

# GUANZHOU HU

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## EDUCATION

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<b>University of Wisconsin–Madison</b> Ph.D. Candidate, ADSL, Computer Sciences	GPA: 4.00 / 4.00	<i>Aug 2020 - Present</i> <i>Madison, WI, USA</i>
<ul style="list-style-type: none"><li>Advisors: Andrea Arpaci-Dusseau and Remzi Arpaci-Dusseau</li><li>Research area: Distributed systems, Replication, Operating systems, Data storage &amp; processing</li></ul>		
<b>Massachusetts Institute of Technology</b> Special Student, Electrical Engineering & Computer Science	GPA: 4.00 / 4.00	<i>Sep 2019 - Jul 2020</i> <i>Cambridge, MA, USA</i>
<ul style="list-style-type: none"><li>Honors: Overseas Study Scholarship (2019)</li></ul>		
<b>ShanghaiTech University</b> B. Eng., Computer Science & Technology	GPA: 3.90 / 4.00	<i>Sep 2016 - Jul 2020</i> <i>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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<b>In subm.</b>	[Title fuzzed] A consensus protocol achieving remarkably strong read semantics. <a href="#">Guanzhou Hu</a> et al.
<b>In subm.</b>	[Title fuzzed] A replication protocol for an unaddressed type of workloads. <a href="#">Guanzhou Hu</a> et al.
<b>FAST ’23</b>	MadFS: Per-File Virtualization for Userspace Persistent Memory Filesystems. S. Zhong, C. Ye, <a href="#">G. Hu</a> , S. Qu, A. Arpaci-Dusseau, R. Arpaci-Dusseau, M. Swift.
<b>OSDI ’21</b>	Dorylus: Affordable, Scalable, and Accurate GNN Training with Distributed CPUs and Serverless Threads. J. Thorpe, Y. Qiao, J. Eyolfson, S. Teng, <a href="#">G. Hu</a> , Z. Jia, J. Wei, K. Vora, R. Netravali, M. Kim, and G. Xu.
<b>FAST ’21</b>	The Storage Hierarchy is Not a Hierarchy: Optimizing Caching on Modern Storage Devices with Orthus. K. Wu, Z. Guo, <a href="#">G. Hu</a> , K. Tu, R. Alagappan, R. Sen, K. Park, A. Arpaci-Dusseau, and R. Arpaci-Dusseau.
<b>SC ’20</b>	BORA: A Bag Optimizer for Robotic Analysis. J. Zhang, T. Xie, Y. Jing, Y. Song, <a href="#">G. Hu</a> , S. Chen, and S. Yin.
<b>Preprint</b>	A Unified and Practical Summary of Non-transactional Consistency Levels in Distributed Replication. <a href="#">G. Hu</a> , A. Arpaci-Dusseau, R. Arpaci-Dusseau. arXiv 2024.
<b>Preprint</b>	Foreactor: Exploiting Storage I/O Parallelism with Explicit Speculation. <a href="#">G. Hu</a> , A. Arpaci-Dusseau, R. Arpaci-Dusseau. arXiv 2024.
<b>Patent</b>	A Storage System Management Policy Based on Data Content Locality. S. Yin and <a href="#">G. Hu</a> . 2019. CN. Patent number ZL 2019 1 0499391.9, licensed November 25, 2022.

## WORK EXPERIENCE

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<b>Applied Scientist Intern</b> in Amazon S3 Team, Amazon Web Services	<i>May 2024 - Aug 2024</i> <i>Seattle, WA, USA</i>
<ul style="list-style-type: none"><li>Managers: James Bornholt, Andrew Warfield</li><li>Topic: Cloud Storage Systems &amp; Automated Reasoning</li></ul>	

## TEACHING EXPERIENCE

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<b>Teaching Assistant</b> at UW–Madison	<i>Aug 2020 - May 2021</i> <i>Madison, WI, USA</i>
<ul style="list-style-type: none"><li>Courses: Computer Architecture, Operating Systems</li></ul>	
<b>Teaching Assistant</b> at ShanghaiTech University	<i>Mar 2018 - Apr 2019</i> <i>Shanghai, China</i>
<ul style="list-style-type: none"><li>Courses: Discrete Math., Computer Architecture, Operating Systems</li></ul>	

## SERVICES

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<ul style="list-style-type: none"><li>ACM Student Member &amp; ACM SIGOPS Member</li></ul>	<i>Sep 2021 - Present</i>
<ul style="list-style-type: none"><li>FAST ’25 Artifact Evaluation Committee</li></ul>	<i>Dec 2024</i>
<ul style="list-style-type: none"><li>Information &amp; Computation Journal Reviewer</li></ul>	<i>Nov 2024</i>
<ul style="list-style-type: none"><li>SOSP ’24 Artifact Evaluation Committee</li></ul>	<i>Sep 2024</i>
<ul style="list-style-type: none"><li>OSDI ’24 &amp; USENIX ATC ’24 Artifact Evaluation Committee</li></ul>	<i>May 2024</i>
<ul style="list-style-type: none"><li>FAST ’22 External Reviewer</li></ul>	<i>Oct 2021</i>

## SKILLS

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