RAMNATTHAN ALAGAPPAN

Assistant Professor Department of Computer Science University of Illinois Urbana-Champaign

Curriculum Vitae - June 5, 2025

Address 201 N Goodwin Ave, # 3122 Urbana, IL 61801 Website https://ramn.web.illinois.edu

GOOGLE SCHOLAR Link

Email ramn@illinois.edu

CURRENT APPOINTMENTS

Assistant Professor University of Illinois Urbana-Champaign	Aug 2022 – Current
Education	
Ph.D. in Computer Sciences University of Wisconsin – Madison Advisors: Andrea C. Arpaci-Dusseau and Remzi H. Arpaci-Dusseau Thesis: Protocol- and Situation-Aware Distributed Storage Systems	2019
M.S. in Computer Sciences University of Wisconsin – Madison	2018
B.Tech in Information Technology Coimbatore Institute of Technology, Anna University, India	2010

Honors & Awards

Research	Best Paper Award at SOSP (LazyLog) NetApp Faculty Fellowship NSF CAREER Award Best Paper Award at FAST (CAD) UW CS Graduate Student Research Award - Best Thesis - Honorable Mention Best Paper Award at FAST (PAR/CTRL) Best Paper Award at FAST (CCFS) Best Paper Nominee at FAST (Redundancy ≠ FT)	2024 2024 2023 2020 2019 2018 2017 2017
Teaching	UIUC List of Teachers Ranked as Outstanding (for CS598 - Storage Systems) UIUC List of Teachers Ranked as Excellent (for CS598 - Storage Systems) UIUC List of Teachers Ranked as Excellent (for CS598 - Storage Systems) CS 739 ranked 1st among all courses in student evaluations Nominated for SACM CoW Teaching Award for CS 739	Fall 2023 Spring 2023 Fall 2022 2020 2020
Service	Distinguished Reviewer at HotStorage Best Shadow PC Reviewer at EuroSys	2021 2019
Grants	NetApp Faculty Fellowship NSF Career Award \$699, 655 Co-PI IIDAI IBM grant \$480,000 Microsoft Azure Credits Research Award for \$50,000 Facebook Distributed Systems Research Award for \$50,000 CS Alumni Scholarship, University of Wisconsin – Madison	2023 2023 2023 2019 2019 2013

PEER-REVIEWED PUBLICATIONS

Post PhD Work:

- OSDI '25 32. Shreesha Bhat, Tony Hong, Xuhao Luo, Jiyu Hu, Aishwarya Ganesan, Ramnatthan Alagappan. Low End-to-End Latency atop a Speculative Shared Log with Fix-Ante Ordering. In Proceedings of the 19th USENIX Symposium on Operating Systems Design and Implementation, 2025. Acceptance rate: 53/327 = 16.2%
- 31. Xuhao Luo, Shreesha Bhat, Jiyu Hu, **Ramnatthan Alagappan**, Aishwarya Ganesan. *LazyLog:*A New Shared Log Abstraction for Low-Latency Applications. In Proceedings of the 30th ACM Symposium on Operating Systems Principles, 2024. Acceptance rate: 43/245 = 17.6%

 Best Paper Award

 Invited to Transactions on Computer Systems
- ;login: 30. Xudong Sun, Wenqing Luo, Tyler Gu, Aishwarya Ganesan, Ramnatthan Alagappan, Michael Gasch, Lalith Suresh, and Tianyin Xu. Sieve: Chaos Testing for Kubernetes Controllers.; login: The USENIX Magazine, November 2024.

 Invited
- **FAST '24 29.** Yi Xu*, Henry Zhu*, Prashant Pandey, Alex Conway, Rob Johnson, Aishwarya Ganesan, Ramnatthan Alagappan. *IONIA: Efficient Replication for Disk-based KV Stores.* * = equal contribution. (To Appear) In Proceedings of the 22nd USENIX Conference on File and Storage Technologies, 2024. Acceptance rate: 22/123 = 17.8%
- **EuroSys '24 28.** Xuhao Luo, **Ramnatthan Alagappan**, Aishwarya Ganesan. *SplitFT: Fault Tolerance for Disaggregated Datacenters via Remote Memory Logging*. In Proceedings of the European chapter of ACM SIGOPS, Athens, Greece. April 2024. Acceptance rate: 71/484 = 14.7%
- CACM 27. Ramnatthan Alagappan, Peter Alvaro. Crash Consistency. Communications of the ACM Vol. 66 No. 1, January 2023.
 Invited
- TOS '22 26. Aishwarya Ganesan, Ramnatthan Alagappan, Anthony Rebello, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Exploiting Nil-External Interfaces for Fast Replicated Storage. ACM Transactions on Storage (TOS), May 2022.
 Fast-tracked
- OSDI '22 25. Xudong Sun, Wenqing Luo, Tyler Gu, Aishwarya Ganesan, Ramnatthan Alagappan, Michael Gasch, Lalith Suresh, and Tianyin Xu. Automatic Reliability Testing For Cluster Management Controllers. In Proceedings of the 16th USENIX Symposium on Operating Systems Design and Implementation, 2022. Acceptance rate: 49/251 = 19.5%
- 24. Aishwarya Ganesan, Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. *Exploiting Nil-Externality for Fast Replicated Storage*. In Proceedings of the 28th ACM Symposium on Operating Systems Principles, 2021. Acceptance rate: 54/348 = 15.5%
 Invited to Transactions on Storage
- NVMW '21 23. Kan Wu, Zhihan Guo, Guanzhou Hu, Kaiwei Tu, Ramnatthan Alagappan, Rathijit Sen, Kwanghyun Park, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. The Storage Hierarchy is Not a Hierarchy: Optimizing Caching on Modern Storage Devices with Orthus Nonvolatilve Memory Workshop, 2021.
- TOS '21 22. Anthony Rebello, Yuvraj Patel, Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Can Applications Recover from fsync Failures? ACM Transactions on Storage (TOS), June 2021.
 Fast-tracked

