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

arXiv 2021 | Daniel Lehmann, Anya Prince, and **Supreeth Shastri**. GDPRxiv: Tracking GDPR Enforcement in the Wild. *In arXiv:XXXX.YYYYY [cs.CY]*.

Peer-reviewed Conferences

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.

ICPE 2016 | **Supreeth Subramanya**, Zain Mustafa, David Irwin, and Prashant Shenoy. Beyond Energy-Efficiency: Evaluating Green Datacenter Applications for Energy Agility. In *ACM International Conference on Performance Engineering*, 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.

Peer-reviewed Journals

CACM 2021 | **Supreeth Shastri,** Melissa Wasserman, and Vijay Chidambaram. GDPR Anti-Patterns. In *Communications of the ACM, 64(2), 2021*.

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.

Invited Papers

ICCCN 2019   David Irwin, Prashant Shenoy, Pradeep Ambati, Prateek Sharma, and **Supreeth Shastri**. The Price is (Not) Right: Reflections on Pricing for Transient Cloud Servers. In *IEEE International Conference on Computer Communications and Networks*, 2019.

ICCCN 2017   David Irwin, Prateek Sharma, **Supreeth Shastri** and Prashant Shenoy. The Financialization of Cloud Computing: Opportunities and Challenges. In *IEEE International Conference on Computer Communications and Networks*, 2017.

——— Recognition

2018	Invited participant, NSF Workshop on Cloud Economics, Stanford University
2010	Named inventor, VoIP technology license managed by Columbia University Tech Ventures
2006	Co-creator of a VoIP software deployed at the US Federal Aviation Administration in Oklahoma

——— Teaching

Spring 2021   **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/

Fall 2008   **Columbia University,** *COMS 4995 VoIP Security*
Teaching assistant to Prof. Henning Schulzrinne. Graduate course with 30 students.
Handled all course logistics including lab supervision, project advising and course grading.

Spring 2008   **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)
2021 -	Umar Iqbal (PhD committee member)
2020 -	Hammad Mazhar (PhD committee member)
Spring 2021	Alex Pang, Logan Vogt (Undergraduate research)

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	Zain Mustafa (MS)

Professional Service

Organizing Committee

2021	ACM SoCC (Web *chair*)
2020	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*)

Program Committee

2020	ACM SoCC, USENIX HotStorage
2019	IEEE CLOUD, IEEE ICDCS, ACM SoCC

Other Service

2010-19	*Journal reviewer* for IEEE Communications magazine, IEEE Transactions on Parallel and Distributed Systems (TPDS), Elsevier Future Generation Computer Systems (FGCS)
2017-19	*Shadow program committee member for ACM EuroSys 2017, ACM IMC 2018, ACM EuroSys 2019*
2020	*Graduate admission committee member at UT Austin*

Public/Research Talks

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