AISHWARYA GANESAN
Website: https://aishwaryaganesan.github.io/ Email: aganesn2@illinois.edu

CURRENT EMPLOYMENT

☐ University of Illinois Urbana-Champaign Assistant Professor	Urbana, IL Aug '22 –
Post Ph.D. Work Experience	
□ VMware Research Consulting: Affiliated Researcher	Remote Feв '23 – Ост '24
□ VMware Research Postdoctoral Researcher	Palo Alto, CA Ост '20 – Aug '22
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	
□ SOSP'24 Best Paper Award For our paper LazyLog	2024
□ NSF CAREER Award (Title: Storage-Aware Fault Tolerance; \$699K)	2024
☐ IBM Illinois Discovery Accelerator (IIDA) Institute Grant for \$480K (w/ Indranil Gupta, Kenton McHenry, Luigi Marini, Ram Alagappan)	2023
\square 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 <i>Consistency-Aware Durability</i>	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 <i>Protocol-Aware Recovery</i>	2018

2017
2017
2015
2010
2010
2010
SOSP '24
EuroSys '24
FAST '24
Оѕрі '22
Sosp '21
Оѕы '20
FAST '20

[8] 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
[9] 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%)	Оѕрі '18
[10] Ramnatthan Alagappan, Aishwarya Ganesan, Eric Lee, Aws Albarghouthi, Vijay Chidambaram, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Protocol-Aware Recovery for Consensus-Based Storage. 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
[11] Aishwarya Ganesan, Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. 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:	FAST '17
[12] Ramnatthan Alagappan, Aishwarya Ganesan , Yuvraj Patel, Thanumalayan Sankaranarayana Pillai, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. <i>Correlated Crash Vulnerabilities</i> . In Proceedings of the 12th USENIX Conference on Operating Systems Design and Implementation, November 2016. (Acceptance rate: 47/267 = 17.6%)	Оѕрі '16
[13] Swati Rallapalli, Aishwarya Ganesan , Krishna Chintalapudi, Venkat Padmanabhan, Lili Qiu. <i>Enabling Physical Analytics in Retail Stores using Smart Glasses</i> . In Proceedings of the 20th Annual International Conference on Mobile Computing and Networking, September 2014. (Acceptance rate: 36/220 = 16.4%)	МовіСом '14
PEER-REVIEWED JOURNAL AND WORKSHOP PUBLICATIONS & DEMOS	
[1] Aishwarya Ganesan , Ramnatthan Alagappan, Anthony Rebello, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. <i>Exploiting Nil-External Interfaces for Fast Replicated Storage</i> . ACM Transactions on Storage (TOS), May 2022. (<i>Fast-tracked</i>)	Acm Tos '22
[2] Xudong Sun, Lalith Suresh, Aishwarya Ganesan , Ramnatthan Alagappan, Michael Gasch, Lilia Tang, and Tianyin Xu. <i>Reasoning About Modern Datacenter Infrastructures using Partial Histories</i> . In Proceedings of the Workshop on Hot Topics in Operating Systems, June 2021.	НотОS '21
[3] Aishwarya Ganesan , Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. <i>Strong and Efficient Consistency with Consistency-aware Durability.</i> ACM Transactions on Storage (TOS), 17(1), January 2021. (<i>Fast-tracked</i>)	Acm Tos '21
[4] 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 Distributed Storage</i> . ACM Transactions on Storage (TOS), 14(3), October 2018. (<i>Fast-tracked</i>)	Acm Tos '18

[5] Aishwarya Ganesan , Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. <i>Redundancy Does Not Imply Fault Tolerance: Analysis of Distributed Storage Reactions to File-System Faults</i> . ACM Transactions on Storage (TOS), 13(3), September 2017. (<i>Fast-tracked</i>)	Acm Tos '18
[6] Aishwarya Ganesan , Swati Rallapalli, Krishna Chintalapudi, Venkat Padmanabhan, Lili Qiu. <i>Demo: Tracking User Browsing on a Demo Floor</i> , In Proceedings of the 20th Annual International Conference on Mobile Computing and Networking, September 2014.	МовіСом '14
Other Publications	
[1] Xudong Sun, Wenqing Luo, Jiawei Tyler Gu, Aishwarya Ganesan , Ramnatthan Alagappan, Michael Gasch, Lalith Suresh, Tianyin Xu. Sieve: Chaos Testing for Kubernetes Controllers.; login: The USENIX Magazine. 2024. (Invited)	;LOGIN:
[2] Aishwarya Ganesan , Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. <i>Redundancy Does Not Imply Fault Tolerance: Analysis of Distributed Storage Reactions to Single Errors and Corruptions.</i> ; login: The USENIX Magazine, 42(2), Summer 2017. (<i>Invited</i>)	;LOGIN:
[3] Rajalakshmi Nandakumar, Swati Rallapalli, Krishna Chintalapudi, Venkat Padmanabhan, Lili Qiu, Aishwarya Ganesan , Saikat Guha, Deepanker Aggarwal, Aakash Goenka. <i>Physical Analytics: A New Frontier for (Indoor) Location Research.</i> Microsoft Technical Report no. MSR-TR-2013-107, October 2013.	TECH REPORT
Grants	
□ NSF CAREER Award for \$699K (Title: Storage-Aware Fault Tolerance)	
$\hfill\square$ IBM Illinois Discovery Accelerator (IIDA) Institute Grant for \$480K (along with Indranil Gupta Luigi Marini, Ram Alagappan)	, Kenton McHenry,
$\hfill\Box$ Facebook Distributed Systems Research Award for \$50,000 (along with Ramnatthan Alagappe Dusseau, and Remzi Arpaci-Dusseau)	an, Andrea Arpaci-
Coverage On Research	
$\hfill\Box$ The Morning Paper. Protocol-Aware Recovery for Consensus-Based Storage (link).	Feb 2018
☐ ZDNet. Eliminating storage failures in the cloud (link).	Feb 2018
\square The Morning Paper. Redundancy does not imply fault tolerance (link).	Mar 2017
\square DHSR's Blog. Injecting Faults in Distributed Storage (link).	Mar 2017
☐ StorageMojo. StorageMojo's Best Paper of FAST 2017 (link).	Mar 2017
Other Work Experience	
☐ Microsoft Research	Redmond, WA
Research Intern, Systems Research Group Mentor: Anirudh Badam	Summer '17
☐ Microsoft Research	Bangalore, India
Research Fellow, Mobility, Networks, and Systems Group Mentors: Krishna Chintalapudi and Venkat Padmanabhan	Jul '13 – Apr '15
☐ United Online Software Development Limited Software Engineer	Hyderabad, India JuL '10 – Jun '11

