

SRIKANTH SUNDARESAN

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SUMMARY

I am interested in the design and evaluation of networked systems. My expertise is in network measurements and characterization, and my research focuses on performance issues in wired and wireless networks, and application services. I am also interested in network architectures, routing, management, and security.

CURRENT POSITION

International Computer Science Institute
Post-doctoral Fellow

Berkeley, CA
August 2014 – Current

EDUCATION

Georgia Institute of Technology
Ph.D., Computer Science

Atlanta, GA
August 2008 – July 2014

University of Massachusetts
M.S., Computer Systems Engineering

Amherst, MA
August 2005 – February 2008

Malaviya National Institute of Technology
B.Tech. (Honors), Electrical Engineering

Jaipur, India
September 2000 – June 2004

AWARDS AND RECOGNITIONS

- Doctoral Dissertation Award 2014**, College of Computing, Georgia Institute of Technology.
- The **Community Contribution Award** at IMC 2013.
- The 2012 **IRTF Applied Networking Research Prize**.
- My work has been published as a **Research Highlight** by the Communications of the ACM.

SELECTED PUBLICATIONS

- Header Enrichment or ISP Enrichment? Emerging Privacy Threats in Mobile Networks.** N. Vallina-Rodriguez, S. Sundaresan, C. Kreibich, V. Paxson. **ACM Workshop on Hot Middleboxes** 2015.
- Beyond the Radio: Illuminating the Higher Layers of Mobile Networks.** N. Vallina-Rodriguez, S. Sundaresan, C. Kreibich, N. Weaver, V. Paxson. **ACM Mobisys** 2015.
- uCap: An Internet Data Management Tool for the Home.** M. Chetty, H. Kim, S. Sundaresan, N. Feamster, W. K. Edwards. **ACM CHI** 2015.
- Measuring the Performance of User Traffic in Home Wireless Networks.** S. Sundaresan, N. Feamster, R. Teixeira. **PAM** 2015.
- BISmark: A Testbed for Deploying Measurements and Applications in Broadband Access Networks.** S. Sundaresan, S. Burnett, N. Feamster, W. de Donato. **USENIX ATC** 2014.
- Measuring and Mitigating Web Performance Bottlenecks in Broadband Access Networks.** S. Sundaresan, N. Feamster, R. Teixeira, N. Magharei. **ACM IMC** 2013.
- Broadband Internet Performance: A View From The Gateway.** S. Sundaresan, W. de Donato, N. Feamster, R. Teixeira, S. Crawford, A. Pescapè. **ACM SIGCOMM** 2011.
- Autonomous Traffic Engineering With Self-Configuring Topologies.** S. Sundaresan, C. Lumezanu, N. Feamster, P. Francois. *Poster at ACM SIGCOMM* 2010.
- Event-Driven Adaptive Duty-Cycling in Sensor Networks.** S. Sundaresan, I. Koren, Z. Koren, C. M. Krishna. *The International Journal of Sensor Networks* 2009.

PREVIOUS PROFESSIONAL EXPERIENCE

Guavus Inc.

May 2013 — August 2013

- Characterized usage behavior of 3G and 4G customers of a large US-based mobile ISP.

Telefónica I+D

June 2012 — August 2012

- Developed techniques to locate home Internet performance degradation using cross-layer techniques.

Laboratoire d'Informatique de Paris 6

May 2009 — August 2009

- Analyzed broadband performance using data from 12,000 homes in France.

Qualcomm, San Diego, CA July 2007 — November 2007, March 2008 — July 2008

- Analysis and optimization of power consumption for multimedia in Qualcomm mobile chip-sets.

Infosys Technologies Ltd., India

July 2004 — July 2005

- Worked on testing Oracle database systems. Experience in C/C++, Oracle, PL/SQL.

COMPUTER SKILLS

- Languages: Python, C, Java, Assembly Language (MIPS, 8085/86), Shell programming
- Other: OpenWRT, Android Development, MySql, PostgreSQL, NS-2, TinyOS, Trace32 on ARM

SELECTED TALKS

- **Demystifying Home Networks (A Bit):**
 - Google, 2014
 - Meraki, 2014
- **Locating Performance Bottlenecks in Home Networks:**
 - Netflix, Los Gatos 2013
 - NANOG 64, San Francisco, 2015
- **Characterizing and Mitigating Web Performance Bottlenecks in Home Networks: NANOG 60, 2014**
- **Broadband Internet Performance**
 - Stanford University Networking Seminar, 2011
 - EECS, University of California, Berkeley, 2011
 - Microsoft Research, Bangalore, 2011
- **Traffic Engineering using Self-Configuring Link Weights: NANOG, 2010**

REFERENCES

- **Professor Nick Feamster**, Georgia Institute of Technology, *feamster@cc.gatech.edu*
- **Dr. Renata Teixeira**, INRIA, *renata.teixeira@inria.fr*
- **Professor C. Mani Krishna**, University of Massachusetts Amherst, *krishna@ecs.umass.edu*