

Curriculum Vitae

An-I A. Wang

October 30, 2020

General Information

University address: Computer Science
College of Arts and Sciences
Love Building 253
Florida State University
Tallahassee, Florida 32306-4530
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Professional Preparation

2003 Ph.D., University Of California, Los Angeles. Major: Computer Science.
Specialization: Operating Systems. Supervisor: Gerald Popek.

Wang, An-I A. (2003). *The Conquest File System: A Disk/Persistent-RAM Hybrid Design for Better Performance and Simpler Data Paths*. (Doctoral dissertation, University Of California, Los Angeles). Retrieved from ProQuest Dissertations and Theses, <http://search.proquest.com/docview/305353494?accountid=4840,3094262>.

1998 M.S., University of California, Los Angeles. Major: Computer Science.
Specialization: Operating Systems. Supervisor: Gerald Popek.

Wang, An-I A. (1998). *Simulation Evaluation for Optimistically Replicated Filing Environments*. Unpublished master's thesis, University of California, Los Angeles.

1995 B.A., University of California, Berkeley. Major: Computer Science. summa cum laude.

Professional Experience

2017–present Professor, Computer Science, Florida State University.

2009–present	Associate Professor, Computer Science, Florida State University.
2003–2009	Assistant Professor, Computer Science, Florida State University.
2003	Lecturer, University of California, Los Angeles.
1995–2003	Research Assistant, University of California, Los Angeles.
2000	Teaching Assistant, University of California, Los Angeles.
1994	EECS Summer Intern, IBM Almaden Research Center.

Honors, Awards, and Prizes

Excellence in Teaching Award, The Alpha of Florida Chapter of Phi Beta Kappa (2019).
Nominee, FSU Developing Scholar Award, Florida State University (2010).
Nominee, University Undergraduate Teaching Award, Florida State University (2010).
NSF Faculty Early Career Development Award, National Science Foundation (2009).
Nominee, University Undergraduate Teaching Award, Florida State University (2006).

Current Membership in Professional Organizations

Association for Computing Machinery, Inc. (ACM)
USENIX: The Advanced Computing Systems Association

Teaching

Courses Taught

Operating Systems Principles (COP4610)
Advanced Operating Systems (COP5611)
Operating Systems Principles (COP4610)
Storage Research (CIS5900)
Systems Security Research (CIS6900)
Operating Systems Principles (COP4610)
Computer Systems Performance Evaluation (CIS 5105)
Internship in Computer Science (CIS5949)
Operating Systems Principles (COP4610)
Advanced Operating Systems (COP5611)
Operating Systems Principles (COP4610)
Advanced Operating Systems (COP5611)
Operating Systems Principles (COP4610)
Object-Oriented Programming in C++ for Non-Majors (COP3330)

Advanced Operating Systems (COP5611)
Object-Oriented Programming in C++ for Non-Majors (COP3330)
Object-Oriented Programming in C++ for Non-Majors (CGS5409)
Computer Systems Performance Evaluation (CIS5930)
Advanced Operating Systems (COP5611)
Operating Systems Principles (COP4610)
Computer Systems Performance Evaluation (CIS5930)
Advanced Operating Systems (COP5611)
Storage Research (CIS4900)
Operating Systems Principles (COP4610)
Advanced Operating Systems (COP5611)
Operating Systems Principles (COP4610)
Advanced Operating Systems (COP5611)
Operating Systems Principles (COP4610)
Principles of Operating Systems (CGS5765)
Honors Work (CIS4933)
Special Topics in Computer Science (CIS4930)
Computer Systems Performance Evaluation (CIS5930)
Computer Systems Performance Evaluation (CIS4930)
Operating Systems Principles (COP4610)
Kernel and Device Driver Programming (COP5641)
Doctoral Qualifying Examination (CIS8962)
Advanced Seminar in Computer Science (CIS6935)
LENS Seminar Series (CIS6935)
Graduate Software Project (CIS5915)
Operating Systems Reading Group (CIS6935)
Data Structures, Algorithms, and Generic Programming (COP4530)
Object-Oriented Programming with Data Structures (CGS5425)
Undergraduate Operating Systems Principles (at UCLA) (CS111)

New Course Development

Object-Oriented Programming in C++ for Non-Majors (2016)
Computer Systems Performance Evaluation (2009)
Kernel and Device Driver Programming (2007)
Operating Systems Principles (2004)
Advanced Operating Systems (2004)

Doctoral Committee Chair

Zhang, S., graduate. (2018). *Matching Physical File Representation to Logical Access Patterns for Better Performance*.
Mitchell, M. J., graduate. (2015). *Cashtags: Protecting the Input and Display of Sensitive Data*.
[funded by NSF]

Diesburg, S. M., graduate. (2012). *Per-file Full-data-path Secure Deletion for Electronic Storage*. [funded by NSF, DoE, PEO, and FSU]
Roy, B., doctoral candidate. [funded by NSF]
Wang, W., doctoral candidate. *Tags: A Unifying Primitive for the Storage Data Path*. [funded by NSF]
Rumancik, L., doctoral student.
Walsh, B., doctoral student.
Liu, W., doctoral student.

Doctoral Committee Cochair

Stanovich, M., graduate. (2015). *Plugging I/O Resource Leaks in General-purpose Real-time Operating Systems*. [funded by NSF and FSU, co-directed with Ted Baker]

Doctoral Committee Member

Tan, S., graduate. (2019). *Towards Ubiquitous Sensing using Commodity WiFi*.
Chen, Y., graduate. (2018). *Securing Systems by Vulnerability Mitigation and Adaptive Live Patching*.
Wang, T., graduate. (2017). *Exploring Novel Burst Buffer Management Solutions on Extreme-scale HPC Systems*.
Gavin, P., graduate. (2015). *A Presentation and Low-level Energy Usage Analysis of Two Low-power Architectural Techniques*.
West, P. E., graduate. (2010). *Next Generation Performance Monitoring*.
Hines, S. R., graduate. (2008). *Improving Processor Efficiency Through Enhance Instruction Fetch*.
Khan, M., doctoral candidate.
Chowdhury, M., doctoral student.

Doctoral Committee University Representative

Annane, B., graduate. (2019). *HWRT Analysis and Forecast Impact of CYGNSS Observations Assimilated as Scalar Wind Speeds and as VAM Wind Vectors*.

Master's Committee Chair

Rumancik, L., graduate. (2020).
Mustapick, E., graduate. (2019).
Trettin, R., graduate. (2019).
Chennaka, A., graduate. (2018).
Bach, J., graduate. (2017). [funded by NSF]
Stephens, B., graduate. (2017). *I/O Latency in the Linux Storage Stack*.