- 21. Aishwarya Ganesan, Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Strong and Efficient Consistency with Consistency-aware Durability. ACM Transactions on Storage (TOS), January 2021.
 Fast-tracked
- **20.** Xudong Sun, Lalith Suresh, Aishwarya Ganesan, **Ramnatthan Alagappan**, Michael Gasch, Lilia Tang, Tianyin Xu. *Reasoning about Modern Datacenter Infrastructures using Partial Histories* 18h Workshop on Hot Topics in Operating Systems, 2021.
- **FAST '21 19.** Kan Wu, Zhihan Guo, Guanzhou Hu, Kaiwei Tu, **Ramnatthan Alagappan**, Rathijit Sen, Kwanghyun Park, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. *The Storage Hierarchy is Not a Hierarchy: Optimizing Caching on Modern Storage Devices with Orthus*. In Proceedings of the 19th USENIX Conference on File and Storage Technologies, 2021. Acceptance rate: 28/130 = 21.5%
- OSDI '20
 18. 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%
- **HotStor '20 17.** Konstantinos Kanellis, **Ramnatthan Alagappan**, Shivaram Venkataraman. *Too Many Knobs to Tune? Towards Faster Database Tuning by Pre-selecting Important Knobs.* 12th Workshop on Hot Topics in Storage and File Systems, 2020.
- ATC '20
 16. Anthony Rebello, Yuvraj Patel, Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. *Can Applications Recover from Fsync Failures?* In Proceedings of the 2020 USENIX Annual Technical Conference, 2020. Acceptance rate: 65/348 = 18.7%

 Fast-tracked to Transactions on Storage
- FAST '20 15. Aishwarya Ganesan, Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Strong and Efficient Consistency with Consistency-aware Durability. In Proceedings of the 18th USENIX Conference on File and Storage Technologies, 2020. Acceptance rate: 23/138 = 16.7%
 Best Paper Award
 Fast-tracked to Transactions on Storage

PhD Work:

- TOS '18 14. Ramnatthan Alagappan, Aishwarya Ganesan, Eric Lee, Aws Albarghouthi, Vijay Chidambaram, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Protocol-Aware Recovery for Consensus-Based Distributed Storage. ACM Transactions on Storage (TOS), October 2018.
 Fast-tracked
- OSDI '18

 13. Ramnatthan Alagappan, Aishwarya Ganesan, Jing Liu, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Fault Tolerance, Fast and Slow: Exploiting Failure Asynchrony in Distributed Systems. In Proceedings of the 13th USENIX Conference on Operating Systems Design and Implementation, 2018. Acceptance rate: 47/257 = 18.3%
- FAST '18
 12. 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, 2018. Acceptance rate: 23/140 = 16.4%
 Best Paper Award

