AISHWARYA GANESAN
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CURRENT EMPLOYMENT

☐ University of Illinois Urbana-Champaign Assistant Professor	Urbana, IL Aug '22 –
□ VMware Research Affiliated Researcher	Feв '23 -
Education	
☐ University of Wisconsin – Madison Ph.D. in Computer Sciences, Advisors: Andrea Arpaci-Dusseau and Remzi Arpaci-Dusseau	2015-2020
☐ Indian Institute of Technology Bombay M.Tech in Computer Science and Engineering	2011-2013
☐ Coimbatore Institute of Technology, Anna University B.Tech in Information Technology	2006-2010
Honors & Awards	
☐ IBM Illinois Discovery Accelerator (IIDA) Institute Grant for \$480K (w/ Indranil Gupta, Kenton McHenry, Luigi Marini, Ram Alagappan)	2023
\Box List of Teachers Ranked as Excellent By Their Students for Spring 2023	2023
\square List of Teachers Ranked as Outstanding By Their Students for Fall 2022	2022
☐ Selected for Rising Stars in EECS '21	2021
☐ Graduate Student Instructor Award For teaching graduate-level distributed systems at UW Madison	2020
☐ FAST Best Paper Award For our paper Consistency-Aware Durability	2020
☐ Facebook Ph.D., Fellowship Fellowship in distributed systems; funding towards tuition, stipend, and travel.	2019-2020
☐ Facebook Distributed Systems Research Award for \$50,000 Jointly with Ramnatthan Alagappan, Andrea Arpaci-Dusseau, and Remzi Arpaci-Dusseau	2020
☐ CS Department Golden Brick Award For leading diversity efforts as president of UW Madison chapter of ACM-W	2019
☐ Selected for Rising Stars in EECS '18	2018
☐ FAST Best Paper Award For our paper Protocol-Aware Recovery	2018
\square Grace Hopper Celebration of Women in Computing Scholarship	201
☐ FAST Best Paper Award Nominee For our paper <i>Redundancy Does Not Imply Fault-Tolerance</i>	2017
\square Departmental Research Fellowship, University of Wisconsin – Madison	2015
☐ Department Gold Medal For ranking first during undergraduate studies	2010
☐ Tata Consultancy Services endowed Best Student Award	2010

Bold names: My students and me	
[1] Xuhao Luo , Ramnatthan Alagappan, and Aishwarya Ganesan . <i>SplitFT: Fault Tolerance for Disaggregated Datacenters via Remote Memory Logging</i> . In Proceedings of the European chapter of ACM SIGOPS, Athens, Greece. April 2024 (To appear). (Acceptance rate: 39/244 = 16%)	EuroSys '24
[2] Xudong Sun, Wenqing Luo, Tyler Gu, Aishwarya Ganesan , Ramnatthan Alagappan, Michael Gasch, Lalith Suresh, and Tianyin Xu. <i>Automatic Reliability Testing For Cluster Management Controllers</i> . In Proceedings of the 16th USENIX Symposium on Operating Systems Design and Implementation, July 2022. (Acceptance rate: 49/253 = 19.4%)	Osdi '22
[3] Aishwarya Ganesan , Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. <i>Exploiting Nil-Externality for Fast Replicated Storage</i> . In Proceedings of the 28th ACM Symposium on Operating Systems Principles, October 2021. (Acceptance rate: 54/348 = 15.5%) Invited for fast-tracked publication in ACM Transactions on Storage	Sosp '21
[4] Yifan Dai, Yien Xu, Aishwarya Ganesan, Ramnatthan Alagappan, Brian Kroth, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. From Wisckey to Bourbon: A Learned Index for Log-structured Merge Trees. In Proceedings of the 14th USENIX Conference on Operating Systems Design and Implementation, 2020. (Acceptance rate: 70/398 = 17.6%) Invited to Workshop on Learned Algorithms, Data Structures, and Instance-Optimized Systems @ VLDB '21	Osdi '20
[5] Aishwarya Ganesan , Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. <i>Strong and Efficient Consistency with Consistency-aware Durability.</i> In Proceedings of the 18th Conference on File and Storage Technologies, February 2020. (Acceptance rate: 23/138 = 16.7%) **Best Paper Award** *Invited for fast-tracked publication in ACM Transactions on Storage**	FAST '20
[6] Iyswarya Narayanan, Aishwarya Ganesan , Anirudh Badam, Sriram Govindan, Bikash Sharma, Anand Sivasubramaniam. <i>Getting More Performance with Polymorphism from Emerging Memory Technologies</i> . In Proceedings of the 12th ACM International Conference on Systems and Storage, June 2019. (Acceptance rate: 16/44 = 36.4%)	Systor '19
[7] Ramnatthan Alagappan, Aishwarya Ganesan , Jing Liu, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. <i>Fault Tolerance, Fast and Slow: Exploiting Failure Asynchrony in Distributed Systems</i> . In Proceedings of the 13th USENIX Conference on Operating Systems Design and Implementation, 2018. (Acceptance rate: 47/257 = 18.3%)	Osdi '18
[8] Ramnatthan Alagappan, Aishwarya Ganesan , Eric Lee, Aws Albarghouthi, Vijay Chidambaram, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. <i>Protocol-Aware Recovery for Consensus-Based Storage</i> . In Proceedings of the 16th USENIX Conference on File and Storage Technologies, February 2018. (Acceptance rate: 23/140 = 16.4%) **Best Paper Award** *Best of the Rest at ATC '19 *Invited for fast-tracked publication in ACM Transactions on Storage PAR/CTRL adopted by a finanical database startup (TigerBeetle)	Fast '18