Roy, B., graduate. (2016). [funded by NSF]
Zhang, S., graduate. (2016).
Shyamala, S., graduate. (2015).
Dhabhai, H., graduate. (2015). *Identity Theft Data Analysis Based on the 2012 National Crime Victimization Survey*.
Kadali, P., graduate. (2015).
Kulkarni, N., graduate. (2015). *Analysis of TagFS Implementation in FUSE*.
Meyers, C., graduate. (2014). [funded by NSF]
Pillay, M., graduate. (2013).
Bobba, B., graduate. (2013).
Buzbee, B., graduate. (2013).
Gourineni, A., graduate. (2013).
Sanders, J., graduate. (2011). [funded by DoE]
Cobbs, B., graduate. (2011).
Chauhan, S., graduate. (2009).
Mohanty, S., graduate. (2009).
Goyal, V., graduate. (2009).
Vyas, R., graduate. (2009).
Fishel, R., graduate. (2008). *Exploring RAID Configurations*.
Diesburg, S., graduate. (2008). [funded by DoE]
Fox, C., graduate. (2008). *Quantifying Temporal and Spatial Localities in Storage Workloads and Transformations by Data Path Components*. [funded by NSF]
Lary, D., graduate. (2008). *PonyFS: File-system-level Encryption-based Secure Erasure*.
Lojpur, D., graduate. (2008). [funded by NSF]
Stanovich, M., graduate. (2008). *Throttling On-disk Schedulers to Meet Soft-real-time Requirements*. [funded by NSF, co-directed with Ted Baker]
Qian, J., graduate. (2007). *A Behind-the-Scenes Story on Applying Cross-Layer Coordination to Disks and RAIDs*. [funded by NSF]
Toh, S., graduate. (2005).
Weddle, C., graduate. (2005). [funded by NSF]
Hu, Z., graduate. (2004).
Brown, A., student.
Vuong, B., student.
Ma, T., student.
Miao, Y., student.
Williams, J., student.
Zhou, H., student.
Li, K., student.
Ryan, M., student.
Snoke, B., student.

Master's Committee Cochair

- Mitchell, M. J., graduate. (2011). *Context and Bio-aware Mobile Applications*. [funded by FSU, co-directed with Gary Tyson]
- Mahajan, A., graduate. (2006). *Urban Mobility Models for Vehicular Ad Hoc Networks*. [funded by FSU, co-directed with Kartik Gopalan]
- Potnis, N., graduate. (2006). *Evaluating Urban Deployment Scenarios for Vehicular Wireless Networks*. [funded by FSU, co-directed with Kartik Gopalan]

Master's Committee Member

- Draper, C., graduate. (2020).
- Escobar-Avila, J., graduate. (2019).
- Kundnani, H., graduate. (2019).
- Connor, C., graduate. (2019).
- Pimienta, M., graduate. (2019).
- Yohn, D., graduate. (2019).
- Chowdhury, M., graduate. (2018).
- Perez, D., graduate. (2017).
- Karthik Achalkar, graduate. (2017).
- Chetty, H., graduate. (2016).
- Darunam, V., graduate. (2016).
- Kishore Mattaparthi, graduate. (2016).
- Sinha, G., graduate. (2016).
- Dwibhashyam, S., graduate. (2016).
- Haribaran, A., graduate. (2016).
- Pogaku, S. K., graduate. (2015).
- Setty, S., graduate. (2015).
- Chittipolu, K., graduate. (2015).
- Jangannagari, A., graduate. (2015).
- Parimala, B., graduate. (2015).
- Qureshi, F., graduate. (2015).
- Tangella, S., graduate. (2015).
- Varma, A., graduate. (2015).
- Veladi, P., graduate. (2015).
- Ambavarapu, C., graduate. (2015).
- Kamble, A., graduate. (2015).
- Cai, J., graduate. (2014).
- Montee, G. M., graduate. (2011).
- Sposaro, F., graduate. (2011).
- Hekimian-Williams, C. B., graduate. (2009).
- Achury, M., graduate. (2009).
- Boindala, A., graduate. (2008).
- West, P., graduate. (2008).
- Erande, M., graduate. (2007).

Lakshminarayana, S., graduate. (2007).
Reece, G., graduate. (2006).
Rivera, C., graduate. (2005).
Xu, M., graduate. (2004).
Zhao, H., graduate. (2004).
Busey, J., graduate. (2004).

Bachelor's Committee Chair

Cassano, C., graduate. (2012). *A Comparison Study of Deduplication Methods with Small-Scale Workloads*. [funded by NSF]
Carpenter, M., graduate. (2006). *File Clustering for Efficient Backup Systems*. [funded by Bess Ward Fellows and Thesis Grant]
Oldham, M., graduate. (2005). *A Power and Performance Measurement Framework for Server-Class Storage*. [funded by NSF]

Bachelor's Committee Member

Yarboro, J., graduate. (2017). [funded by NSF]
Khlaaf, H., graduate. (2012).

Supervision of Student Research Not Related to Thesis or Dissertation

Valery Arturo (Jan–May 2016).
Brandon Stephens (Aug 2014–May 2015).
Catanese, H. (Jan–May 2014).
Debraban, J. (Sep 2009–May 2010).
Kaal, K. (Sep 2008–May 2009).
Rosenthal, D. (Sep 2008–May 2009).
Willage, J. (Sep 2008–May 2009).
Roy, B. (Sep 2007–Dec 2008).
Zatkovich, N. (Sep 2007–May 2008).
Garcia, B. J. (Sep 2006–Dec 2007).

Patel, J. (Sep 2006–Dec 2007).

Meyers, C. (Sep 2006–May 2007).

Zhu, F. (Sep 2005–May 2006).

Iloff, B. (Sep 2004–Dec 2005).

Baylis, S. (Sep 2004–May 2005).

Fox, C. (Sep 2004–May 2005).

Gonzalez, J. (Sep 2004–May 2005).

Jones, K. (Sep 2004–May 2005).

Kulkarni, A. (Sep 2004–May 2005).

Owenby, C. (Sep 2004–May 2005).

Villmow, M. (Sep 2004–May 2005).

Research and Original Creative Work

1450 Google Scholar Citations; sole/lead PI for 17/19 grants (\$4.4M total).

Publications

Invited Journal Articles

Weddle, C., Oldham, M., Qian, J., Wang, A. A., Reiher, P., & Kuenning, G. (2007). PARAID: A Gear-Shifting Power-Aware RAID. *ACM Transactions on Storage (TOS)*, 3(3), 13:1-13:33. Retrieved from <http://dl.acm.org/citation.cfm?id=1289721>

Refereed Journal Articles

Wang, W., Christopher Meyers, Robert Roy, Sarah Diesburg, & Wang, An-I A. (in press). ADAPT: An Auxiliary Storage Data Path Toolkit. *Elsevier Journal of Systems Architecture*, 12 pages.

Zhang, S., Roy, R., Rumancik, L., & Wang, An-I A. (2020). The Composite-file File System: Decoupling the One-to-one Mapping of Logical Files and Physical Metadata for Better Performance. *ACM Transactions on Storage (TOS)*, 16.

- Diesburg, S., Meyers, C., Stanovich, M., Wang, A., & Kuenning, G. (2016). TrueErase: Leveraging an Auxiliary Data Path for Per-file Secure Deletion. *ACM Transactions on Storage (TOS)*, 12(4), Article No. 18. Retrieved from <http://dl.acm.org/citation.cfm?id=2854882>
- Diesburg, S., & Wang, A. A. (2010). A Survey of Confidential Data Storage and Deletion Methods. *ACM Computing Surveys (CSUR)*, 43(1), 2:1-2:37. Retrieved from <http://dl.acm.org/citation.cfm?id=1824797>
- Wang, A. A., Kuenning, G., & Reiher, P. (2007). Using Permuted States and Validated Simulation to Analyze Conflict Rates in Optimistic Replication. *SCS Simulation: Transactions of the Society for Modeling and Simulation International*, 83(8), 551-569. Retrieved from <http://dl.acm.org/citation.cfm?id=1316483>
- Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (2006). The Conquest File System: Better Performance Through a Disk/Persistent-RAM Hybrid Design. *ACM Transactions on Storage (TOS)*, 2(3), 309-348. Retrieved from <http://dl.acm.org/citation.cfm?id=1168914>
- Nyugen, N. T., Wang, A. A., Kuenning, G. H., & Reiher, P. (2004). Electric-Field-Based Routing: A Reliable Framework for Routing in MANETs. *ACM SIGMOBILE Mobile Computing and Communications Review (MC2R)*, 8(2), 35-49. Retrieved from <http://dl.acm.org/citation.cfm?id=997129>

Invited Book Chapters

- Wang, A. A., Reiher, P., & Kuenning, G. (2003). Multipath Routing for Ad Hoc Networks. In Kia Makki, Niki Pissinou, Kami (Sam) Makki, & E. K. Park (Eds.), *Mobile and Wireless Internet: Protocols, Algorithms, and Systems* (pp. 245-261). Kluwer Academic Press.

