

Alexander Gamero-Garrido

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Research Interests: Computer Networks, Policy, Privacy,
Internet Measurement

University of California Davis
Computer Science
Davis, CA 95616

Education

- 2021 **Ph.D. in Computer Science**
University of California San Diego
Transit Influence of Autonomous Systems: Country-Specific Exposure of Internet Traffic,
Alex C. Snoeren and Alberto Dainotti, advisors
- 2015 **M.Sc. in Technology and Policy**
Massachusetts Institute of Technology
Thesis at the Computer Science and Artificial Intelligence Laboratory
- 2011 **B.Eng. in Electronics Engineering**, awarded *cum laude & exceptional thesis*
University Simón Bolívar, Venezuela
Exchange studies & thesis at Lund University, Sweden

Professional Experience

- 2023 – Pres. **Assistant Professor of Computer Science**
University of California Davis
- 2021 – 2023 **Ford Foundation & Future Faculty Fellow (Postdoctoral Researcher)**
Northeastern University, David Choffnes, mentor
- 2018 – 2019 **Research Intern, Security Software Engineering**
Akamai Technologies
Cambridge, Massachusetts, and San Francisco, California
- 2014 **Cybersecurity Intern**
United Nations, International Telecommunication Union
Geneva, Switzerland

Awards & Honors

- 2025 **Pulse Research Fellowship Mentor**
Internet Society

- 2024 **Caspar Bowden Award for Outstanding Research in Privacy Enhancing Technologies, Runner-Up**
Privacy Enhancing Technologies Symposium
Awarded for “Tracking, Profiling, and Ad Targeting in the Alexa Echo Smart Speaker Ecosystem”
- 2023 **CAMPOS Faculty Scholar**
California State Assembly & University of California, Davis
- IMC Best Paper Award**
ACM SIGCOMM Internet Measurement Conference
Awarded for “Tracking, Profiling, and Ad Targeting in the Alexa Echo Smart Speaker Ecosystem”
- 2022 **Ford Foundation Postdoctoral Fellowship**
National Academies of Sciences, Engineering and Medicine
- PAM Best Dataset Paper Award**
Passive and Active Measurement Conference
Awarded for “Quantifying Nations’ Exposure to Traffic Observation and Selective Tampering”
- 2021 **Future Faculty Fellowship**
Northeastern University
- 2019 **Microsoft Research Dissertation Grant**
Microsoft Research
- 2018 **SIGCOMM Best Paper Award**
ACM Special Interest Group on Data Communications
Awarded for “Inferring Persistent Interdomain Congestion”

Publications

**Directly supervised student*

Refereed Papers

- 2025 **Where in the World Are My Trackers? Mapping Web Tracking Flow Across Diverse Geographic Regions**
*Sachin Kumar Singh**, Robert Ricci, Alexander Gamero-Garrido
ACM SIGCOMM Internet Measurement Conference (IMC), Madison, WI. (IMC '25)
- Empirically Measuring Data Localization in the EU**
Alexander Gamero-Garrido, *Kicho Yu**, *Sumukh Vasisht Shankar**, *Sachin Kumar Singh**, *Sindhya Balasubramanian**, *Alexander Wilcox**, David Choffnes
25th Privacy Enhancing Technologies Symposium, Washington, DC. (PETS '25)

