

Supreeth Shastri

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Education

- 2018 - 2020 **University of Texas at Austin**, Austin, TX
Postdoctoral Fellow in Computer Science. Host: Prof. Vijay Chidambaram.
Research: Investigated the impact of GDPR compliance on database systems.
- 2014 - 2018 **University of Massachusetts Amherst**, Amherst, MA
PhD in Electrical and Computer Engineering. Advisor: Prof. David Irwin.
Thesis: System Support for Managing Risk in Cloud Computing Platforms.
- 2006 - 2009 **Columbia University**, New York, NY
MS in Computer Science and Electrical Engineering. Advisor: Prof. Henning Schulzrinne.
Research: VoIP system for training ATCs at the US Federal Aviation Administration.
- 1998 - 2002 **PES Institute of Technology** (now PES University), Bangalore, India
BE in Computer Science. Advisor: Prof. Shylaja Sharath.
Senior project: Image reconstruction software for ASTROSAT (India's first space observatory).

Professional Experience

- 2020 – cur. **University of Iowa**, Iowa City, IA
Assistant Professor, Department of Computer Science
- 2010 – 2014 **Cisco Systems**, San Jose, CA
Software Engineer, Datacenter Switching Group
- Summer 2009 **Philips Research**, Briarcliff Manor, NY
Research Intern, Energy Efficient Networking Group
- Summer 2008 **NEC Labs**, Princeton, NJ
Research Intern, Mobile Communications and Networking Department
- 2005 – 2006 **ARM**, Bangalore, India & Cambridge, UK
Software Engineer, Embedded Software Division
- 2003 – 2005 **Ittiam Systems**, Bangalore, India
Multimedia Software Engineer
- 2002 – 2003 **Infosys Technologies**, Bangalore, India
Software Engineer
- Summer 2002 **Raman Research Institute**, Bangalore, India
Research Intern, Department of Astronomy and Astrophysics

Publications

Preprint

In preparation Aastha Mehta, Mohammad Shahradd, and **Supreeth Shastri**. GDPRisc: GDPR Inversions in Serverless Computing.

Peer-reviewed Conferences and Journals

- PETS 2023 Chen Sun, Evan Jacobs, Daniel Lehmann, Andrew Crouse, and **Supreeth Shastri**. GDPRxiv: Establishing the State of the Art in GDPR Enforcement. In *Proceedings on Privacy Enhancing Technologies 2023*(4).
- CACM 2021 **Supreeth Shastri**, Melissa Wasserman, and Vijay Chidambaram. GDPR Anti-Patterns. In *Communications of the ACM*, 64(2), 2021.
- VLDB 2020 **Supreeth Shastri**, Vinay Banakar, Melissa Wasserman, Arun Kumar, and Vijay Chidambaram. Understanding and Benchmarking the Impact of GDPR on Database Systems. In *Proceedings of Very Large Data Bases 13*(7), 2020.
- SoCC 2018 **Supreeth Shastri** and David Irwin. Cloud Index Tracking: Enabling Predictable Costs in Cloud Spot Markets. In *ACM Symposium on Cloud Computing*, 2018.
- SoCC 2017 **Supreeth Shastri** and David Irwin. HotSpot: Automated Server Hopping in Cloud Spot Markets. In *ACM Symposium on Cloud Computing*, 2017.
- SC 2016 **Supreeth Shastri**, Amr Rizk, and David Irwin. Transient Guarantees: Maximizing the Value of Idle Cloud Capacity. In *ACM/IEEE International Conference for High Performance Computing, Networking, Storage and Analysis*, 2016.
- SoCC 2015 **Supreeth Subramanya**, Tian Guo, Prateek Sharma, David Irwin, and Prashant Shenoy. SpotOn: A Batch Computing Service for the Spot Market. In *ACM Symposium on Cloud Computing*, 2015.
- IEEE Comm. Mag. 2009 **Supreeth Subramanya**, Xiaotao Wu, Henning Schulzrinne, and Susan Buriak. VoIP-Based Air Traffic Controller Training. In *IEEE Communications Magazine*, 47(11), 2009.

Peer-reviewed Workshops

- HotCloud 2019 **Supreeth Shastri**, Melissa Wasserman, and Vijay Chidambaram. The Seven Sins of Personal-Data Processing Systems under GDPR. In *USENIX Workshop on Hot Topics in Cloud Computing*.
- HotStorage 2019 Aashaka Shah, Vinay Banakar, **Supreeth Shastri**, Melissa Wasserman, and Vijay Chidambaram. Analyzing the Impact of GDPR Compliance on Storage Systems. In *USENIX Workshop on Hot Topics in Storage and File Systems*, 2019.
- HotCloud 2017 **Supreeth Shastri** and David Irwin. Towards Index-based Global Trading in Cloud Spot Markets. In *USENIX Workshop on Hot Topics in Cloud Computing*, 2017.
- HotCloud 2016 **Supreeth Subramanya**, Amr Rizk, and David Irwin. Cloud Spot Markets are Not Sustainable: The Case for Transient Guarantees. In *USENIX Workshop on Hot Topics in Cloud Computing*, 2016.
- LIMITS 2015 **Supreeth Subramanya**, Zain Mustafa, David Irwin, and Prashant Shenoy. Energy-Agility: A New Grid-centric Metric for Evaluating System Performance. In *ACM Workshop on Computing within Limits*, 2015.