Refereed Proceedings

- Wang, W., Meyers, C., Wang, An-I Andy, & Diesburg, S. (submitted). *Tags: A Unifying Primitive for the Storage Data Path*. Manuscript submitted for publication, 8 pages.
- Wang, An-I A, Whalley, D., Zhang, Z., & Tyson, G. (2020). Experience Administering Our First NSF S-STEM (Scholarship) Grant. In *2020 ACM Special Interest Group on Computer Science Education Conference (SIGCSE)*, Oregon. New York City, ACM.
- Roy, R., Dennis, E., Wang, An-I A, Reiher, P., & Diesburg, S. (2020). The Legend File System: Better Reliability through Implicit Replicas. In *the 35th ACM/SIGAPP Symposium on Applied Computing (SAC)*. New York City, ACM.
- Zhang, S., Catanese, H., & Wang, A. (2016). The Composite-file File System: Decoupling the One-to-one Mapping of Files and Metadata for Better Performance. In *Proceedings of the*

- 14th USENIX Conference on File and Storage Technologies (FAST)* (pp. 15-22). USENIX.
- Mitchell, M., Wang, A., & Reiher, P. (2015). Cashtags: Protecting the Input and Display of Sensitive Data. In *Proceedings of the 24th USENIX Security Symposium, Washington, D. C* (pp. 961-976). USENIX.
- Mitchell, M., Patidar, R., Saini, M., Singh, P., Wang, A. A., & Reiher, P. (2015). Mobile Usage Patterns and Privacy Implications. In *Proceedings of the 2015 International Workshop on the Impact of Human Mobility in Pervasive Systems and Applications*. IEEE.
- Wang, A. A., Tyson, G., Whalley, D., van Engelen, R., & Zhang, Z. (2014). A Journey toward Obtaining Our First NSF S-STEM (Scholarship) Grant. In *Proceedings of the 2014 ACM Special Interest Group on Computer Science Education (SIGCSE)* (pp. 427-432). ACM.
- Diesburg, S., Meyers, C., Stanovich, M., Mitchell, M., Marshall, J., Gould, J., Wang, A. A., & Kuenning, G. (2012). TrueErase: Full-storage-data-path Per-file Secure Deletion. In *Proceedings of the 2012 Annual Computer Security Applications Conference (ACSAC)* (pp. 439-449). ACM.
- Mitchell, M., Sposaro, F., Wang, A. A., & Tyson, G. (2011). BEAT: Bio-Environmental Android Tracking. In *Proceedings of the IEEE Topical Meeting on Biomedical Radio and Wireless Technologies, Networks, and Sensing Systems (RWW)* (pp. 402-405). IEEE.
- Mitchell, M., Meyers, C., Wang, A. A., & Tyson, G. (2011). ContextProvider: Context Awareness for Medical Monitoring Applications. In *Proceedings of the 33rd Annual International Conference on IEEE Engineering Medicine and Biology Society (EMBS)* (pp. 5244-5247). IEEE.
- Stanovich, M., Baker, T., & Wang, A. A. (2011). Experience with Sporadic Server Scheduling in Linux: Theory vs. Practice. In *Proceedings of the 13th Real-Time Linux Workshop (RTLWS)* (pp. 219-230). OSADL.
- Stanovich, M., Baker, T., Wang, A. A., & Harbour, M. G. (2010). Defects of the POSIX Sporadic Server and How to Correct Them. In *Proceedings of the 16th IEEE Real-time and Embedded Technology and Applications Symposium (RTAS)* (pp. 35-45). IEEE.
- Qian, J., Meyers, C., & Wang, A. A. (2008). A Linux Implementation Validation of Track-Aligned Extents and Track-Aligned RAIDs. In *Proceedings of the 2008 USENIX Annual Technical Conference (ATC)* (pp. 261-266). USENIX.
- Fox, C., Lojpur, D., & Wang, A. A. (2008). Quantifying Temporal and Spatial Localities in Storage Workloads and Transformations by Data Path Components. In *Proceedings of the 16th Annual Meeting of the IEEE International Symposium on Modeling, Analysis, and Simulation (MASCOTS)* (pp. 1-10). IEEE.

- Stanovich, M., Baker, T. P., & Wang, A. A. (2008). Throttling On-Disk Schedulers to Meet Soft-Real-Time Requirements. In *Proceedings of the 14th IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)* (pp. 331-341). IEEE.
- Diesburg, S., Meyers, C., Lary, D., & Wang, A. A. (2008). When Cryptography Meets Storage. In *Proceedings of the 4th International Workshop on Storage Security and Survivability (StorageSS)* (pp. 11-20). ACM.
- Potnis, N., Mahajan, A., Wang, A. A., & Gopalan, K. (2007). Evaluation of Mesh-Enhanced VANET Deployment Models. In *Proceedings of the 16th International Conference on Computer Communications and Networks, Workshop on Advanced Networking and Communications* (pp. 862-867). IEEE.
- Baker, T. P., Wang, A. A., & Stanovich, M. (2007). Fitting Linux Device Drivers into an Analyzable Scheduling Framework. In *Proceedings of the 3rd Workshop on Operating System Platforms for Embedded Real-Time Applications* (pp. 9-18). IEEE.
- Lewandowski, M., Stanovich, M., Baker, T., Gopalan, K., & Wang, A. A. (2007). Modeling Device Driver Effects in Real-Time Schedulability Analysis: Study of a Network Driver. In *Proceedings of the 13th IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS)* (pp. 57-68). IEEE.
- Mahajan, A., Potnis, N., Gopalan, K., & Wang, A. A. (2007). Modeling VANET Deployment in URBAN Settings. In *Proceedings of the 10th ACM/IEEE International Symposium on Modeling, Analysis, and Simulation of Wireless and Mobile Systems (MSWiM)* (pp. 151-158). ACM/IEEE.
- Weddle, C., Oldham, M., Qian, J., Wang, A. A., Reiher, P., & Kuenning, G. (2007). PARaid: A Gear-Shifting Power-Aware RAID. In *Proceedings of the 5th USENIX Conference on File and Storage Technologies (FAST)* (pp. 245-260). USENIX.
- Mahajan, A., Potnis, N., Gopalan, K., & Wang, A. (2006). Evaluation of Mobility Models for Vehicular Ad-hoc Network Simulations. In *IEEE International Workshop on Next Generation Wireless Networks* (pp. 13 pages). IEEE.
- Mahajan, A., Potnis, N., Gopalan, K., & Wang, A. A. (2006). Urban Mobility Models for VANETs. In *Proceedings of the 2nd IEEE International Workshop on Next Generation Wireless Networks*. IEEE.
- Wang, A. A., Kuenning, G., & Reiher, P. (2005). Introducing Permuted States to Analyze Conflict Rates in Optimistic Replication. In *Proceedings of the ACM International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS)* (pp. 376-377). ACM.
- Wang, A. A., Kuenning, G., & Reiher, P. (2005). Using Permuted States and Validated Simulation to Analyze Conflict Rates in Optimistic Replication. In *Proceedings of the*