- 2023 **Network Topology Facilitates Internet Traffic Control in Autocracies**
Eda Keremoğlu, Nils B. Weidmann, [Alexander Gamero-Garrido](#)†, Esteban Carisimo, Alberto Dainotti, and Alex C. Snoeren
†Lead computer scientist, interdisciplinary team
Proceedings of the National Academy of Sciences Nexus. (PNAS Nexus '23)
- Tracking, Profiling, and Ad Targeting in the Alexa Echo Smart Speaker Ecosystem**
Umar Iqbal, Pouneh Nikkhah Bahrami, Rahmadi Trimananda, Hao Cui, [Alexander Gamero-Garrido](#), Daniel J. Dubois, David Choffnes, Athina Markopoulou, Franziska Roesner, Zubair Shafiq
ACM SIGCOMM Internet Measurement Conference. (IMC '23)
| **IMC Best Paper Award** |
| **Runner up for Caspar Bowden PETS Award** |
- 2022 **Quantifying Nations' Exposure to Traffic Observation and Selective Tampering**
[Alexander Gamero-Garrido](#), Esteban Carisimo, Shuai Hao, Bradley Huffaker, Alex C. Snoeren, Alberto Dainotti
Passive and Active Measurement Conference. (PAM '22)
| **PAM Best Dataset Paper Award** |
- 2021 **Identifying ASes of State-Owned Internet Operators**
Esteban Carisimo, [Alexander Gamero-Garrido](#), Alex C. Snoeren, Alberto Dainotti
ACM SIGCOMM Internet Measurement Conference. (IMC '21)
- 2018 **Inferring Persistent Interdomain Congestion**
Amogh Dhamdhare, David D. Clark, [Alexander Gamero-Garrido](#), Matthew Luckie, Ricky K. P. Mok, Gautam Akiwate, *Kabir Gogia**, Vaibhav Bajpai, Alex C. Snoeren, kc claffy
ACM Special Interest Group on Data Communications. (SIGCOMM '18)
| **SIGCOMM Best Paper Award** |
- 2017 **Quantifying the Pressure of Legal Risks on Third-party Vulnerability Research**
[Alexander Gamero-Garrido](#), Stefan Savage, Kirill Levchenko, and Alex C. Snoeren
ACM SIGSAC Conference on Computer and Communications Security. (CCS '17)
- 2015 **Characterizing Performance of Residential Internet Connections Using an Analysis of Measuring Broadband America's Web Browsing Test Data**
[Alexander Gamero-Garrido](#)
Telecommunications Policy Research Conference. (TPRC '15)

Pre-Prints

- IMC 26-a **Not All Roads Lead to Rome: How VPN Selection Alters What We Measure and Infer about Web Infrastructure**
*Sachin Kumar Singh**, Robert Ricci, [Alexander Gamero-Garrido](#)
ACM SIGCOMM Internet Measurement Conference (IMC) 2026 [arXiv:2605.30692](#)
- IMC 26-b **Where's Waldo Library? Using Reverse IP Geolocation to Identify Library IPs**
*Nishant Acharya**, Anyu Yang, *Humaira Fasih Ahmed Hashmi**, Kevin Vermeulen, *Shivani Kalamadi**, Jiayi Liu, *Ashutosh Kshirsagar**, Elizabeth Belding, David Choffnes, [Alexander Gamero-Garrido](#)
ACM SIGCOMM Internet Measurement Conference (IMC) 2026 [arXiv:2605.30791](#)

- CCR 26-a **Stratifying the Digital Divide: Analysis of Socio-Economic Influences on Internet Performance**
Shivani Kalamadi*, Aditya Bej*, Sachin Kumar Singh*, Varshika Srinivasavaradhan, Elizabeth Belding, [Alexander Gamero-Garrido](#)
ACM SIGCOMM Computer Communication Review (CCR) 2026 [arXiv:2605.30809](#)
- PETS 27 **Everyone Tells a Different Story: How VPN Choice Shapes Web Privacy Measurement**
Sachin Kumar Singh*, Robert Ricci, [Alexander Gamero-Garrido](#)
Privacy Enhancing Technologies Symposium (PETS) 2027
- CCS 26 **SST-Guard: Detecting and Characterizing Server-Side Google Analytics in the Wild**
Muhammad Jazlan*, [Alexander Gamero-Garrido](#), Zubair Shafiq, Yash Vekaria
ACM SIGSAC Conference on Computer and Communications Security (CCS) [arXiv:2604.27497](#)
- IMC 26-c **Learning to Map Traceroutes to Submarine Cables with SAILOR**
Riya Ponraj*, [Alexander Gamero-Garrido](#), Amreesh Phokeer, Yu Wang, Ram Durairajan
ACM SIGCOMM Internet Measurement Conference (IMC) 2026
- IMC 26-d **One Record Away: Measuring HTTP/3 Adoption, Discovery, and the Cost of the Slow Path**
Sachin Kumar Singh*, [Alexander Gamero-Garrido](#), Robert Ricci
ACM SIGCOMM Internet Measurement Conference (IMC) 2026
- CCR 26-b **A Multi-Dimensional Analysis of Broadband Performance at Community Anchor Institutions**
Jiayi Liu, David Choffnes, [Alexander Gamero-Garrido](#), Michael Wasser, Elizabeth Belding
ACM SIGCOMM Computer Communication Review (CCR) 2026

