

Alexander Gamero-Garrido

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

Northeastern University
Khoury College of
Computer Sciences
Boston, MA 02120

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

Postdoctoral Fellowships

- 2021 – Pres. **Ford Foundation & Future Faculty Fellow**
Northeastern University, David Choffnes, mentor

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”

Professional Experience

- 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

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
Science
- 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 Mar. 2023

- 2023 **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 SIGSAC Conference on Computer and Communications Security (CCS), planned resubmission in Mar. 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

- 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
- Submitted **Internet Measurements to Empirically Characterize U.S. Broadband**
David Choffnes (PI), [Alexander Gamero-Garrido](#) (Co-PI)
Comcast Innovation Fund, \$150,000

Invited Talks

- 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

- 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
- Quantifying Nations' Exposure to Traffic Observation and Selective Tampering**
EurekAlert! (AAAS), UC San Diego News, TrustMyScience (France), peoples dispatch (India)
- 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

NSF Proposal Review Panels

- 2023 Internet Measurement Research Track-1

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)
Sindhya Balasubramanian → Tesla (Intern)
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

- 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