

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 data processing 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

- 8/2020 – cur. **University of Iowa**, Iowa City, IA
Assistant Professor, Department of Computer Science
- 5/2010 – 1/2014 **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
- 3/2005 – 7/2006 **ARM**, Bangalore, India & Cambridge, UK
Software Engineer, Embedded Software Division
- 6/2003 – 1/2005 **Ittiam Systems**, Bangalore, India
Multimedia Software Engineer
- 9/2002 – 5/2003 **Infosys Technologies**, Bangalore, India
Software Engineer
- Summer 2002 **Raman Research Institute**, Bangalore, India
Research Intern, Department of Astronomy and Astrophysics

Publications

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/SPEC on 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 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*, 2019.
- 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.

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.

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.

Professional Service

Organizing Committee

- 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: The 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)*

Teaching and Mentoring

- Mentoring**
 - University of Texas at Austin:** Aashaka Shah (PhD), Vinay Banakar (Visiting Fellow), Daniel Lehmann (Undergraduate, exchange student), Abby Krishnan and Anirudh Goyal (Undergraduates)
 - University of Massachusetts Amherst:** Zain Mustafa (MS) and Pradeep Ambati (PhD)
 - Cisco Systems:** led technical on-boarding of four new software engineers (2012 - 2013)
- Fall 2008**
 - Columbia University,** Teaching Assistant
 - Assisted Prof. Henning Schulzrinne in teaching COMS 4995 VoIP Security (~30 graduate students).
 - Handled all course logistics including lab supervision, project advising and course grading.
- Spring 2008**
 - Columbia University,** Organizer and Instructor for VoIP Workshop
 - Conceived and conducted a 4-day workshop on VoIP technologies and administration for a delegate 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.

Recognition

2018	Invited participant, NSF Workshop on Cloud Economics
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