- 2005 *International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS)* (pp. 929-939). SCS.
- Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (2003). The Effects of Memory-Rich Environments on File System Microbenchmarks. In *Proceedings of the 2003 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS)* (pp. 745-754). SCS.
- Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (2002). Conquest: Better Performance Through a Disk/Persistent-RAM Hybrid File System. In *Proceedings of the 2002 USENIX Annual Technical Conference (ATC)* (pp. 15-28). USENIX.
- Wang, A. A., Reiher, P., Bagrodia, R., & Kuenning, G. (2002). Understanding the Behavior of Conflict-Rate Metric in Optimistic Peer Replication. In *Proceedings of the 5th IEEE International Workshop on Mobility in Databases and Distributed Systems (MDDS)* (pp. 757-761). IEEE.
- Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (2001). Position Summary: The Conquest File System—Life after Disks. In *Proceedings of the 8th IEEE Workshop on Hot Topics in Operating Systems (HotOS)* (pp. 186). IEEE.
- Wang, A. A., Reiher, P., & Bagrodia, R. (1999). A Simulation Evaluation of Optimistically Replicated Filing in Mobile Environments. In *Proceedings of the 18th IEEE International Performance, Computing, and Communication Conference (IPCCC)* (pp. 43-51). IEEE.
- Kuenning, G., Guy, R., Popek, G., Reiher, P., & Wang, A. A. (1998). Measuring the Quality of Service of Optimistic Replication. In *Proceedings of the 12th European Conference on Object-Oriented Programming (ECOOP) Workshop on Mobility and Replication* (pp. 319-320). Springer.

Nonrefereed Reports

- Zhang, S., & Wang, A. (2017). *FJS: Fine-grained Journal Store* (Technical Report TR-171030). Florida State University.
- Wang, W., Meyers, C., Wang, An-I Andy, & Diesburg, S. (2017). *Tags: A Unifying Primitive for the Storage Data Path* (Technical Report TR-170929). Florida State University.
- Zhang, S., Catanese, H., & Wang, A. (2016). *The Composite-file File System: Decoupling the One-to-one Mapping of Logical Files and Physical Metadata for Better Performance* (Poster). Proceedings of the 14th USENIX Conference on File and Storage Technologies.

- Roy, R., Dennis, B., Wang, A., & Reiher, P. (2016). *The Legend File System: Better Reliability through Implicit Replicas* (Technical Report TR-160201). Department of Computer Science, Florida State University.
- Zhang, S., Catanese, H., & Wang, A. (2015). *The Composite-file File System: Decoupling the One-to-one Mapping of Files and Metadata for Better Performance* (Technical Report TR-150921). Department of Computer Science, Florida State University.
- Mitchell, M., Reiher, P., & Wang, A. (2014). *Cashtags: Prevent Leaking Sensitive Information through Screen Display* (Technical Report TR-141209). Department of Computer Science, Florida State University.
- Mitchell, M., Wang, A. A., & Reiher, P. (2013). *Mobile Usage Patterns and Privacy Implications* (Technical Report TR-131104). Florida State University.
- Buzbee, B., Wang, W., & Wang, A. A. (2013). *Power-Saving Approaches and Tradeoffs for Storage Systems* (Technical Report TR-130627). Department of Computer Science: Florida State University.
- Mitchell, M., Sposaro, F., Wang, A. A., & Tyson, G. (2011). *BEAT: Bio-Environmental Android Tracking* (Poster). Proceedings of the IEEE Topical Meeting on Biomedical Radio and Wireless Technologies, Networks, and Sensing Systems.
- Mitchell, M., Meyers, C., Wang, A. A., & Tyson, G. (2011). *ContextProvider: Context Awareness for Medical Monitoring Applications* (Poster). Proceedings of the 33rd Annual International Conference on IEEE Engineering Medicine and Biology Society (EMBS).
- Diesburg, S., Meyers, C., Stanovich, M., Mitchell, M., Marshall, J., Gould, J., Wang, A. A., & Kuenning, G. (2011). *TrueErase: Full-storage-data-path Per-file Secure Deletion* (Technical Report TR-111020). Department of Computer Science: Florida State University.
- Diesburg, S., Meyers, C., & Wang, A. A. (2010). *Full-datapath Secure Deletion* (Poster). Grace Hopper Conference, Celebration of Women in Computing.
- Stanovich, M., Baker, T., Wang, A. A., & Harbour, M. G. (2009). *Defects of the POSIX Sporadic Server and How to Correct Them* (Technical Report TR-091026). Department of Computer Science: Florida State University.
- Diesburg, S., Meyers, C., & Wang, A. A. (2009). *Full-datapath Secure Deletion* (Work-in-progress Report). On-line Proceedings of the 18th USENIX Security Symposium.

- Datta, S., van Engelen, R., & Wang, A. A. (2009). *Predictux: A Framework for Predicting Incremental Release Times* (Technical Report TR-090120). Department of Computer Science: Florida State University.
- Diesburg, S., & Wang, A. A. (2008). *A Survey of Confidential Data Storage and Deletion Methods* (Technical Report TR-080508). Department of Computer Science: Florida State University.
- Fox, C., Lojpur, D., & Wang, A. A. (2008). *Quantifying Temporal and Spatial Localities in Storage Workloads and Transformations by Data Path Components* (Technical Report TR-080406). Department of Computer Science: Florida State University.
- Fox, C., Lojpur, D., & Wang, A. A. (2008). *Work-in-Progress Report: Quantifying Temporal and Spatial Localities due to File System Caching* (Work-in-progress Report). On-line Proceedings of the Sixth USENIX Conference on File and Storage Technologies (FAST).
- Qian, J., & Wang, A. A. (2007). *A Behind-the-Scenes Story on Applying Cross-Layer Coordination to Disks and RAIDs* (Technical Report TR-071015). Department of Computer Science: Florida State University.
- Stanovich, M. J., Baker, T. P., & Wang, A. A. (2007). *Throttling Disk Schedulers to Meet Soft-Real-Time Requirements* (Technical Report TR-071025). Department of Computer Science: Florida State University.
- Weddle, C., Oldham, M., Qian, J., Wang, A. A., Reiher, P., & Kuenning, G. (2006). *PARAID: Gear-Shifting Power-Aware RAID* (Technical Report TR-060323). Department of Computer Science: Florida State University.
- Mahajan, A., Potnis, N., Gopalan, K., & Wang, A. A. (2005). *Evaluation of Mobility Models for Vehicular Ad-hoc Network Simulations* (FSU Technical Report TR-051220). Department of Computer Science: Florida State University.
- Xu, R., Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (2003). *Work in Progress: Conquest—Combining Battery-backed RAM and Threshold-based Storage Scheme to Conserve Power* (Work-in-progress Report). On-line Proceedings of the 19th ACM Symposium on Operating Systems Principles (SOSP).
- Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (2002). *Work-in-Progress Report: Conquest: Better Performance Through a Disk/RAM Hybrid File System* (Work-in-progress Report). On-Line Proceedings of the First USENIX Conference on File and Storage Technologies (FAST).
- Wang, A. A., Reiher, P., & Bagrodia, R. (2001). *A Simulation Framework and Evaluation for Optimistically Replicated Filing Environments* (Technical report CSD-010046). Computer Science Department: University of California, Los Angeles.

