Meenakshi Syamkumar

1210 West Dayton St., Madison, WI - 53706.
Phone: (608) 770-5553, E-mail: ms@cs.wisc.edu
http://pages.cs.wisc.edu/~ms/

Research Interests

Computer Networks: Internet measurements and analysis, and cloud computing.

Education

Ph.D. Computer Sciences	Sep 2013 - Present

- University of Wisconsin-Madison, USA — Expected: Spring 2019
  Adviser: Dr. Paul Barford

M.S. Computer Sciences	Sep 2013 - Present

- University of Wisconsin-Madison, USA — Expected: Fall 2018
  CGPA 4.0/4.0

B.Tech. Information Technology	Aug 2005 - Apr 2009

- PSG College of Technology, Anna University, India
  CGPA: 3.78/4.0

Publications

- Meenakshi Syamkumar, Paul Barford, and Ramakrishnan Durairajan. "Deployment Characteristics of "The Edge" in Mobile Edge Computing", In *Proceedings of Workshop on Mobile Edge Communications (ACM MECOMM, co-located with ACM SIGCOMM)*, Budapest, Hungary, August, 2018

- Meenakshi Syamkumar, Sathiya Kumaran Mani, Ramakrishnan Durairajan, Paul Barford, and Joel Sommers. "Wrinkles in Time: Detecting Internet-wide Events via NTP", In *Proceedings of the IEEE IFIP Networking*, Zurich, Switzerland, May, 2018

- Meenakshi Syamkumar, Ramakrishnan Durairajan, and Paul Barford. "Bigfoot: A Geo-based Visualization Methodology for Detecting BGP Threats", In *Proceedings of the IEEE Symposium on Visualization for Cybersecurity (VizSec)*, Baltimore, MD, October, 2016

- Mukta Gupta, Ramakrishnan Durairajan, Meenakshi Syamkumar, Paul Barford, and Joel Sommers. "pfs: Parallelized, Flow-based Network Simulation", In *Proceedings of ACM SummerSim*, Chicago, IL, July, 2015

Teaching Experience

- **Guest Lectures: Advanced Computer Networks (CS740)** — Fall 2018
  University of Wisconsin-Madison, USA
    - Active measurements: Packet loss, packet delays, and throughput
    - TCP over wireless: Link layer protocols, split connection protocols, and end-to-end protocols

- **Instructor: Grandparents University CS Major** — Summer 2018
  University of Wisconsin-Madison, USA
    - Platform: Scratch

- **Instructor: Android Programming Workshop for Freshman** — Spring 2018
  University of Wisconsin-Madison, USA
    - Platform: MIT App Inventor

- **Guest Lectures: Introduction to Computer Networks (CS640)** — Fall 2017
  University of Wisconsin-Madison, USA
    - Application Layer: WWW, HTTP, DNS, SMTP
    - Network Security: Confidentiality, Integrity, and Authentication

- **Instructor: Introduction to Data Structures (CS367)** — Summer 2017
  University of Wisconsin-Madison, USA
    - Enrollment: 83
    - Course Evaluation: 5.3/7.0
    - Webpage: http://pages.cs.wisc.edu/~ms/cs367-summer2017/
- **Teaching Assistant: Introduction to Data Structures (CS367)** — Spring 2014
  University of Wisconsin-Madison, USA
- **Teaching Assistant: Problem Solving for Engineers (CS310)** — Fall 2013
  University of Wisconsin-Madison, USA

Professional Experience

- **Graduate Research Assistant** — Sep 2013 - Present
  University of Wisconsin-Madison, USA — Adviser: Dr. Paul Barford
- **Software Development Intern** — Jun 2016 - Aug 2016
  Microsoft, USA
- **Software Intern in Application Development** — Jun 2014 - Aug 2014
  Cisco Systems, USA
- **Software Development Engineer in Test** — Jun 2009 - Jul 2013
  Citrix R&D India Pvt L.T.D, India
- **Software Intern in Test Development** — Nov 2008 - Jun 2009
  Citrix R&D India Pvt L.T.D, India

Technology Skills

- *Programming & Scripting Languages*: Python, C, C++, Java, PERL, Matlab, R
- *Databases*: MySQL, Oracle, SQLite
- *Web Technologies*: HTML, CSS, XML, JavaScript
- *Networking*: HTTP, TCP, IPv4/IPv6, SNMP, BGP, NTP
- *Virtualization Technologies*: Citrix XenServer, Microsoft HyperV, VMWare ESX
- *Cloud Technologies*: Amazon AWS
- *GIS*: ESRI ArcGIS

Awards

- Travel grants for SIGCOMM'18 (N2Women grant), GHC'17, GHC'16, SIGCOMM'16, SIGCOMM'15
- Computer Sciences Departmental Thanks Award for service to GHC booth — May 2018
- Computer Sciences Departmental Thanks Award for service to ACM-W UW-Madison chapter — April 2017
- Graduate Peer Mentor Award, Bucky's Awards, UW-Madison — April 2017
- Letter of Appreciation at Citrix Systems — Jul 2012
- Anna University **Gold Medalist**, first rank among 65 students — Feb 2010
- Best All Rounder of the Department of Information Technology — Mar 2009
- Outstanding Senior Volunteer award of National Service Scheme, PSG College of Technology — Jul 2008

Service

- Graduate Student Advisor of ACM-W UW-Madison chapter — Present
- Shadow PC: ACM IMC — 2018
- Organized the N2Women dinner at SIGCOMM — 2018
- Represented the Department of Computer Sciences, UW-Madison at ABI GHC's career fair — 2017
- President of ACM-W UW-Madison chapter — 2016-2017
- Secretary of ACM-W UW-Madison chapter — 2015-2016
- Secretary of Institute of Engineers (IE), Student Chapter, PSG College of Technology — 2008-2009
- Representative of the class, PSG College of Technology — 2007-2008

References

- **Dr. Paul Barford**
  Professor, Department of Computer Sciences
  University of Wisconsin-Madison
  Email: pb@cs.wisc.edu
  (608) 262-6609

- **Dr. Andrea Arpaci-Dusseau**
  Professor, Department of Computer Sciences
  University of Wisconsin-Madison
  Email: dusseau@cs.wisc.edu
  Phone: (608) 265 6013

- **Dr. Joel Sommers**
  Associate Professor and Chair, Department of Computer Sciences
  Colgate University
  Email: jsommers@colgate.edu
  Phone: (315) 228 7587

- **Dr. Ramakrishnan Durairajan**
  Assistant Professor, CIS
  University of Oregon
  Email: ram@cs.uoregon.edu
  (541) 346-4425