Posters

- 2025 **Do Library Internet Connections Deliver? A Study of Website Performance in Public Libraries**
Humaira Fasih Ahmed Hashmi*, Akhil Guntur*, Ashutosh Kshirsagar*, Elizabeth Belding, David Choffnes, [Alexander Gamero-Garrido](#)
ACM Internet Measurement Conference — Ph.D. Student Workshop
- 2025 **Quantifying the Impact of IXP Peering Disruptions**
Nishant Acharya*, Vasileios Giotsas, Amreesh Phokeer, [Alexander Gamero-Garrido](#)
ACM Internet Measurement Conference — Ph.D. Student Workshop
- 2025 **Fingerprinting & Obfuscation in QUIC using Fragmented Frames**
Karthik Nishanth Sengottuvelavan*, [Alexander Gamero-Garrido](#), Nguyen Phong Hoang
USENIX Security Poster
- 2025 **A Socio-Economic Analysis of Internet Access**
Shivani Kalamadi*, [Alexander Gamero-Garrido](#), Aditya Bej*
ACM Internet Measurement Conference — Ph.D. Student Workshop
- 2025 **Chunk-fu: Fingerprinting QUIC Implementations using Fragmented Frames**
Karthik Nishanth Sengottuvelavan*, [Alexander Gamero-Garrido](#), Nguyen Phong Hoang
ACM Internet Measurement Conference — Ph.D. Student Workshop
- 2022 **Using Reverse IP Geolocation to Identify Institutional Networks**
[Alexander Gamero-Garrido](#), Elizabeth Belding, David Choffnes
ACM Internet Measurement Conference

- 2022 **Assessing the GDPR's Effectiveness in Preventing Privacy Infringements from Cross-Border Data Transfers**
Alexander Gamero-Garrido, *Kicho Yu**, *Sumukh Vasisht Shankar**, *Sindhya Balasubramanian**,
*Alexander Wilcox**, and David Choffnes
ProperData Symposium, UC Irvine
- 2016 **Supporting Peer Instruction with Evidence-Based Online Instructional Templates**
 Tricia J. Ngoon, Alexander Gamero-Garrido, Scott Klemmer
ACM Conference on Learning at Scale

Grants & Fellowships

Grants

- 2024 – 2027 **Collaborative Research: NeTS: Medium: Measurement, Modeling and Analysis to Assess Network Connectivity and Performance at Anchor Institutions**
 Sole Principal Investigator, University of California, Davis
 National Science Foundation
 \$1,080,000 total award (\$360,000 to University of California, Davis)
- 2026 **Undergraduate Research Supplement: Anchor Institutions Network Measurement**
 Sole Principal Investigator
 Computing Research Association
 \$10,000
- 2023 **Internet Measurements to Empirically Characterize U.S. Broadband**
 Co-Principal Investigator, Northeastern University
 Comcast Innovation Fund
 \$85,000
- Pending **When Does Speed Matter? Mapping Speed Tests to Meaningful Connectivity Across Application Contexts**
 Lead Principal Investigator, University of California, Davis
 Internet Society Foundation
 \$500,000 total award (\$355,000 to University of California, Davis)

Fellowships & Research Awards

- 2025 **Internet Society Pulse Research Fellowship, Mentor Track**
 Internet Society
 \$10,000
- 2022 – 2023 **Ford Foundation Postdoctoral Fellowship**
 National Academies of Sciences, Engineering and Medicine
 \$50,000
- 2021 – 2022 **Future Faculty Fellowship**
 Northeastern University
 \$100,000

2019 **Microsoft Research Dissertation Grant**
Microsoft Research
\$25,000

Lab Fellowships & Awards

**Serve as main advisor*

2025 **Internet Society Pulse Research Fellowship, Student Track**
Awarded to *Nishant Acharya**
\$17,000

2025 **Internet Society Pulse Research Fellowship, Student Track (IPv6)**
Awarded to Sachin Kumar Singh
\$17,000

Invited Talks & Panels

2025 **Pulse Research Week—Barcelona**
Internet Society
Panel

2023 – 2024 **Interactions Between the Internet & Public Policy: Impacts on Security, Privacy & Resilience**
University of California Davis
Brown University
University of Utah
Columbia University
Georgia Institute of Technology

2023 **Horizons by Hopkins**
Johns Hopkins University
Panel

2023 **The Internet in the Global South: Security, Resilience & Policy**
Cybersecurity Summer Institute, Georgia Institute of Technology

2023 **Effectiveness of the GDPR in Preventing Privacy Infringements from Cross-Border Data Transfers**
Tufts University

2022 **Assessing the State of the Digital Divide with Internet Measurements**
National Academies of Sciences, Engineering and Medicine

2022 **Identifying ASes of State-Owned Internet Operators**
Georgia Institute of Technology