Yarvis, M., Wang, A. A., Rudenko, A., Reiher, P., & Popek, G. (1999). *Conductor: Distributed Adaptation for Complex Networks* (Technical report CSD-990042). Computer Science Department: University of California, Los Angeles.

Wang, A. A., Reiher, P., & Bagrodia, R. (1997). *A Simulation Framework for Evaluating Optimistically Replicated Filing Environments* (Technical report CSD-970018). Computer Science Department: University of California, Los Angeles.

Presentations

Refereed Papers at Conferences

Wang, A. A., Kuenning, G., & Reiher, P. (presented 2005, June). *Using Permuted States to Analyze Conflict Rates in Optimistic Peer-to-Peer Replication*. Paper presented at International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS), ACM. (International)

Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (presented 2002, June). *Conquest: Better Performance Through a Disk/Persistent-RAM Hybrid File System*. Paper presented at 2002 Annual Technical Conference (ATC), USENIX. (International)

Wang, A. A., Reiher, P., & Bagrodia, R. (presented 1999, February). *A Simulation Evaluation of Optimistically Replicated Filing in Mobile Environments*. Paper presented at 18th International Performance, Computing, and Communication Conference (IPCCC), IEEE. (International)

Refereed Papers at Symposia

Wang, An-I A, Whalley, D., Zhang, Z., & Tyson, G. (accepted). *Experience of Administering Our First S-STEM Program to Broaden Participation in Computer Science*. In Jian Zhang and Mark Sherriff (Chair), *the 2020 ACM Special Interest Group on Computer Science Education (SIGCSE) Technical Symposium*. Symposium to be conducted at the meeting of ACM, Portland, Oregon, USA. (International)

Fox, C., Lojpur, D., & Wang, A. A. (presented 2008, May). *Quantifying Temporal and Spatial Localities in Storage Workloads and Transformations by Data Path Components*. In *16th Annual International Symposium on Modeling, Analysis, and Simulation (MASCOTS)*. Symposium conducted at the meeting of IEEE. (International)

Wang, A. A., Kuenning, G., & Reiher, P. (presented 2005, July). Using Permuted States and Validated Simulation to Analyze Conflict Rates in Optimistic Replication. In *2005 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS)*. Symposium conducted at the meeting of The Society for Modeling and Simulation International. (International)

Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (presented 2003, July). The Effects of Memory-Rich Environments on File System Microbenchmarks. In *2003 International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS)*. Symposium conducted at the meeting of The Society for Modeling and Simulation International. (International)

Refereed Presentations at Conferences

Wang, An-I A, Whalley, D., Zhang, Z., & Tyson, G. (presented 2020, April). *Experience of Administering Our First S-STEM Program to Broaden Participation in Computer Science*. Presentation at 2020 ACM Special Interest Group on Computer Science Education (SIGCSE), ACM, Oregon. (International) Retrieved from <https://sigcse2020.sigcse.org/>

Refereed Workshops

Wang, A. A., Reiher, P., Bagrodia, R., & Kuenning, G. (2002, September). *Understanding the Behavior of Conflict-Rate Metric in Optimistic Peer Replication*. Workshop delivered at 5th IEEE International Workshop on Mobility in Databases and Distributed Systems (MDDS), Aix-en-Provence, France. (International)

Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (2001, May). *Position Summary: The Conquest File System—Life after Disks*. Workshop delivered at 8th IEEE Workshop on Hot Topics in Operating Systems (HotOS). (International)

Invited Lectures and Readings of Original Work

Wang, A. (2018, November). *Tags: A Unifying Primitive for the Storage Data Path*. Delivered at Florida State University, Tallahassee. (Local)

Wang, A. (2017, November). *Tags: A Unifying Primitive for the Storage Data Path*. Delivered at Florida State University, Tallahassee. (Local)

Wang, An-I. (2017, January). *The Composite-file File System: Decoupling One-to-one Mapping of Files and Metadata for Better Performance*. Delivered at Florida State University, Tallahassee, FL, Tallahassee. (Local)

- Wang, An-I. (2016, December). *The Composite-file File System: Decoupling One-to-one Mapping of Files and Metadata for Better Performance*. Delivered at Florida State University, Tallahassee, FL, Tallahassee. (Local)
- Wang, A. (2015, December). *TrueErase: Full-storage-data-path Per-file Secure Deletion*. Delivered at Florida State University, Tallahassee, FL. (Local)
- Wang, A. (2014, November). *Applying for Graduate Schools*. Delivered at Florida State University, Tallahassee, FL. (Local)
- Wang, A. (2014, November). *TrueErase: Full-storage-data-path Per-file Secure Deletion*. Delivered at Florida State University, Tallahassee, FL. (Local)
- Wang, A. A. (2013, December). *TrueErase: Full-storage-data-path Per-file Secure Deletion*. Delivered at Florida State University, Tallahassee, FL. (Local)
- Wang, A. A. (2012, December). *Full-storage-data-path Per-file Secure Deletion*. Delivered at Florida State University, Tallahassee, FL. (Local)
- Wang, A. A. (2012, May). *A Survey of Power-Saving Techniques for Storage Systems*. Delivered at Chalmers University of Technology, Gothenburg, Sweden. (International)
- Wang, A. A. (2012, May). *PARAID: A Gear-Shifting Power-Aware RAID*. Delivered at Chalmers University of Technology, Gothenburg, Sweden. (International)
- Wang, A. A. (2012, May). *TrueErase: Full-storage-data-path Per-file Secure Deletion*. Delivered at Computer Science Research Seminar, Chalmers University of Technology, Gothenburg, Sweden. (International)
- Wang, A. A. (2011, November). *TrueErase: Full-storage-data-path Per-file Secure Deletion*. Delivered at 8th International Workshop Operating System Technologies for Large Scale NVRAM (NVRAMOS), Jeju Island, South Korea. (International)
- Wang, A. A. (2011, October). *TrueErase: Full-storage-data-path Per-file Secure Deletion*. Delivered at Computer Science Colloquium, Florida State University, Tallahassee, FL. (Local)
- Wang, A. A. (2010, November). *Some Ongoing Storage Research Projects*. Delivered at Computer Science Colloquium, Florida State University, Tallahassee, FL. (Local)
- Wang, A. A. (2009, October). *When Cryptography Meets Storage*. Delivered at Computer Science Colloquium, Florida State University, Tallahassee, FL. (Local)
- Wang, A. A. (2008, November). *My Passion for Digital Plumbing*. Delivered at Computer Science Colloquium, Florida State University, Tallahassee, FL. (Local)