Fast-tracked to Transactions on Storage Invited to ATC 19 Best of the Rest

- **EUROSys'17 11.** Amir Saman Memaripour, Anirudh Badam, Amar Phanishayee, Yanqi Zhou, **Ramnatthan Alagappan**, Karin Strauss, Steven Swanson. *Atomic In-Place Updates for Non-Volatile Main Memories with KaminoTx*. In Proceedings of the European Conference on Computer Systems, 2017. Acceptance rate: 41/200 = 20.5%
- FAST '17 10. 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 to Usenix ;login:
 Fast-tracked to Transactions on Storage
- FAST '17
 9. Thanumalayan Sankaranarayana Pillai, Ramnatthan Alagappan, Lanyue Lu, Vijay Chidambaram, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Application Crash Consistency and Performance with C2FS. In Proceedings of the 15th USENIX Conference on File and Storage Technologies, 2017. Acceptance rate: 28/118 = 23.7%
 Best Paper Award
 Fast-tracked to Transactions on Storage
 Invited to ATC 18 Best of the Rest
- 3. 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. ;login: The USENIX Magazine, Summer 2017. Invited
- 7. Aishwarya Ganesan, Ramnatthan Alagappan, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Redundancy Does Not Imply Fault Tolerance: Analysis of Distributed Storage Reactions to File-System Faults. ACM Transactions on Storage (TOS), September 2017.
 Fast-tracked
- 6. Thanumalayan Sankaranarayana Pillai, Ramnatthan Alagappan, Lanyue Lu, Vijay Chidambaram, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Application Crash Consistency and Performance with C2FS. ACM Transactions on Storage (TOS), September 2017.
 Fast-tracked
- OSDI '16
 5. Ramnatthan Alagappan, Aishwarya Ganesan, Yuvraj Patel, Thanumalayan Sankaranarayana 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, 2016. Acceptance rate: 47/267 = 17.6%
- **4. Ramnatthan Alagappan**, Vijay Chidambaram, Thanumalayan Sankaranarayana Pillai, Aws Albarghouthi, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. *Beyond Storage APIs: Provable Semantics for Storage Stacks.* 15th Workshop on Hot Topics in Operating Systems, 2015.
- **ACMQueue**3. Thanumalayan Sankaranarayana Pillai, Vijay Chidambaram, Ramnatthan Alagappan, Samer Al Kiswany, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. *Crash Consistency: Rethinking the Fundamental Abstractions of the File System.* ACM Queue, July 2015.

 Invited
- CACM
 2. Thanumalayan Sankaranarayana Pillai, Vijay Chidambaram, Ramnatthan Alagappan, Samer Al Kiswany, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. Crash Consistency. Communications of the ACM Vol. 58, No. 10, October 2015.
 Invited

OSDI '14

1. Thanumalayan Sankaranarayana Pillai, Vijay Chidambaram, Ramnatthan Alagappan, Samer Al Kiswany, Andrea C. Arpaci-Dusseau, Remzi H. Arpaci-Dusseau. *All File Systems Are Not Created Equal: On the Complexity of Crafting Crash-Consistent Applications.* In Proceedings of the 11th USENIX Conference on Operating Systems Design and Implementation, 2014. Acceptance rate: 42/232 = 18.1%

Invited to Communications of the ACM
Invited to ACM Oueue

RESEARCH IMPACT

Corruption-tolerant Replication. The CTRL protocol from my FAST '18 paper has been adopted and implemented in TigerBeetle (Link1, Link2), a financial database, making it resilient to storage corruptions and errors. This work has also influenced systems at Facebook (Link).

ErrFS and ErrBench. ErrFS is a user-level FUSE file system that systematically injects file-system faults. Ideas from ErrFS have been adopted by other popular testing tools. ErrBench is a suite of distributed-storage-system workloads which drives systems to interact with their local storage. Through ErrFS and ErrBench, we have exposed many serious bugs in popular distributed systems such as ZooKeeper, Cassandra, and Kafka. Link to Artifacts

PACE. PACE is a framework to systematically generate and explore persistent states that can occur in a distributed execution, exposing crash vulnerabilities in distributed storage systems. PACE found 26 serious, real-world bugs in popular systems including ZooKeeper, Redis, etcd, and Kafka. Many bugs found by PACE have been fixed by developers.

Link to Artifacts

ALICE. ALICE is a crash-consistency testing framework that I helped build. ALICE has been adopted by others (including an open-source version). ALICE found several real-world bugs in 12 widely used commercial storage software products, including Google's LevelDB, Git, and SQLite. Link

Press Articles on Research

The Morning Paper. Protocol-Aware Recovery for Consensus-Based Storage Link to Article	Feb 2018
ZDNet. Eliminating Storage Failures in the Cloud Link to Article	Feb 2018
THE MORNING PAPER. Crash Consistency and Performance with CCFS Link to Article	Mar 2017
The Morning Paper. Redundancy Does Not Imply Fault Tolerance Link to Article	Mar 2017
DHSR's Blog. Redundancy Does Not Imply Fault Tolerance Link to Article	Mar 2017
StorageMojo. Redundancy Does Not Imply Fault Tolerance Link to Article	Mar 2017
The Morning Paper. All File Systems are Not Created Equal Link to Article	Feb 2016

TEACHING

Instructor, UIUC
CS 598 - Cloud Storage Systems
FALL '23
UIUC List of Teachers Ranked as Outstanding

Instructor, UIUC
CS 598 - Cloud Storage Systems
SPRING '23
UIUC List of Teachers Ranked as Excellent

Instructor, UIUC
CS 598 - Cloud Storage Systems
FALL '22
UIUC List of Teachers Ranked as Excellent

