

# GUANZHOU HU

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## EDUCATION

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

## PUBLICATIONS

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- 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.
- Preprint** Foreactor: Exploiting Storage I/O Parallelism with Explicit Speculation. [Guanzhou Hu](#), Andrea Arpaci-Dusseau, Remzi Arpaci-Dusseau.

## WORK EXPERIENCE

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

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

## SERVICES

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| • 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

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|--|-----------------|
| • Outstanding Research Award, CSST Program Summer 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
- Meritorious Winner, Mathematical Contest in Modelling (MCM)

*Jan 2019*

*Apr 2018*

## **SKILLS**

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- 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<sup>+</sup>, Dafny