

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

- 2022 **Ford Foundation Postdoctoral Fellowship**
National Academies of Sciences, Engineering and Medicine
- PAM Best Dataset 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

Conference Papers

- 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 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 Dhamdhere, 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

- Submitted **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)

Submitted **Your Echos are Heard: Tracking, Profiling, and Ad Targeting in the Amazon Smart Speaker Ecosystem**
Umar Iqbal, Pouneh Nikkhah Bahrami, Hao Cui, Rahmadi Trimananda, [Alexander Gamero-Garrido](#), Daniel Dubois, David Choffnes, Athina Markopoulou, Franziska Roesner, and Zubair Shafiq
ACM SIGCOMM Internet Measurement Conference (IMC)

2023 **Empirically Measuring Data Localization in the EU**
[Alexander Gamero-Garrido](#), Kicho Yu, Sumukh Vasisht Shankar, Sindhya Balasubramanian, Alexander Wilcox, and David Choffnes
Privacy Enhancing Technologies Symposium (PETS), planned submission in Aug. 2023

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

2023 **Internet Measurements to Empirically Characterize U.S. Broadband**
David Choffnes (PI), [Alexander Gamero-Garrido](#) (Co-PI)
Comcast Innovation Fund, \$85,000

Submitted **Measurement, Modeling and Analysis to Assess Network Connectivity and Performance at Anchor Institutions**
David Choffnes (PI), [Alexander Gamero-Garrido](#) (Co-PI), Elizabeth Belding (Co-PI)
National Science Foundation, Networking Technology and Systems (NeTS), \$1,200,000

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

- 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 – 2023 ACM Internet Measurement Conference (IMC)

2022 Passive and Active Measurement Conference (PAM)

External Reviewer

2019, 2022 ACM SIGCOMM Computer Communication Review (CCR)

2019 Performance Evaluation (PEVA)

Student Research Advising

Northeastern University M.Sc.

2022 – Pres. 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