

GUANZHOU HU

guanzhou.hu@wisc.edu ◇ <https://josehu.com>

EDUCATION

University of Wisconsin–Madison Ph.D. Candidate, Computer Sciences • 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 • 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.	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	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.

ONGOING PROJECTS

Modernizing Replication Protocols for the Cloud , Project Leader	<i>Sep 2022 - Present</i>
• Propose, design, implement, and evaluate new consensus and replication protocols to tackle new challenges. • Design and implement <i>Summerset</i> , a distributed and protocol-generic key-value store written in async Rust.	

TEACHING EXPERIENCE

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

PRIZES & AWARDS

• Outstanding Research Award, CSST Program Research Intern, UCLA	<i>Sep 2019</i>
• Second Prize, ASC Supercomputing Competition (GeekPie_HPC team leader)	<i>Mar 2019</i>
• Outstanding Teaching Assistant Award, ShanghaiTech University	<i>Jan 2019</i>
• Meritorious Winner, Mathematical Contest in Modelling (MCM)	<i>Apr 2018</i>

SERVICES

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

SKILLS

- Programming: Systems programming, Rust, C/C++, Go, Java, SQL, Python, Julia, Shell scripts, x86 asm
- Others: Systems modeling, Kernel development, Linux dev/ops, Cloud platforms, ML pipeline, TLA⁺, Dafny