- Wang, A. A. (2008, May). *Quantifying Temporal and Spatial Localities in Storage Workloads and Transformations by Data Path Components*. Delivered at 16th Annual Meeting of the IEEE International Symposium on Modeling, Analysis, and Simulation (MASCOTS). (International)
- Wang, A. A. (2008, April). *PARAID: A Gear-Shifting Power-Aware RAID*. Delivered at Computer Science Research Seminar, University of Wisconsin, Madison, Madison, WI. (State)
- Wang, A. A. (2008, March). *PARAID: A Gear-Shifting Power-Aware RAID*. Delivered at Computer Science Research Seminar, University of California, Santa Cruz, Santa Cruz, CA. (State)
- Wang, A. A. (2007, November). *PARAID: A Gear-Shifting Power-Aware RAID*. Delivered at Computer Science Colloquium, Harvey Mudd College, Claremont, CA. (State)
- Wang, A. A. (2007, November). *Some Research Frontiers in Storage Systems*. Delivered at Computer Science Colloquium, Florida State University, Tallahassee, FL. (Local)
- Wang, A. A. (2006, November). *Some Research Frontiers in Storage Systems*. Delivered at Computer Science Colloquium, Florida State University, Tallahassee, FL. (Local)
- Wang, A. A. (2006, May). *Conquest-2: Improving Energy Efficiency and Performance Through a Disk/RAM Hybrid File System*. Delivered at Computer Science Colloquium, University of California, Los Angeles, Los Angeles, CA. (State)
- Wang, A. A. (2005, December). *Conquest-2: Improving Energy Efficiency and Performance Through a Disk/RAM Hybrid File System*. Delivered at Computer Science Colloquium, Florida State University, Tallahassee, FL. (Local)
- Wang, A. A. (2005, November). *Conquest-2: Improving Energy Efficiency and Performance Through a Disk/RAM Hybrid File System*. Delivered at Computer Science Colloquium, University of Delaware, Newark, DE. (State)
- Wang, A. A. (2005, May). *Conquest-2: Improving Energy Efficiency and Performance Through a Disk/RAM Hybrid File System*. Delivered at Computer Science Colloquium, University of California, Riverside, Riverside, CA. (State)
- Wang, A. A. (2004, October). *Some Research Frontiers in Storage Systems*. Delivered at Computer Science Colloquium, Florida State University, Tallahassee, FL. (Local)
- Wang, A. A. (2004, February). *Electric-Field-Based Routing: Secure Spatially Disjoint Routes in MANETs*. Delivered at DARPA's Proposer's Day for Defense against Cyber Attacks on Mobile Ad Hoc Networks, Virginia. (National)

- Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (2003, October). *Conquest: Preparing for Life After Disks*. Delivered at Computer Science Colloquium, Florida State University, Tallahassee, FL. (Local)
- Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (2002, November). *Conquest: Preparing for Life After Disk*. Delivered at UCLA Advanced Operating Systems Lecture, Los Angeles, CA. (Local)
- Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (2002, January). *Conquest: Better Performance Through a Disk/Persistent-RAM Hybrid File System*. Delivered at 1st USENIX Conference on File and Storage Technologies (FAST), Monterey, CA. (International)
- Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (2001, November). *Conquest: RAM as Storage; Disks as Tapes*. Delivered at UCLA Advanced Operating Systems Lecture, Los Angeles, CA. (Local)
- Wang, A. A., Kuenning, G., Reiher, P., & Popek, G. (1999, October). *Integration of Memory and File System Services via Persistent RAM*. Delivered at Computer Science Colloquium, Harvey Mudd College, Claremont, CA. (State)

Patented Inventions

- Mitchell, M., Wang, A., & Reiher, P. (2018). *Obfuscation of Sensitive Mobile Display*. 10,025,952, Florida State University. Tallahassee, FL.
- Wang, A. A. (2006). *Power-Aware Redundant Array of Independent Disks (PARAID) and Related Methods*. U.S. Patent No. 11/424,656.

Contracts and Grants

Contracts and Grants Funded

- Wang, An-I A, Whalley, D., Haiduc, S., Perez-Felkner, L., & Liu, X. (Oct 2020–Sep 2025). *Broadening Participation in Computer Science*. Funded by National Science Foundation. (DUE-2003070). Total award \$999,848.
- Wang, An-I A. (2019–2020). *Decoupling Logical and Physical Representations of Files for Better Performance*. Funded by Florida State University. Total award \$13,000.
- Wang, A. (2018–2019). *Semantic Reliability Mechanisms for Computer Storage*. Funded by FSU Committee on Faculty Research Support. Total award \$14,000.

- Wang, A. (2017–2018). *Performance Analysis of SSDs*. Funded by Xilinx. Total award \$1,099.
- Wang, A. (2016–2017). *Modernize Storage-related Projects with Solid-State Disk Project Boards*. Funded by FSU. (TFCSCS1606). Total award \$28,080.
- Wang, A. (2015–2016). *Planning Grant: Better Computer Storage Reliability through Implicit Replicas*. Funded by Council on Research and Creativity, Florida State University. Total award \$13,000.
- Wang, A. (2014–2016). *Facets: Exploring Semantic Equivalence of Files to Improve Storage Systems*. Funded by NSF. (CNS-144387). Total award \$16,000.
- Whalley, D., Tyson, G., & Wang, A. (2014–2017). *IRES: U.S.-Sweden Research Experience in Efficient and Secure Mobile Systems for Students*. Funded by NSF. (IIA-1358147). Total award \$250,000.
- Wang, A. A., Whalley, D., Tyson, G., van Engelen, R., & Zhang, Z. (2013–2018). *Broadening Participation in Computer Science*. Funded by National Science Foundation. (DUE-1259462). Total award \$602,569.
- Wang, An-I A (PI). (2011–2015). *CAREER: Tags: A Unifying Primitive to Build Storage Data Paths for Swiftly Evolving Workloads and Storage Media*. Funded by National Science Foundation Experiences for Undergraduates Grant. (CNS-1125275). Total award \$16,000.
- Wang, An-I A (PI). (2011–2016). *CSR:Medium:Collaborative Research. Facets: Exploring Semantic Equivalence of Files to Improve Storage Systems*. Funded by National Science Foundation. (CNS-1065127). Total award \$850,000.
- Wang, A. A. (PI). (2010–2011). *Planning Grant: Studying the Effects of Multicore Environment on Storage Performance*. Funded by Council on Research and Creativity, Florida State University. Total award \$12,000.
- Wang, A. A. (2009–2015). *CAREER: Tags: A Unifying Primitive to Build Storage Data Path for Swiftly Evolving Workloads and Storage Media*. Funded by National Science Foundation Faculty Early Career Development Grant. (CNS-0845672). Total award \$400,000.
- Wang, A. A. (2008–2008). *Faculty Travel Grant*. Funded by Office of the Provost, Florida State University. Total award \$450.
- Wang, A. A. (2008–2009). *Florida State University Research Foundation GAP Grant: In-memory File System*. Funded by Council on Research and Creativity, Florida State University. Total award \$100,000.

Wang, A. A. (2007–2008). *Planning Grant: Exploring Opportunities between RAIDs and Storage Components*. Funded by Council on Research and Creativity, Florida State University. Total award \$11,999.

Baker, Theodore P (PI), Wang, An-I A, & Gopalan, K. (2005–2008). *Next-Generation Real-Time Device Architecture*. Funded by National Science Foundation. (CNS-0509131). Total award \$600,000.

Wang, A. A. (2005–2006). *Extracting and Exploiting Dependency Information amidst Non-deterministic Program Execution*. Funded by Bess Ward Fellows and Thesis Grant (for Mark Carpenter). Total award \$1,000.

Wang, An-I A (PI). (Jul 2004–Jun 2007). *Collaborative Research: Conquest-2: Improving Energy Efficiency and Performance Through a Disk/RAM Hybrid File System*. Funded by National Science Foundation. (CNS-0410896). Total award \$450,000.

Wang, A. A. (2004–2005). *First Year Assistant Professor Award: Conquest-2—Combining Battery-Backed RAM and Threshold-Based Storage Scheme to Conserve Power*. Funded by Council on Research and Creativity, Florida State University. Total award \$13,000.

