

Ramakrishnan Sundara Raman

PhD Candidate, University of Michigan

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🔗 <https://ramakrishnansr.com/>

🌐 [ramakrishnansundararaman](#)

Fifth-year PhD Candidate in Computer Science with expertise in Internet security, privacy and measurements. Published 9 conference papers (5 first author), 2 workshop papers (1 first author), 3 technical reports, and 2 posters. Recipient of an IRTF Applied Networking Research Prize (ANRP), a Rackham Predoctoral Fellowship, and an OTF Information Controls Fellowship. Experienced in developing large-scale networking and measurement tools that detect attacks on reachability of online services.

Education

- **PhD Candidate, University of Michigan** in *Computer Science and Engineering*
CGPA: 3.95 out of 4 📅 2018 – Present
Awards: IRTF ANRP, HotPETs Best Talk, Rackham Predoctoral Fellowship, OTF Information Controls Fellowship, North Campus Deans' MLK Spirit Award, CSE GSI Honorable Mention
- **Bachelor of Technology, Vellore Institute of Technology** in *Computer Science and Engineering*
CGPA: 9.69 out of 10 📅 2013 – 2017
Awards: 2nd rank out of 648 in CSE

Experience

- **Research Intern** at *Cloudflare Inc.* 📅 July 2022 – September 2022
Developed network data analysis tools for detecting large-scale traffic tampering from an operator's point of view.
- **OTF Senior ICFP Fellow in Information Controls** at *The Citizen Lab* 📅 November 2021 – July 2022
Researched novel measurement methods for locating and examining network censorship devices and studied their deployments in different countries.
- **Graduate Student Instructor** at *The University of Michigan* 📅 August 2020 – December 2020
Led a graduate-level computer and network security class.
- **Associate Consultant** at *Microsoft Global Delivery* 📅 July 2017 – May 2018
Contributed to enterprise systems for business applications that can deliver value to large.
- **Research Intern** at *The University of Maryland* 📅 March 2017 – July 2017
Built measurement and analysis tools to study last-mile residential Internet outages in areas affected by severe weather conditions.

Selected Publications (2 of 11)

- **Network Measurement Methods for Locating and Examining Censorship Devices**
R. Sundara Raman*, M. Wang*, J. Dalek, J. Mayer, and R. Ensafi
ACM Conference on emerging Networking EXperiments and Technologies (CoNEXT), December 2022
🏆 IRTF Applied Networking Research Prize
🔗 https://ramakrishnansr.com/assets/censorship_devices.pdf
* Both authors contributed equally to this research
- **Censored Planet: An Internet-wide, Longitudinal Censorship Observatory**
R. Sundara Raman, P. Shenoy, K. Kohls, and R. Ensafi
ACM Conference on Computer and Communications Security (CCS), November 2020
🔗 <https://ramakrishnansr.com/assets/censoredplanet.pdf>

Activities

- **PC Member** at *FOCI'21*
Served as a technical program committee member for ACM SIGCOMM 2021 Workshop on Free and Open Communications on the Internet (FOCI 21).
- **Outreach Chair** at *CSEG* 📅 June 2020 – May 2022
Arranged and managed outreach events that aimed at spreading knowledge about computer science in various schools, colleges and groups.