

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

- Accepted **A Multi-Dimensional Analysis of Broadband Performance at Community Anchor Institutions**
Jiayi Liu, David Choffnes, Alexander Gamero-Garrido, Michael Wasser, Elizabeth Belding
To appear in *ACM SIGCOMM Computer Communication Review (CCR)*
- 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)
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- PhD Awarded, Promotion Review Period Begins
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- 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](https://arxiv.org/abs/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](https://arxiv.org/abs/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
- HotNets 26 **Towards Facility-Level Impact Quantification for IXPs**
 Nishant Acharya*, Pedro Marcos, Vasileios Giotsas, Amreesh Phokeer, Alexander Gamero-Garrido
ACM Workshop on Hot Topics in Networks (HotNets) 2026
- 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

Posters

- Accepted **SST-Guard: Detecting and Characterizing Server-side Google Analytics in the Wild**
 Muhammad Jazlan*, Alexander Gamero-Garrido, Zubair Shafiq, Yash Vekaria
Privacy Enhancing Technologies Symposium (PETS) 2026 — Poster Session
- 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 **CAREER: Improving Inference Reliability and Coverage in Internet Measurement**
Sole Principal Investigator, University of California, Davis
National Science Foundation
\$694,000 total award (all to University of California, Davis)
- 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 (ANRW)

External Reviewer

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

Research Mentorship

**Serve as Main Advisor*

Postdoctoral Researchers

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, Berkeley
- 2023 **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