Reiher, P. (PI), & Wang, A. A. (2001–2002). *Improving Operating Systems by Replacing Hard Disks with Persistent Solid State Memory*. Funded by National Science Foundation. (CCR-0098363). Total award \$100,000.

Contracts and Grants Denied

Burmester, M., Liu, X., Whalley, D., Wang, An-I A, & Hay, C. (2019). *Renewal: CyberCorps: Scholarship for Service for FSU MS CC and CNSA Students*. Submitted to NSF.

Wang, A. (2018). *ClumpFS: Better Per-file Access Latency for Commodity Computing Devices*. Submitted to Florida State University.

Whalley, D., Wang, A., & Tyson, G. (2018). *IRES: Track I: Supporting FSU Student Research with NTNU Faculty on Improving the Efficiency of Traditional and Mobile Systems*. Submitted to National Science Foundation.

Dennis, L., Jones, F., Randeree, E., Wang, A., Yuan, X., van Engelen, R., & Hu, S. (2017). *STEM: Collaborative Proposal: Florida Information Technology Career Scholars (FITC-S): Recruiting, Retaining, and Employing Academically-talented Transfer Students*. Submitted to NSF.

- Dennis, L., Jones, F., Randeree, E., Wang, A., Yuan, X., van Engelen, R., & Hu, S. (2016). *STEM: Collaborative Proposal: Florida Information Technology Career Scholars (FITC-S): Recruiting, Retaining, and Employing Academically-talented Transfer Students*. Submitted to NSF.
- Wang, A. (2015). *REU: Broadening Participation in Computer Science*. Submitted to NSF.
- Wang, A. (2015). *CSR::Small:Collaborative Research: Organic File System*. Submitted to NSF.
- Wang, An-I. (2015). *Organic File System*. Submitted to Florida State University, COFRS.
- Wang, A. (2013). *Self-adaptive File-System Bookkeeping Records*. Submitted to FSU CRC.
- Wang, A., Kumar, P., van Engelen, R., Tyson, G., & Whalley, D. (2011). *Broadening Participation in Computer Science and Computational Biology*. Submitted to NSF.
- Wang, A. (2010). *CSR:Small: Sifon: Storage-datapath-wide, Informed, and Coordinated Scheduling*. Submitted to NSF.
- Wang, A., Kumar, P., van Engelen, R., Tyson, G., & Whalley, D. (2010). *Broadening Participation in Computer Science and Computational Biology*. Submitted to NSF.
- Tyson, G., Zhang, Z., Kumar, P., Wang, A., & Yuan, X. (2010). *II-NEW: Cloud Computing for Mobile Devices*. Submitted to NSF.
- Tyson, G., Kumar, P., Wang, A., van Engelen, R., & Whalley, D. (2009). *Broadening Participation in Computer Science and Computational Biology*. Submitted to NSF.
- Tyson, G., Li, F., Zhang, Z., Wang, A., & Whalley, D. (2009). *CPS:MEDIUM: Designing a Battery Aware Paradigm for Mobile Cyber Physical Systems*. Submitted to NSF.
- Wang, A. (2008). *CSR:Small:icFlash: Information-rich and Control-rich Storage Data Path for Flash*. Submitted to NSF.
- Yuan, X., Wang, A., Liu, X., Aggarwal, S., & Baker, T. (2007). *CRI: Developing a Storage System Infrastructure*. Submitted to NSF.
- Wang, A. (2007). *CAREER: Nimble Storage Infrastructure for Swiftly Evolving Demands*. Submitted to NSF.
- Wang, A. (2007). *CSR--PDOS: Collaborative Research--E2ERAID: An End-to-End Approach for RAID Data Path Design and Implementation*. Submitted to NSF.
- Wang, A. (2007). *CT-T: Collaborative Research: Using Context To Improve System Security*. Submitted to NSF.

- Yuan, X., Wang, A., Liu, X., Aggarwal, S., & Baker, T. (2006). *CRI: Developing a Storage System Infrastructure*. Submitted to NSF.
- Wang, A. (2006). *HECERA: Collaborative Research. Orchestra: A Traffic-Class-Aware Parallel File System*. Submitted to NSF.
- Wang, A., & Whaley, D. (2006). *CSR--PDOS: Ancestry: Dependency-Centric Reliability Mechanisms for Better Data Survivabilit*. Submitted to NSF.
- Gopalan, K., & Wang, A. (2005). *NeTS-NBD: Tackling Real-World Obstacles and Mobility in Ad Hoc Networks: New Strategies for Modeling, Simulation, and Empirical Validation*. Submitted to NSF.
- Wang, A. (2004). *CSR--PDOS: Virtual Content: Exploiting Data-Process Dependencies for Performance, Storage Capacity, Network Bandwidth, and Energy Savings*. Submitted to NSF.
- Wang, A. (2004). *CAREER: Modernizing Operating Systems Storage Infrastructure and I/O Benchmarks toward Memory-Rich Environments*. Submitted to NSF.
- Wang, A. (2004). *NeTS-NR: Physics-Inspired and Stateless Routes for Reliable Coordination in Mobile Ad Hoc Networks*. Submitted to NSF.
- Burmester, M., Wang, A., & Yasinsac, A. (2004). *Cyber Trust: Secure Scalable Routing in MANETs*. Submitted to NSF.

Postdoctoral Supervision

Stanovich, M. (May–Aug 2015).

Diesburg, S. (Jan–Aug 2013).

Reviews of My Research and Original Creative Work by Other Authors

Reviews Appearing in Magazines or Newsletters

Kathleen Haughney. (2015, May). NSF grant allows computer science students to work on energy efficient devices in Sweden. *Florida State 24/7*, 1.

Mueller, K. (2014, November). Neuroscience Student Wins Timed Thesis Competition. *Florida State 24/7*, 1.

- Nicole Brooks. (2013, October). Scholarships to Help Computer Science Fill Gaps in U.S. Job Market. *State*, 48(5), 12.
- Nicole Brooks. (2013, September). Computer Science Department Awarded More Than \$3.2 Million for Student Scholarships. *Florida State* 24/7, 1.
- Levine, K. (2009, October). Florida State Standouts: Sarah Diesburg. *Florida State Headlines*, 1.
- Blackhum, D. (2009, October). FSU Student Tackles 'Flash' Issues. *Tallahassee Democrat*, 1.
- Blackhum, D. (2009, October). FSU Student Develops Software Prototype to Erase Electronic Files. *Tallahassee Democrat*, 1.
- Hellstrom, S. (2009, May). Florida State doctoral students win top research scholarships. *FSU News*, 1.
- Hellstrom, S. (2009, March). Computer Science Professor Wins NSF 'Career' Award. *STATE: The Faculty-Staff Bulletin of the Florida State University*, 43(12), 1.
- Unknown. (2009, February). Wang Wins Award. *Tallahassee Democrat*, A.6.
- Hellstrom, S. (2009, February). FSU Computer Science Professor Wins NSF Early CAREER Award. *FSU News*, 1.
- Copps, E. (2009). Gone in a Flash. *Research in Review*, 61.
- Unknown. (2003, April). Conquest FS: The Disk is Dead. *Slashdot*, 1.
- Baltazar, H. (2002, June). DAFS, Conquest May Pave Way for Future File Systems. *eWeek*, 1.
- Heffron, M. (1990, April). Perpetuating a Love of Learning—and the Scientists of Tomorrow. *Los Angeles Times*, 1.