Teaching

- Fa '21, '22 **University of Iowa, CS5630 Cloud Computing**
Instructor for the graduate course on computing and data analytics on the cloud (34 students).
Developed the course from scratch. More details at <https://shastri.info/teaching/cs5630/>
- Sp '20, '21, '22 **University of Iowa, CS3640 Introduction to Networking**
Instructor for the introductory networking course for undergraduates (59 students).
Redesigned the course for online delivery. More details at <https://shastri.info/teaching/cs3640/>
- Sp '22 **University of Iowa, CS5980 Computing Research and Ethics**
The graduate seminar on the ethical issues arising in computer science (13 students).
Co-taught the course. More details at <https://shastri.info/teaching/cs5980/>
- Sp '08 **Columbia University, VoIP Workshop**
Conceived and conducted a 4-day workshop on VoIP technologies for a delegation of system administrators from the US Federal Aviation Administration. I taught 5 (out of 8) technical sessions and 6 (out of 8) hands-on lab exercises.

Advising and Mentoring

Advising at University of Iowa

- 2021 - Chen Sun (PhD advisor)
2022 - Anna Davis (MS research advisor)
2020 - Umar Iqbal, Hammad Mazhar, Adnan Ahmad (PhD committee member)
Fall 2021 Evan Jacobs (Undergraduate research advisor)
Spring 2021 Alex Pang, Logan Vogt (Undergraduate research advisor)

Mentoring at University of Texas at Austin

- 2018-2020 Aashaka Shah (PhD); Vinay Banakar (Visiting Fellow);
Daniel Lehmann, Abby Krishnan, Anirudh Goyal (Undergraduate research)

Mentoring at University of Massachusetts Amherst

- 2015-18 Pradeep Ambati (PhD)
2014-15 Zain Mustafa, Jiannan Tian (MS)

Professional Service

Program Committee

- 2024 PETS
2020 ACM SoCC, USENIX HotStorage
2019 IEEE CLOUD, IEEE ICDCS, ACM SoCC

Organizing Committee

- 2020, 2021 ACM SoCC (*Publicity chair*)
2019 ACM SOSP (*Artifact evaluation co-chair*); ACM SoCC (*Social media chair*)
2018 NSF workshop on Cloud Economics (*webmaster*); ACM SoCC (*Social media chair*)

Other Service

2010-20	<i>Journal reviewer for Communications of the ACM (CACM), IEEE Communications magazine, IEEE Transactions on Parallel and Distributed Systems (TPDS), Elsevier Future Generation Computer Systems (FGCS)</i>
2022	<i>Reviewer, Graduate Research Fellowship Program (GRFP) at NSF</i>
2021	<i>Alumni relations chair (CS) at University of Iowa</i>
2020	<i>Graduate admission committee member (CS) at UT Austin</i>
2017-19	<i>Shadow program committee member for ACM EuroSys 2017, ACM IMC 2018, ACM EuroSys 2019</i>

Public/Research Talks

3/2022	<i>Database Indexing and Query Processing (seminar #22111), Invited participant at Dagstuhl</i>
9/2021	<i>Panel on Law and Computing, Invited panelist at GECON 2021 (virtual)</i>
11/2020	<i>Legalizing Personal-Data Systems, Invited talk at Grinnell College (virtual)</i>
9/2020	<i>Understanding and Benchmarking the Impact of GDPR on Database Systems at VLDB (virtual)</i>
4/2020	<i>When Computing Meets Law and Economics, Invited talk at the University of Edinburgh</i>
3/2020	<i>When Computing Meets Law and Economics, Invited talk at the University of Iowa</i>
3/2020	<i>When Computing Meets Law and Economics, Invited talk at George Washington University</i>
3/2020	<i>When Computing Meets Law and Economics, Invited talk at College of William and Mary</i>
7/2019	<i>The Seven Sins of Personal-Data Processing Systems under GDPR at HotCloud (Renton, WA)</i>
7/2019	<i>Analyzing the Impact of GDPR Compliance on Storage Systems at HotStorage (Renton, WA)</i>
10/2018	<i>Cloud Index Tracking: Enabling Predictable Costs in Spot Markets at SoCC (Carlsbad, CA)</i>
1/2018	<i>Financializing Cloud Computing, Invited talk at the University of Illinois (Chicago, IL)</i>
9/2017	<i>HotSpot: Automated Server Hopping in Cloud Spot Markets at SoCC (Santa Clara, CA)</i>
7/2017	<i>Towards Index-based Global Trading in Cloud Spot Markets at HotCloud (Santa Clara, CA)</i>
11/2016	<i>Transient Guarantees: Maximizing the Value of Idle Cloud Capacity at SC (Salt Lake City, UT)</i>
6/2016	<i>Cloud Spot Markets are Not Sustainable: A Case for Transient Guarantees at HotCloud (Denver, CO)</i>
8/2015	<i>SpotOn: A Batch Computing Service for the Spot Market at SoCC (Kohala Coast, HI)</i>
6/2015	<i>Energy-Agility: A New Grid-centric Metric for Evaluating System Performance at LIMITS (Irvine, CA)</i>