ANDREW QUINN

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EDUCATION

University of Michigan	Ann Aroor, MI
Ph.D., Computer Science and Engineering	(Sep 2015–Dec 2021)
Thesis: Data-Centric Execution Inspection	
University of Michigan	$Ann\ Arbor,\ MI$
M.S., Computer Science and Engineering	(Sep 2015–May 2017)
Denison University	Granville, OH
B.S., Computer Science and B.A., Mathematics	(Aug 2010–May 2014)
Honors: summa cum laude, Phi Beta Kappa, Deans List	

AWARDS & FUNDING

(2022)
(2021)
(2021)
(2017)
(2017)
(2014)
(2014)

PEER-REVIEWED CONFERENCE PUBLICATIONS

- 1. Andrew Quinn, Michael Cafarella, Jason Flinn, and Baris Kasikci. *Debugging the OmniTable Way*. In Proceedings of the 2022 USENIX Symposium on Operating Systems Design and Implementation (OSDI). July 2022. Acceptance Rate: 49/253 = 19.4%
- 2. Jiacheng Ma, Gefei Zuo, Kevin Loughlin, Haoyang Zhang, **Andrew Quinn**, and Baris Kasikci. *Debugging in the Brave New World of Reconfigurable Hardware*. In Proceedings of the Twenty-Seventh International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS). February 2022. Acceptance Rate: 80/397 = 20.1%
- 3. Gefei Zuo, Jiacheng Ma, **Andrew Quinn**, Pramod Bhatotia, Pedro Fonseca, and Baris Kasikci. *Reproducing Production Failures with Execution Reconstruction*. In Proceedings of the 42nd ACM SIGPLAN Conference on Programming Language Design and Implementation. June 2021. Acceptance Rate: 87/320 = 27.2%
- 4. Ian Neal, **Andrew Quinn**, and Baris Kasikci. *Hippocrates: Healing Persistent Memory Bugs Without Doing Any Harm*. In the Proceedings of the Twenty-Sixth International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS). April 2021. Acceptance Rate: 75/398 = 18.8%
- 5. Ian Neal, Ben Reeves, Ben Stoler, **Andrew Quinn**, Youngjin Kwon, Simon Peter and Baris Kasikci. *Agamotto: How Persistent is your Persistent Memory Application?*. In Proceedings of the 2020 USENIX Symposium on Operating Systems Design and Implementation (OSDI). November 2020. Acceptance Rate: 70/398 = 17.6%

- 6. Andrew Quinn, Jason Flinn, and Michael Cafarella. Sledgehammer: Cluster-fueled Debugging. In Proceedings of the 2018 USENIX Symposium on Operating Systems Design and Implementation (OSDI). October 2018. Acceptance Rate: 47/264 = 17.8%
- 7. Andrew Quinn, David Devecsery, Peter M. Chen and Jason Flinn. *JetStream: Cluster-scale Parallelization of Information Flow Queries*. In Proceedings of the 2016 USENIX Symposium on Operating Systems Design and Implementation (OSDI). November 2016. Acceptance Rate: 47/267 = 17.6%

PEER-REVIEWED WORKSHOP PUBLICATIONS

- 1. Matt Furlong, **Andrew Quinn**, and Jason Flinn. *The case for Determinism on the Edge*. In 2nd USENIX Workshop on Hot Topics in Edge Computing (HotEdge). July 2019. Acceptance Rate: 22/39 = 56%
- 2. Andrew Quinn, Michael Cafarella, and Jason Flinn. You can't debug what you can't see: Expanding observability with the OmniTable. In Proceedings of the Workshop on Hot Topics in Operating Systems (HotOS). May 2019. Acceptance Rate: 30/125 = 24%

TALKS

1. Data-Centric Debugging or: How I learned to stop worrying and use 'Big-Data' Techniques to Diagnose Software Bugs.	$(\mathrm{May}\ 2022)$
Berkeley/Stanford/UCSC Cloud Workshop	
2. You can't debug what you can't see: Expanding Observability with	(May 2019)
the OmniTable. Workshop on Hot Topics in Operating Systems (HotOS)	
3. Sledgehammer: Cluster-fueled Debugging. USENIX Symposium on	(Oct 2018)
Operating Systems Design and Implementation (OSDI)	
4. JetStream: Cluster-Scale Parallelization of Information Flow Queries.	(Nov 2016)
USENIX Symposium on Operating Systems Design and Implementation (OSDI)	
5. Power Management for Malleable Job Scheduling. Denison University	(Apr 2014)
department of Math and Computer Science FaST talk	

SERVICE

1. ASPLOS . External Review Committee Member	(2021), (2022)
2. Eurosys. Program Committee Member	(2022)
3. PLDI Student Research Competition. Program Committee Member	(2022)
4. SOSP. Mentorship chair	(2021)
5. SOSP. AMA Moderator	(2021)
6. Discover Engineering. University of Michigan, Ann Arbor, MI	(Aug 2019)
7. Techie Club . Georgian Heights Elementary, Columbus, OH	$(Aug\ 2014-Aug\ 2015)$
8. A Call to College. Newark Elementary Schools, Newark, OH	(Sep 2012–Dec 2013)

TEACHING

- 1. Fall 2022, Fall 2023. UC Santa Cruz. CSE 231—Advanced Operating Systems
- 2. Spring 2022. UC Santa Cruz. CSE 130—Introduction to Computer Systems

PROFESSIONAL EXPERIENCE

1. Assistant Professor. University of California, Santa Cruz, Santa Cruz, CA.	(Jul 2021–Present)
2. Graduate Student. Advisor: Dr. Jason Flinn and Dr. Baris Kasikci,	(Sep 2015–Sep 2021)
University of Michigan, Ann Arbor, MI	
3. Research Intern. Mentor: Dr. Suman Nath, Microsoft Corp., Redmond, WA	$(May\ 2017-Aug\ 2017)$
4. Software Development Engineer. International Business Machines (IBM),	(Jun 2014–Aug 2015)
Dublin, OH	,