[9] Aishwarya Ganesan, Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. **FAST '17** Arpaci-Dusseau. Redundancy Does Not Imply Fault Tolerance: Analysis of Distributed Storage Reactions to Single Errors and Corruptions. In Proceedings of the 15th USENIX Conference on File and Storage Technologies, 2017. (Acceptance rate: 28/118 = 23.7%) Best Paper Nominee Invited for fast-tracked publication in ACM Transactions on Storage Invited to USENIX; login: [10] Ramnatthan Alagappan, Aishwarya Ganesan, Yuvraj Patel, Thanumalayan Sankara-Osdi '16 narayana Pillai, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Correlated Crash Vulnerabilities. In Proceedings of the 12th USENIX Conference on Operating Systems Design and Implementation, November 2016. (Acceptance rate: 47/267 = 17.6%) МовіСом '14 [11] Swati Rallapalli, Aishwarya Ganesan, Krishna Chintalapudi, Venkat Padmanabhan, Lili Oiu. Enabling Physical Analytics in Retail Stores using Smart Glasses. In Proceedings of the 20th Annual International Conference on Mobile Computing and Networking, September 2014. (Acceptance rate: 36/220 = 16.4%) PEER-REVIEWED JOURNAL AND WORKSHOP PUBLICATIONS & DEMOS [1] Aishwarya Ganesan, Ramnatthan Alagappan, Anthony Rebello, Andrea C. Arpaci-Acm Tos '22 Dusseau, Remzi H. Arpaci-Dusseau. Exploiting Nil-External Interfaces for Fast Replicated Storage. ACM Transactions on Storage (TOS), May 2022. (Fast-tracked) [2] Xudong Sun, Lalith Suresh, Aishwarya Ganesan, Ramnatthan Alagappan, Michael Gasch, **HOTOS '21** Lilia Tang, and Tianyin Xu. Reasoning About Modern Datacenter Infrastructures using Partial Histories. In Proceedings of the Workshop on Hot Topics in Operating Systems, June 2021. [3] Aishwarya Ganesan, Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. Acm Tos '21 Arpaci-Dusseau. Strong and Efficient Consistency with Consistency-aware Durability. ACM Transactions on Storage (TOS), 17(1), January 2021. (Fast-tracked) [4] Ramnatthan Alagappan, Aishwarya Ganesan, Eric Lee, Aws Albarghouthi, Vijay Chi-Acm Tos '18 dambaram, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Protocol-Aware Recovery for Consensus-Based Distributed Storage. ACM Transactions on Storage (TOS), 14(3), October 2018. (Fast-tracked) [5] Aishwarya Ganesan, Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. Acm Tos '18 Arpaci-Dusseau. Redundancy Does Not Imply Fault Tolerance: Analysis of Distributed Storage Reactions to File-System Faults. ACM Transactions on Storage (TOS), 13(3), September 2017. (Fast-tracked) [6] Aishwarya Ganesan, Swati Rallapalli, Krishna Chintalapudi, Venkat Padmanabhan, Lili МовіСом '14 Qiu. Demo: Tracking User Browsing on a Demo Floor, In Proceedings of the 20th Annual International Conference on Mobile Computing and Networking, September 2014. OTHER PUBLICATIONS [1] Aishwarya Ganesan, Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. ;LOGIN: Arpaci-Dusseau. Redundancy Does Not Imply Fault Tolerance: Analysis of Distributed Storage Reactions to Single Errors and Corruptions. ;login: The USENIX Magazine, 42(2), Summer 2017. (Invited) [2] Rajalakshmi Nandakumar, Swati Rallapalli, Krishna Chintalapudi, Venkat Padmanabhan, TECH REPORT