GRADUATE STUDENT ADVISING

	co-advised with Ram Alagappan co-advised with Ram Alagappan and Tianyin Xu	
	Xuhao Luo* (Ph.D. student, since Spring 2023)	
	Henry Zhu* (Ph.D. student, since Fall 2022)	
	Shreesha Bhat* (Ph.D. student, since Fall 2023)	
	Kiran Hombal* (Ph.D. student, since Fall 2023)	
	Jiyu Hu* (Ph.D. student, since Fall 2023)	
	Seokjoo Cho* (Ph.D. student, since Fall 2024)	
	Emaan Atique* (Ph.D. student, since Spring 2025)	
	Chaitanya Bhandari* (MS student, graduating Spring 2024. <i>Thesis: Replication-Aware File-System Crastency.</i>)	h Consis
	Ramya Bygari* (MS student, graduating Spring 2024. Thesis: Exploring Remote Memory for Buffer Cache E A Preliminary Investigation.)	Extension
	Wenqing Luo ^{\$} (MS student, graduated Spring 2023. <i>Thesis: Towards Application Recoverability Atop Clos Storage</i>)	ud-native
От	HER MENTORING	
	Yifan Dai, Yien Xu (graduate student at UW Madison; Bourbon OSDI 2020 paper)	
	Yi Xu (graduate student at UCSD)	
Sei	RVICE	
	Departmental Service	
	Graduate study committee	2025
	Graduate awards committee	2024
	Recruiting committee	2023
Ш	Leadership Roles	
	Mentoring program at FAST'25 Co-chair	2025
	Co-organized Women in Systems meetup at SOSP 24 ATC External Review Committee Co-chair	2024 2024
	PACMI Workshop Co-chair at SOSP '24	2024
	Poster session Co-chair at OSDI '24	2024
	Mentoring program at FAST'24 Co-chair	2024
	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 '25, Program Committee Member	2025
HotOS '25, Program Committee Member	2025
ATC '25, Program Committee Member	2025
Eurosys '25 (Fall), Program Committee Member	2025
FAST '25, Program Committee Member	2025
SOSP '24, Program Committee Member	2024
Doctoral workshop at SOSP'24, Program Committee Member	2024
OSDI '24, Program Committee Member	2024
ATC '24, Program Committee Member	2024
Eurosys '24 (Fall), Program Committee Member	2024
FAST '24, Program Committee Member	2024
MSST '24, Program Committee Member	2024
HotStorage '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
SRC PACT '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	
EuroDW '21 (co-organized with EuroSys '21), Program Committee Memb	per 2021
☐ External Reviewer and Shadow PC Member	
ACM Transactions on Storage, Reviewer	2024
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 Computin	
UW Madison CS department outreach at Grace Hopper Conference cared	
WACM Graduate Student Mentor (for women undergraduate and gradua	

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
	Consistency and Performance in Distributed Storage	
	University of Waterloo	Jan '22
	Virginia Tech	Jan '22
	Pennsylvania State University	FEB '22
	Boston University (ECE)	FEB '22
	University of Virginia	FEB '22
	Purdue University	FEB '22
	University of Utah	FEB '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	
ш	Talk at SOSP '21	Ост '21
	From Wisckey to Bourbon: A Learned Index for Log-structured Merge Trees Invited talk at Workshop on Learned Algorithms, Data Structures, and Instance-Optimized (co-organized with VLDB '21)	Aug '21
П	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	
ш	Microsoft	Aug '20
	VMWare Tech Talk	Mar '20
	Talk and Poster at FAST	Feв '20
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Ш	A Measure-then-Build Approach to Distributed Storage Reliability	0
	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
	Fault Analysis of Scalable Distributed Storage	
	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	Mar '17
	Invited Poster at NetApp University Day	Feв '17

Nov '17
Jun '16
Jan '15
Jan '15
Sep '14