GUANZHOU HU

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EDUCATION

University of Wisconsin–Madison GPA: 4.00 / 4.00 *Aug 2020 - Present*
Ph.D. Candidate, ADSL, Computer Sciences *Madison, WI, USA*
- Advisors: Andrea Arpaci-Dusseau and Remzi Arpaci-Dusseau
- Research area: Distributed systems, Operating systems, Data storage & processing

Massachusetts Institute of Technology GPA: 4.00 / 4.00 *Sep 2019 - Jul 2020*
Special Student, Electrical Engineering & Computer Science *Cambridge, MA, USA*
- Honors: Overseas Study Scholarship (2019)

ShanghaiTech University GPA: 3.90 / 4.00 *Sep 2016 - Jul 2020*
B. Eng., Computer Science & Technology *Shanghai, China*
- Honors: President's Scholarship (2017, 2018), Dean's Scholarship (2019)

PUBLICATIONS

In subm. [Title fuzzed] A consensus protocol achieving remarkably strong read semantics. Guanzhou Hu et al.

In subm. [Title fuzzed] A replication protocol for an unaddressed type of workloads. Guanzhou Hu et al.

FAST '23 MadFS: Per-File Virtualization for Userspace Persistent Memory Filesystems.
S. Zhong, C. Ye, G. Hu, S. Qu, A. Arpaci-Dusseau, R. Arpaci-Dusseau, M. Swift.

OSDI '21 Dorylus: Affordable, Scalable, and Accurate GNN Training with Distributed CPUs and Serverless Threads.
J. Thorpe, Y. Qiao, J. Eyolfson, S. Teng, G. Hu, Z. Jia, J. Wei, K. Vora, R. Netravali, M. Kim, and G. Xu.

FAST '21 The Storage Hierarchy is Not a Hierarchy: Optimizing Caching on Modern Storage Devices with Orthus.
K. Wu, Z. Guo, G. Hu, K. Tu, R. Alagappan, R. Sen, K. Park, A. Arpaci-Dusseau, and R. Arpaci-Dusseau.

SC '20 BORA: A Bag Optimizer for Robotic Analysis.
J. Zhang, T. Xie, Y. Jing, Y. Song, G. Hu, S. Chen, and S. Yin.

Preprint A Unified and Practical Summary of Non-transactional Consistency Levels in Distributed Replication.
G. Hu, A. Arpaci-Dusseau, R. Arpaci-Dusseau. arXiv 2024.

Preprint Foreactor: Exploiting Storage I/O Parallelism with Explicit Speculation.
G. Hu, A. Arpaci-Dusseau, R. Arpaci-Dusseau. arXiv 2024.

Patent A Storage System Management Policy Based on Data Content Locality.
S. Yin and G. Hu. 2019. CN. Patent number ZL 2019 1 0499391.9, licensed November 25, 2022.

WORK EXPERIENCE

Applied Scientist Intern in Amazon S3 Team, Amazon Web Services *May 2024 - Aug 2024*
- Managers: James Bornholt, Andrew Warfield *Seattle, WA, USA*
- Topic: Cloud Storage Systems & Automated Reasoning

TEACHING EXPERIENCE

Teaching Assistant at UW–Madison *Aug 2020 - May 2021*
- Courses: Computer Architecture, Operating Systems *Madison, WI, USA*

Teaching Assistant at ShanghaiTech University *Mar 2018 - Apr 2019*
- Courses: Discrete Math., Computer Architecture, Operating Systems *Shanghai, China*

SERVICES

- ACM Student Member & ACM SIGOPS Member *Sep 2021 - Present*
- Information & Computation Journal Reviewer *Nov 2024*
- SOSP '24 Artifact Evaluation Committee *Sep 2024*
- OSDI '24 & USENIX ATC '24 Artifact Evaluation Committee *May 2024*
- FAST '22 External Reviewer *Oct 2021*

PRIZES & AWARDS

- Outstanding Research Award, CSST Program Summer Research Intern, UCLA *Sep 2019*
- Second Prize, ASC Supercomputing Competition (GeekPie_HPC team leader) *Mar 2019*

- Outstanding Teaching Assistant Award, ShanghaiTech University *Jan 2019*
- Meritorious Winner, Mathematical Contest in Modelling (MCM) *Apr 2018*

SKILLS

- Programming: System programming, Rust, Go, C/C++, Java, Python, Julia, x86 asm, SQL, TLA$^+$, Dafny
- General: Cloud computing & storage, ML pipeline, Systems/protocols design, Kernel development, Linux dev/ops