Lili Qiu, **Aishwarya Ganesan**, Saikat Guha, Deepanker Aggarwal, Aakash Goenka. *Physical Analytics: A New Frontier for (Indoor) Location Research.* Microsoft Technical Report no.

MSR-TR-2013-107, October 2013.

Cove	rage On Research	
ПТ	The Morning Paper. Protocol-Aware Recovery for Consensus-Based Storage (link).	Feb 2018
\Box Z	DNet. Eliminating storage failures in the cloud (link).	Feb 2018
\Box T	The Morning Paper. Redundancy does not imply fault tolerance (link).	Mar 2017
	DHSR's Blog. Injecting Faults in Distributed Storage (link).	Mar 2017
\Box S	torageMojo. StorageMojo's Best Paper of FAST 2017 (link).	Mar 2017
Gran	NTS	
	BM Illinois Discovery Accelerator (IIDA) Institute Grant for \$480K (along with Indran Juigi Marini, Ram Alagappan)	nil Gupta, Kenton McHenry
	acebook Distributed Systems Research Award for \$50,000 (along with Ramnatthan A Dusseau, and Remzi Arpaci-Dusseau)	Alagappan, Andrea Arpaci-
Prio	r Work Experience	
	Mware Research Postdoctoral Researcher	Palo Alto, СА Ост '20 – Aug '22
R	Microsoft Research Research Intern, Systems Research Group Mentor: Anirudh Badam	Redmond, WA SUMMER '17
F	Microsoft Research Research Fellow, Mobility, Networks, and Systems Group Mentors: Krishna Chintalapudi and Venkat Padmanabhan	Bangalore, Indi Jul '13 – Apr '1
	U nited Online Software Development Limited Software Engineer	Hyderabad, Indi Jul '10 – Jun '1
GRAE	DUATE STUDENT ADVISING	
$\Box X$	Kuhao Luo (Ph.D. student, starting Fall 2022)	
□Н	Henry Zhu (Ph.D. student, starting Fall 2022)	
\square S	hreesha Bhat (Ph.D. student, starting Fall 2023)	
□ K	Ciran Hombal (Ph.D. student, starting Fall 2023)	
□ Ji	iyu Hu (Ph.D. student, starting Fall 2023)	
\Box C	Chaitanya Bhandari (MS student, starting Fall 2022)	
\square R	lamya Bygari (MS student, starting Fall 2023)	
	Venqing Luo (MS student, graduated Spring 2023. Thesis: Towards Application Fative Storage)	Recoverability Atop Cloud-
Отня	er Mentoring	
Y	(ifan Dai, Yien Xu (graduate student at UW Madison; Bourbon OSDI 2020 paper)	

 $\hfill\Box$ Yi Xu (graduate student at UCSD)