STUDENT ADVISING

Henry Zhu, PhD student Started Fall 2022 Xuhao Luo, PhD student Started Fall 2022 Shreesha Bhat, PhD student Started Fall 2023 Jiyu Hu, PhD student Started Fall 2023 Kiran Hombal, PhD student Started Fall 2023 Seokjoo Cho, PhD student Started Fall 2024 Emaan Attique, PhD student

Wenqing Luo, MS student (graduated)

Cloud-Native Recoverability

Started Spring 2025

Chaitanya Bhandari, MS student (graduated)

Ramya Bygari, MS student (graduated)

SERVICE

EuroSys '26 Program Committee	2026
FAST '26 Program Committee	2026
SOSP '25 Program Committee	2025
FAST '25 Program Committee	2025
SYSTOR '25 Program Committee	2025
HotStorage '25 Program Committee	2025
USENIX ATC '25 Program Committee	2025

PaPoC '25 Program Committee	2025
SOCC '25 Program Committee	2025
NSDI '25 Program Committee	2025
SysDW '24 Co-Chair	2024
ICDCS '24 Track Co-Chair	2024
SOSP '24 Program Committee	2024
USENIX ATC '24 ERC Co-Chair	2024
USENIX ATC '24 Program Committee	2024
EuroSys '24 Program Committee	2024
HotStorage '24 Program Committee	2024
SYSTOR '24 Program Committee	2024
Performance '23 Program Committee	2023
SYSTOR '23 Program Committee	2023
NVMW '23 Program Committee	2023
SOCC '23 Program Committee	2023
HotStorage '23 Program Committee	2023
OSDI '23 Program Committee	2023
FAST '23 Poster/WiP Co-chair	2023
SRC PACT '22 Program Committee	2022
SOCC '22 Program Committee	2022
HotStorage '22 Program Committee	2022
SOSP '21 Ask-Me-Anything Co-chair	2021
SOSP '21 Mentoring	2021
OSDI '21 Mentoring	2021
EuroDW '21 Mentoring	2021
Journal of Systems SEB Co-chair	2021
EuroDW '21 Program Committee	2021
HotStorage '21 Program Committee (Distinguished Reviewer)	2021
Systor '21 Program Committee	2021
ACM Transactions on Computer Systems, Reviewer	2020
HotStorage '20 Program Committee	2020
SOSP '19 Artifact Evaluation Committee	2019
Eurosys '19 Shadow PC (Best Reviewer)	2019
ACM Transactions on Storage, Reviewer	2018
FAST '18, External Reviewer	2018
EuroSys '17, Contributor to PC Reviews	2017
OSDI '16, External Reviewer	2016
FAST '16, External Reviewer	2016

Presentations & Invited Talks

Jiniversity of Pennsylvania Co-designing Distributed Systems and Storage Stacks for Improved Reliability Jiniversity of Waterloo Jan '22 Jiniversity of Waterloo Jiniversity of Waterloo Jiniversity of Waterloo Jiniversity of Urignia Pensylvania State University Pens '22 Jiniversity of Urignia Pensylvania State University Pens '22 Jiniversity of Urignia Pensylvania State University Pens '22 Jiniversity of Toronto Mak '22 Jiniversity of Toronto Mak '22 Jiniversity of Mashington Mak '22 Jiniversity of Mashington Mak '22 Jiniversity of Michigan Mak '22 Jiniversity of Michigan Mak '22 Jiniversity of North Carolina at Chapel Hill Mak '22 Jiniversity of Southern California Mak '22 Jiniversity of California, Santa Cruz Mak '22 Jiniversity of California, Santa Cruz Mak '22 Jiniversity of Waterloo (invited) Oct '21 Reliable Distributed Storage: A Local-storage Perspective Rulgers University (invited) Reliable Distributed Storage: A Local-storage Perspective Rulgers University (invited) Reliable Distributed Storage: A Local-storage Perspective Mayare Research Group (postdoc interview talk) Jun '20 Protocol-Aware Recovery for Consensus-Based Storage Usenix ATC (invited conference talk) Storage Systems at the Edge USF-VMWare ECDI Summit (invited) Senix OSDI (conference talk) Resiliency to Storage Faults in Distributed Systems Google Madison (invited) May '18 Resiliency to Storage Faults in Distributed Systems Google Madison (invited) May '18 Rethinking Consensus with Local Storage in Mind CL Labs Kickoff Meeting May '17 Correlated Crash Vulnerabilities	New Log Abstractions for Datacenter Applications	
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Jsenix (JSL)I (conterence talk) Oct '16	Usenix OSDI (conference talk)	Ост ′16
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	Correlated Crash Vulnerabilities	
Microsoft Gray Systems Lab (invited) Jun '16	Microsoft Gray Systems Lab (invited)	Jun '16