2i: Training Complex LLMs from Real LLMs with All Parameters in $\{+/-1, +/-i\}$. **arXiv**, 2025.
- **Feiyu Wang**, Guoan Wang, Yihao Zhang, Shengfan Wang, Weitao Li, Bokai Huang, Shimao Chen, Zihan Jiang, Rui Xu, Tong Yang. iFairy: the First 2-bit Complex LLM with All Parameters in $\{+/-1, +/-i\}$. **arXiv**, 2025.
- Yuhan Wu, **Feiyu Wang**, Yifan Zhu, Zhuochen Fan, Zhiting Xiong, Tong Yang, Bin Cui. VisionEmbedder: Bit-Level-Compact Key-Value Storage with Constant Lookup, Rapid Updates, and Rare Failure. **IEEE ICDE**, 2024.
- Yuanpeng Li, **Feiyu Wang**, Xiang Yu, Yilong Yang, Kaicheng Yang, Tong Yang, Zhuo Ma, Bin Cui, Steve Uhlig. LadderFilter: Filtering Infrequent Items with Small Memory and Time Overhead. **ACM SIGMOD**, 2023.
- **Feiyu Wang**, Qizhi Chen, Yuanpeng Li, Tong Yang, Yaofeng Tu, Lian Yu, Bin Cui. JoinSketch: A Sketch Algorithm for Accurate and Unbiased Inner-Product Estimation. **ACM SIGMOD**, 2023.

HONORS & AWARDS

- Peking University Meritorious Student (2021–2022), 2022.12
- Peking University Meritorious Student (2019–2020), 2020.12
- Peking University Suzhou Industrial Park Scholarship (2019–2020), 2020.12

- Second Prize, Peking University Freshman Scholarship (2016–2017), 2017.12
- Peking University Social Work Award, 2023.11
- Second Prize, 30th Challenge Cup of Peking University, 2022.06
- Outstanding Graduate, Yuanpei College, Peking University, 2021.07

SKILLS

- English: CET-4 663, CET-6 551.
- Chinese Calligraphy: regular and running script