SERVICE

□ Chair	
Doctoral workshop at SOSP'23 Co-chair	2023
FAST '23 WiP/Poster Co-chair	2023
SOSP '21 AMA Co-chair	2021
Journal of Systems Research, Student Editorial Board Co-chair	2021
Founded and organized graduate student research symposium at UW Madison	2019
☐ Program Committee Member	
SOSP '24, Program Committee Member	2024
OSDI '24, Program Committee Member	2024
Eurosys '24 (Fall), Program Committee Member	2024
FAST '24, Program Committee Member	2024
Eurosys '24 (Spring), Program Committee Member	2024
APSys '23, Program Committee Member	2023
HotStorage '23, Program Committee Member	2023
NVMW '23, Program Committee Member	2023
SYSTOR '23, Program Committee Member	2023
OSDI '23, Program Committee Member	2023
SoCC '22, Program Committee Member	2022
HotStorage '22, Program Committee Member	2022
APSys '21, Program Committee Member	2021
SYSTOR '21, Program Committee Member	2021
HAOC '21 (co-organized with EuroSys '21), Program Committee Member	2021
EuroDW '21 (co-organized with EuroSys '21), Program Committee Member	2021
☐ External Reviewer and Shadow PC Member	
FAST, External Reviewer	2021
NVMW, External Reviewer	2020
ACM Transactions on Storage, Reviewer	2019
EuroSys, Shadow PC Member	2019
FAST, External Reviewer	2018
EuroSys, Contributor to PC Reviews	2017
OSDI, External Reviewer	2016
□ Outreach	
SOSP '21 Mentoring	2021
OSDI '21 Mentoring	2021
EuroDW '21 Mentoring	2021
President, W-ACM, UW Madison chapter of ACM's Women in Computing	2018-2019
UW Madison CS department outreach at Grace Hopper Conference career fair	2018
WACM Graduate Student Mentor (for women undergraduate and graduate students)	2017

Invited Talks and Presentations

	A Learned Index for Log-Structured Merge Trees	
	Practical Adoption Challenges of ML for Systems in Industry, co-located with MLSys '23. UT Austin	Spring '23 Spring '23
	Consistency and Performance in Distributed Storage Systems	
	Meta	Fall '22
П	Consistency and Performance in Distributed Storage	
	University of Waterloo	Jan '22
	Virginia Tech	Jan '22
	Pennsylvania State University	Feв '22
	Boston University (ECE)	Feв '22
	University of Virginia	Feв '22
	Purdue University	Feв '22
	University of Utah	Feв '22
	University of Toronto	Mar '22
	University of Illinois at Urbana-Champaign	Mar '22
	University of Washington	Mar '22
	University of Michigan	Mar '22
	Massachusetts Institute of Technology	Mar '22
	University of North Carolina at Chapel Hill	Mar '22
	University of Southern California	Mar '22
	University of California, Santa Cruz	Mar '22
	University of California, Irvine	Apr '22
	Exploiting Nil-Externality for Fast Replicated Storage	
	Talk at SOSP '21	Ост '21
П	From Wisckey to Bourbon: A Learned Index for Log-structured Merge Trees	
Ш	Invited talk at Workshop on Learned Algorithms, Data Structures, and Instance-Optimized	
	(co-organized with VLDB '21)	Aug '21
	(co-organized with VLDB 21)	AUG 21
	Consistency and Performance in Distributed Storage Systems	
	Invited talk at University of Waterloo	Jun '21
	Invited talk at Rutgers University	Ост '20
	Invited talk at VMware Research	Jun '20
	Strong and Efficient Consistency with Consistency-aware Durability	
	Microsoft	Aug '20
	VMWare Tech Talk	Mar '20
	Talk and Poster at FAST	Feв '20
П	A Measure-then-Build Approach to Distributed Storage Reliability	
	Talk at Facebook Research Women in Research Lean In event	Sep '19
	Poster at Facebook Research Fellowship and Emerging Scholars Summit	SEP '19
	Poster at Rising Stars in EECS, MIT	Ост '18
Ш	Fault Analysis of Scalable Distributed Storage	App !17
	Talk at SCI Labs Kick-off Meeting	Apr '17
	Redundancy Does Not Imply Fault Tolerance	• •
	Invited talk at Hydra '20	Jul '20
	Poster at SCI Labs Kick-off Meeting	Apr '17
	Talk and Poster at FAST Invited Poster at NetApp University Day	Mar '17 Feb '17
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Nov '17
Jun '16
Jan '15
Jan '15
Sep '14