

# 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

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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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2025 **Pulse Research Fellowship Mentor**  
Internet Society

2024	<b>Caspar Bowden Award for Outstanding Research in Privacy Enhancing Technologies, Runner-Up</b> Privacy Enhancing Technologies Symposium Awarded for “Tracking, Profiling, and Ad Targeting in the Alexa Echo Smart Speaker Ecosystem”
2023	<b>CAMPOS Faculty Scholar</b> California State Assembly & University of California, Davis
	<b>IMC Best Paper Award</b> ACM SIGCOMM Internet Measurement Conference Awarded for “Tracking, Profiling, and Ad Targeting in the Alexa Echo Smart Speaker Ecosystem”
2022	<b>Ford Foundation Postdoctoral Fellowship</b> National Academies of Sciences, Engineering and Medicine
	<b>PAM Best Dataset Paper Award</b> Passive and Active Measurement Conference Awarded for “Quantifying Nations’ Exposure to Traffic Observation and Selective Tampering”
2021	<b>Future Faculty Fellowship</b> Northeastern University
2019	<b>Microsoft Research Dissertation Grant</b> Microsoft Research
2018	<b>SIGCOMM Best Paper Award</b> ACM Special Interest Group on Data Communications Awarded for “Inferring Persistent Interdomain Congestion”

## Publications

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\*Directly supervised student

### Refereed Papers

2025	<b>Where in the World Are My Trackers? Mapping Web Tracking Flow Across Diverse Geographic Regions</b> <i>Sachin Kumar Singh, Robert Ricci, <u>Alexander Gamero-Garrido</u></i> <i>ACM SIGCOMM Internet Measurement Conference (IMC), Madison, WI</i>
	<b>Empirically Measuring Data Localization in the EU</b> <i><u>Alexander Gamero-Garrido</u>, Kicho Yu, Sumukh Vasisht Shankar, Sachin Kumar Singh, Sindhya Balasubramanian, Alexander Wilcox, David Choffnes</i> <i>25th Privacy Enhancing Technologies Symposium (PETS '25), Washington, DC</i>
2023	<b>Network Topology Facilitates Internet Traffic Control in Autocracies</b> <i>Eda Keremoğlu, Nils B. Weidmann, <u>Alexander Gamero-Garrido</u>, