

GUANZHOU HU

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EDUCATION

University of Wisconsin–Madison Ph.D. Candidate, Computer Sciences <ul style="list-style-type: none">• Advisors: Andrea Arpaci-Dusseau and Remzi Arpaci-Dusseau• Research areas: Distributed storage systems, Replication protocols, Operating systems	GPA: 4.00 / 4.00	<i>Aug 2020 - Present Madison, WI, USA</i>
Massachusetts Institute of Technology Special Student, Electrical Engineering & Computer Science	GPA: 4.00 / 4.00	<i>Sep 2019 - Jul 2020 Cambridge, MA, USA</i>
ShanghaiTech University B. Eng., Computer Science & Technology <ul style="list-style-type: none">• Honors: President’s Scholarship (2017, 2018), Dean’s Scholarship (2019)	GPA: 3.90 / 4.00	<i>Sep 2016 - Jul 2020 Shanghai, China</i>

PUBLICATIONS

In subm.	[Title fuzzed] A replication protocol for a new, untreated type of workload. Guanzhou Hu et al.
FAST ’23	MadFS: Per-File Virtualization for Userspace Persistent Memory Filesystems. Shawn Zhong, Chenhao Ye, Guanzhou Hu , Suyan Qu, Andrea Arpaci-Dusseau, Remzi Arpaci-Dusseau, Michael Swift.
OSDI ’21	Dorylus: Affordable, Scalable, and Accurate GNN Training with Distributed CPU Servers and Serverless Threads. John Thorpe, Yifan Qiao, Jonathan Eyolfson, Shen Teng, Guanzhou Hu , Zhihao Jia, Jinliang Wei, Keval Vora, Ravi Netravali, Miryung Kim, and Guoqing Harry Xu.
FAST ’21	The Storage Hierarchy is Not a Hierarchy: Optimizing Caching on Modern Storage Devices with Orthus. Kan Wu, Zhihan Guo, Guanzhou Hu , Kaiwei Tu, Ramnatthan Alagappan, Rathijit Sen, Kwanghyun Park, Andrea C. Arpaci-Dusseau, and Remzi H. Arpaci-Dusseau.
SC ’20	BORA: A Bag Optimizer for Robotic Analysis. Jian Zhang, Tao Xie, Yuzhuo Jing, Yanjie Song, Guanzhou Hu , Si Chen, and Shu Yin.
Patent ’19	A Storage System Management Policy Based on Data Content Locality. Yin, Shu. and Hu, Guanzhou . 2019. CN. Patent number ZL 2019 1 0499391.9, licensed November 25, 2022.
Preprint	A Unified, Practical, and Understandable Summary of Non-transactional Consistency Levels in Distributed Replication. Guanzhou Hu , Andrea Arpaci-Dusseau, Remzi Arpaci-Dusseau. arXiv 2024.
Preprint	Foreactor: Exploiting Storage I/O Parallelism with Explicit Speculation. Guanzhou Hu , Andrea Arpaci-Dusseau, Remzi Arpaci-Dusseau. arXiv 2024.

WORK EXPERIENCE

Applied Scientist Intern in Cloud Storage Systems & Automated Reasoning Amazon S3 Team, Amazon Web Services	Manager: James Bornholt	<i>May 2024 - Aug 2024 Seattle, WA, USA</i>
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TEACHING EXPERIENCE

Teaching Assistant in Operating Syst. & Computer Arch. Department of Computer Sciences, UW–Madison	<i>Aug 2020 - May 2021 Madison, WI, USA</i>
Teaching Assistant in Operating Syst., Computer Arch., & Discrete Math. School of Information Science & Technology, ShanghaiTech University	<i>Mar 2018 - Apr 2019 Shanghai, China</i>

SERVICES

• SOSP ’24 Artifact Evaluation Committee	<i>Sep 2024</i>
• OSDI ’24 & ATC ’24 Artifact Evaluation Committee	<i>May 2024</i>
• FAST ’22 External Reviewer	<i>Oct 2021</i>

PRIZES & AWARDS

• ACM Student Member & ACM SIGOPS Member	<i>Sep 2021 - Present</i>
• Outstanding Research Award, CSST Program Summer Research Intern, UCLA	<i>Sep 2019</i>

- 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 modeling, Kernel development, Linux dev/ops