- 2020 – 2022 **Country-Level Transit Influence of Autonomous Systems**
University of California Santa Barbara
University of Southern California
New York University
Columbia University
Microsoft Research
Georgia Institute of Technology
Northeastern University
- 2020 **Autonomous Systems as Topological Ports of Entry in Latin America (Spanish)**
Latin American and Caribbean Network Operators' Group (LACNOG)

Teaching

- 2023 – Pres. **Instructor of Record**
University of California, Davis
- Undergraduate:* Computer Networks (150–175 students, 2 terms)
Graduate: Computer Networks (25–37 students, 2 terms)
Graduate: Internet Measurement & Policy (5–10 students, 2 terms)

Selected Media Coverage

Interviews

- 2026 **There Aren't a Lot of Reasons to Get Excited About a New Amazon Smartphone**
Wired
- 2025 **The Metrics Behind the Magic**
Internet Changemakers Podcast (Internet Society)

Paper Coverage

- 2024 **Network Topology Facilitates Internet Traffic Control in Autocracies**
Jerusalem Post, Pulse (Internet Society)
- 2023 **Quantifying Nations' Exposure to Traffic Observation and Selective Tampering**
Financial Times, EurekAlert! (AAAS), *peoples dispatch* (India)
- 2022 **Your Echoes are Heard: Tracking, Profiling, and Ad Targeting in the Amazon Smart Speaker Ecosystem**
Chicago Tribune, The Verge, The Register (UK), *la Repubblica* (Italy)
- 2018 **Inferring Persistent Interdomain Congestion**
The Register (UK)

External Service

Proposal & Fellowship Review

- 2023, 2026 NSF Proposal Review Panel
2026 ISOC Pulse Research Fellowship Reviewer

Organizing Committee

- 2024 **Student Travel Grant Co-Chair**
PI for NSF Travel Award, \$19,000
ACM Internet Measurement Conference (IMC)

Program Committee

- 2022 – 2026 ACM Internet Measurement Conference (IMC)
2024 – 2026 Privacy Enhancing Technologies Symposium (PETS)
2024, 2026 Network Traffic Measurement and Analysis Conference (TMA)
2022, 24–25 Passive and Active Measurement Conference (PAM)
2024 Applied Networking Research Workshop (ANWR)

External Reviewer

- 2019, 2022 ACM SIGCOMM Computer Communication Review (CCR)
2019 Performance Evaluation (PEVA)

Research Mentorship

**Serve as Main Advisor*

Incoming Postdoctoral Researcher (Expected late June 2026)

University of California, Davis

- 2026 – Pres. *Sachin Kumar Singh**

Ph.D. Students

University of California, Davis

- 2024 – Pres. *Nishant Acharya**
*Shivani Kalamadi**
*Humaira Fasih Ahmed Hashmi**
Muhammad Jazlan

University of Utah

2023 – 2026 Sachin Kumar Singh

M.Sc. Thesis**University of California, Davis**2025 – 2026 Vijeth Kumbarahally Lakshminarayana
Hengyi Li**University of British Columbia**2025 Karthik Nishanth — *ISOC Research Fellowship, Mentor***Project Supervision****University of California, Santa Barbara Ph.D.**

2026 – Pres. Jiayi Liu

University of Oregon Ph.D.2025 – 2026 Riya Ponraj — *ISOC Research Fellowship, Mentor***Northeastern University M.Sc.**2022 – 2023 Kicho Yu
Sumukh Vasisht Shankar
Sindhya Balasubramanian
Alexander Wilcox**University of California, Davis B.Sc.**2025 – Pres. *Akhil Guntur**

2026 – Pres. Kevin Thanh Bui

Northeastern University B.Sc.

2021 – 2022 Britney (Ise) Okhiria

University of California, San Diego B.Sc.2018 – 2019 *Nikhil Pothuru**2017 – 2018 *Kabir Gogia**

2016 Kean Freeman

Leadership

2023 **Invited Participant at NSF Workshop** on Bridging the Divide, University of California, Berkeley2023 **Panelist at Reach(OUT) LGBTQA+ Career Conference**, Northeastern University

- 2022 – 2023 **Cultural and Spiritual Life Staff Affiliate**, LGBTQA Resource Center, Northeastern University
- 2022 **Pride in STEM Interview**, IEEE Computer Society
- 2021 **Internet Measurement Conference “Pod” Organizer, Boston**, Northeastern University
- 2011 **Young Iberoamerican Leader**, Carolina Foundation, Spain
- 2011 **Student Commencement Speaker**, University Simón Bolívar, Venezuela