Service

Florida State University

FSU University Service

Member, Student Technology Fee Advisory Committee (2013–present).

Alternate, Faculty Senate (2019–2020).

Reviewer, FSU COFRS Grant Review Panel (2019).

Member, GPC Subcommittee (2019).

Panel member, NSF CAREER Workshop (2015).

Member, Graduate Policy Committee (2011–2012).

Panel member, NSF CAREER Workshop (2009–2011).

FSU Department Service

Chair, COP 4610 Course Committee (2015–present).

Member, Ph.D. Portfolio Committee (2005–present).

Chair, NSF S-STEM Scholarship Committee (2013–2025).

Chair, Promotion and Tenure Committee (2020–2021).

Director, Graduate Studies (2018–2021).

Member, Chair Selection Committee (2019–2020).

Member, Executive Committee (2019–2020).

Director, Graduate Curriculum Committee (2018–2020).

Member, Undergraduate Curriculum Committee (2018–2020).

Departmental Representative, Academic Honor Policy Hearings (2018–2019).

Member, Faculty Evaluation Committee (2017–2018).

Assistant Director, Graduate Studies (2016–2018).

Member, Graduate Curriculum Committee (2013–2018).

Director, Undergraduate Recruiting (2009–2018).

Judge, CS Expo (2015–2016).

Member, Departmental Website Development Committee (2015–2016).

Organizer, CS Honors Day (2014–2015).

Member, COP 4610 Course Committee (2006–2015).

Coordinator, FITC Career Fair (2014).

Member, Admission and Aid Committee (2011–2014).

Member, Course Scheduling Committee (2012–2013).

Member, Faculty Evaluation Committee (2011–2012).

Faculty Advisor, Student Groups ACM and ACM-W (2011–2012).

Member, Department Chair Search Committee (2010–2011).

Judge, FSU ACM Programming Contest (2005–2010).

Member, Undergraduate Curriculum Committee (2008–2009).

Member, Equipment and Network Committee (2007–2008).

Member, Faculty Evaluation Committee (2006–2007).

Judge, Second FSU Computer Science Graduate Research Conference (2005–2006).

Member, Equipment and Network Committee (2004–2005).

Member, Faculty Recruiting Committee (2004–2005).

Head Judge, FSU ACM Programming Contest (2004–2005).

Judge, FSU Computer Science Graduate Research Conference (2004–2005).

Member, Admission and Aid Committee (2003–2004).

Judge, FSU ACM Programming Contest (2003–2004).

Member, Graduate Curriculum Committee (2003–2004).

The Profession

Editorial Board Membership(s)

ACM Transactions on Storage (2016–2019).

Guest Reviewer for Refereed Journals

IEEE Transactions on Parallel and Distributed Systems (TPDS) (2019).

Elsevier Sustainable Computing, Informatics, and Systems (SUSCOM) (2018–19).

ACM Transactions on Architecture and Code Optimizations (TACO) (2017).

Elsevier Ad Hoc Networks (2013–16).

Elsevier Performance Evaluation Journal (PEVA) (2014).

IEEE Communication Letters (CL) (2014).

CIC China Communication (2013).

IEEE Transactions on Intelligent Transportation Systems (T-ITS) (2011–12).

IEEE Transactions on Computers (TC) (2008–12).

Elsevier Sustainable Computing Informatics and Systems (SUSCOM) (2011).

IEEE Communication Letters (CL) (2011).

ACM Computing Surveys (CSUR) (2010).

IEEE Transactions on Vehicular Technology (TVT) (2010).

IEEE Wireless Communications (WC) (2009).

ACM Transactions on Computers (TOCS) (2008).

IEEE Transactions on Mobile Computing (TMC) (2006–07).

Reviewer for Textbooks

Linux, the Textbook, 2nd Edition, Taylor and Francis Group (2017).

System Administration, McGraw-Hill Higher Education (2009).

The Handbook of Computer Networks, John Wiley and Sons (2006).

Reviewer or Panelist for Grant Applications

National Science Foundation (2012–2013).

Department of Energy (DoE) (2010).

Natural Sciences and Engineering Research Council of Canada (NSERC) (2010).

Service to Professional Associations

Reviewer, ACM Special Interest Group on Computer Science Education (SIGCSE) (2019–2020).

Program Committee Member, USENIX Conference on File and Storage Technologies (FAST) (2017).

Reviewer, Annual IFIP WG 11.9 International Conference on Digital Forensics (2015–2016).

Reviewer, IEEE Real-Time Systems Symposium (RTSS) (2014).

Reviewer, ACM International Conference on Supercomputing (ICS) (2013).

Program Committee Member, ACM Annual International Systems and Storage Conference (SYSTOR) (2012).

Reviewer, IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS) (2012).

Program Committee Member, IEEE Symposium on Massive Storage Systems and Technologies (MSST) (2012).

Program Committee Member, IEEE International Conference on Networking, Architecture, and Storage (NAS) (2011).

Program Committee Member, International Workshop on Operating System Support for Next Generation Large Scale NVRAM (NVRAMOS) (2011).

Program Committee Member, ACM Annual International Systems and Storage Conference (SYSTOR) (2010).

Reviewer, ACM/SigArch International Conference on Supercomputing (ICS) (2010).

Track Program Committee Member, IEEE Vehicular Networks and Applications Workshop, IEEE International Conference on Communications (ICC) (2010).

- Shadow Program Committee Member, ACM Symposium on Operating Systems Principles (SOSP) (2009).
- Reviewer, IEEE International Conference on Communications 2009 (ICC) (2009).
- Reviewer, IEEE International Conference on Networked Digital Technologies (NDT) (2009).
- Program Committee Member, IEEE International Conference on Networking, Architecture, and Storage (NAS) (2009).
- Track Program Committee Member, International Conference on Parallel Processing (ICPP) (2009).
- Reviewer, USENIX Conference on File and Storage Technologies (FAST) (2009).
- Reviewer, IEEE Real-Time Systems Symposium (RTSS) (2008–2009).
- Reviewer, ACM Annual Symposium on Applied Computing 2008 (SAC) (2008).
- Reviewer, Euromicro Conference on Real-Time Systems (ECRTS) (2008).
- Reviewer, IEEE Annual International Conference on High Performance Computing (HiPC) (2008).
- Program Committee Member, IFIP International Conference on Embedded and Ubiquitous Computing (EUC), 2008 (2008).
- Reviewer, International Conference on Principles of Distributed Systems (OPODIS) (2008).
- Reviewer, International Conference on Supercomputing (ICS) (2007–2008).
- Reviewer, IEEE Real-Time and Embedded Technology and Applications Symposium (RTAS) (2006–2007).
- Reviewer, IEEE International Conference on Network Protocols (ICNP) (2006).
- Reviewer, International Symposium on High-Performance Computer Architecture (HPCA) (2006).
- Reviewer, International Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS) (2005).
- Reviewer, USENIX Conference on File and Storage Technologies (FAST) (2005).

Reviewer, International Conference on Quality of Service in Heterogeneous Wired/Wireless Networks (2004).

Program Committee Member, International Workshop on Network Design and Architecture 2004 (2004).

Reviewer, Annual ACM Symposium on Applied Computing 2004 (SAC) (2003).

The Community

Technical Support, The School of Arts and Sciences (2016–2017).

Presenter, Science Night, The School of Arts and Sciences (2017).