YANPENG YU

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EDUCATION

Yale University, New Haven, CT, USA 09/2021– 05/2026 (expected)
Ph.D. in Computer Science
Advisors: Profs. Anurag Khandelwal and Lin Zhong
Peking University, Beijing, China 09/2017 – 06/2021
B.S. in Computer Science
Exchange program: Stanford University, 2019 Summer

AREA OF EXPERTISE

- Computer systems, computer architectures, memory disaggregation, heterogeneous computing, cache coherence protocols, synchronization, programmable networks, system and architecture for ML

SELECTED PUBLICATIONS AND PREPRINTS

- **Yanpeng Yu,** Nicolai Oswald, and Anurag Khandelwal. CORD: Low-Latency, Bandwidth-Efficient and Scalable Release Consistency via Directory Ordering. *In Proceedings of the 52nd Annual International Symposium on Computer Architecture (ISCA), 2025.* 🏆 **Distinguished Artifact Award**
- **Yanpeng Yu,** Seung-seob Lee, Lin Zhong, and Anurag Khandelwal. GCS: Generalized Cache Coherence For Efficient Synchronization . *Under Review, 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 (TKDE), 2023.*
- 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), 2021.*

WORK EXPERIENCE

NVIDIA Corporation, Architecture Research Group, *Research Intern*, Santa Clara, CA 05/2025 – 08/2025
Mixture-of-Expert parallelization on mesh-based Network-on-Chip, supervised by Nicolai Oswald and David Nellans

NVIDIA Corporation, Architecture Research Group, *Research Intern*, Santa Clara, CA 05/2024 – 08/2024
High-performance and energy-efficient cache coherence protocols for CPU-GPU shared memory, supervised by Nicolai Oswald and David Nellans

AWARD

🏆 **Distinguished Artifact Award**, 52nd Annual International Symposium on Computer Architecture (ISCA) 2025

LEADERSHIP EXPERIENCE

Athena Student Leadership Council, Athena AI Institute, *Student Leader* 2024 – 2025

TEACHING EXPERIENCE

- Teaching Assistant, CPSC 438/538 Big Data Systems: Trends & Challenges, Yale University 2023 Fall
- Teaching Assistant, CPSC 437 Introduction to Database Systems, Yale University 2022 Fall