Yanpeng Yu

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▬ Introduction

I am a third-year PhD student at the department of computer science, Yale University, under the supervision of Professor Anurag Khandelwal and Professor Lin Zhong. My research interests include memory disaggregation, operating systems, distributed systems, and computer networks.

▬ Education

2024–2024	**Research Intern**, *NVIDIA Corporation*, USA.
2024–present	**Ph.D., Computer Science**, *Yale University*, USA.
2021–2024	**M.Sc., Computer Science**, *Yale University*, USA.
2017–2021	**B.Sc., Computer Science**, *Peking University*, China.

▬ Publications

2023 [in submission]**Yanpeng Yu**, Seung-seob Lee, Anurag Khandelwal, and Lin Zhong. GCS: Generalized cache coherence for efficient and scalable synchronization. *arXiv preprint arXiv:2301.02576*, 2023.

2023 Lei Zou, Fan Zhang, Yinnian Lin, and **Yanpeng yu**. An efficient data structure for dynamic graph on gpus. *IEEE Transactions on Knowledge and Data Engineering*, 2023.

2021 Fan Zhang, Lei Zou, and **Yanpeng Yu**. LPMA - an efficient data structure for dynamic graph on gpus. In *Proceedings of the 21-th Web Information Systems Engineering*, WISE '21, 2021.

2021 Seung-seob Lee, **Yanpeng Yu**, Yupeng Tang, Anurag Khandelwal, Lin Zhong, and Abhishek Bhattacharjee. MIND: In-network memory management for disaggregated data centers. In *Proceedings of the ACM SIGOPS 28th Symposium on Operating Systems Principles*, SOSP '21, 2021.

▬ Projects & Awards

2019 **GPU-based Triangle Counting Algorithm on Large Scale Graph**, 2019.
We achieved the 3-rd place in the China Computer Federation Big Data & Computing Intelligence Contest. Supervised by professor Lei Zou at Peking University.

2019 **FPGA-based CNN Accelerator**, 2019.
Supervised by professor Guangyu Sun at Peking University.

▬ Teaching

2023 **Teaching Assistant**, *CPSC 438/538 Big Data Systems: Trends & Challenges*, Yale University.

2022 **Teaching Assistant**, *CPSC 437 Introduction to Database Systems*, Yale University.