

# Alexander Gamero-Garrido

Last updated: March, 2024

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

University of California Davis  
Computer Science  
Davis, CA 95616

## Education

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- 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

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- 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

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- 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

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### Refereed Papers

- 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 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

- 2024 **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 May 2024

## 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

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- 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

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- 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

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- 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 Repubblica (Italy), Axios Seattle, msn.com*
- 2018 **Inferring Persistent Interdomain Congestion**  
*The Register (UK)*

## Teaching

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- 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

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### 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

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**English**, Bilingual Proficiency

**Spanish**, Bilingual Proficiency

**Italian**, Advanced Proficiency