

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 (CAIDA), 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**
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
- 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 (PETS ’25), Washington, DC
- 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
Proceedings of the National Academy of Sciences Nexus (PNAS Nexus)

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)

| **Best Paper 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)

| **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)

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)

| **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)

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)

Pre-Prints

Accepted

Empirically Measuring Data Localization in the EU

[Alexander Gamero-Garrido](#), Kicho Yu*, Sumukh Vasisht Shankar*, Sachinkumar Singh*, Sindhya Balasubramanian*, Alexander Wilcox*, and David Choffnes

Privacy Enhancing Technologies Symposium (PETS)

Submitted

The World Beyond Europe: Crowdsourced Insights into Tracker Data Flow Practices in 23 Countries

Sachinkumar Singh*, Rob Ricci, [Alexander Gamero-Garrido](#)

IEEE Symposium on Security and Privacy 2025

Submitted

Quantifying IXP Indispensability

Nishant Acharya*, Vijeth Kumbarahally, [Alexander Gamero-Garrido](#)

ACM SIGCOMM Internet Measurement Conference (IMC)

Posters

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

- 2024 – 2027 **Measurement, Modeling and Analysis to Assess Network Connectivity and Performance at Anchor Institutions**
David Choffnes (PI), Alexander Gamero-Garrido (PI), Elizabeth Belding (PI)
National Science Foundation, Networking Technology and Systems (NeTS), \$1,080,000
- 2023 **Internet Measurements to Empirically Characterize U.S. Broadband**
David Choffnes (Co-PI), Alexander Gamero-Garrido (Co-PI)
Comcast Innovation Fund, \$85,000

Invited Talks

- 2023 **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 **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)

Selected Media Coverage

- 2023 **Quantifying Nations' Exposure to Traffic Observation and Selective Tampering**
Financial Times, EurekAlert! (AAAS), UC San Diego News, TrustMyScience (France), 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 Reppublica (Italy), Axios Seattle, msn.com
- 2018 **Inferring Persistent Interdomain Congestion**
The Register (UK)

Teaching

- 2023 – Pres. **Instructor of Record**
Undergraduate: Computer Networks
Graduate: Computer Networks, Internet Measurement & Policy
University of California, Davis
- 2019 – 2021 **Instructional Assistant**
Undergraduate: Computer Networks (two terms), Networked Systems
Graduate: Computer Networks, Interaction Design Research
University of California, San Diego
- 2007 **Teaching Assistant**
Undergraduate: Electric Circuits (two terms)
University Simón Bolívar, Venezuela

Service

Proposal Review

2023 NSF Proposal Review Panel

Program Committees

2022 – 2025 ACM Internet Measurement Conference (IMC)

2024 – 2025 Privacy Enhancing Technologies Symposium (PETS)

2022, 2024 Passive and Active Measurement Conference (PAM)

2024 Applied Networking Research Workshop (ANWR)

2024 Network Traffic Measurement and Analysis Conference (TMA)

External Reviewer

2019, 2022 ACM SIGCOMM Computer Communication Review (CCR)

2019 Performance Evaluation (PEVA)

Student Research Advising

**Serve as Main Ph.D. Advisor*

University of California, Davis Ph.D.

2024 – Pres. Nishant Acharya*

Shivani Kalamadi*

Humaira Fasih Ahmed Hashmi*

Muhammad Jazlan

University of Utah Ph.D.

2022 – Pres. Sachinkumar Singh

Northeastern University Ph.D.

2023 – Pres. Ashutosh Kshirsagar

Northeastern University M.Sc.

2022 – 2023 Kicho Yu → University of Southern California Ph.D.

Sumukh Vasisht Shankar → Walmart (Intern) → Yale University (Research Data Scientist)

Sindhya Balasubramanian → Tesla (Intern) → Tesla (Data Analyst)

Alexander Wilcox

Northeastern University B.Sc.

2021 – 2022 Britney (Ise) Okhiria

University of California, San Diego B.Sc.

2018 – 2019 Nikhil Pothuru → Georgia Institute of Technology M.Sc.

2017 – 2018 Kabir Gogia → Facebook

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 Spritual 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
- 2017 – 2018 **Publicity Manager**, Graduate Women in Computing, University of California, San Diego
- 2017 **UC San Diego M.Sc. & Ph.D. Recruiter**, Grace Hopper Celebration of Women in Computing
- 2014 – 2015 **Co-President**, Technology Policy Student Society, Massachusetts Institute of Technology
- 2011 **Young Iberoamerican Leader**, Carolina Foundation, Spain
- 2011 **Student Commencement Speaker**, University Simón Bolívar, Venezuela

Languages

English, Bilingual Proficiency

Spanish, Bilingual Proficiency

Italian, Advanced Proficiency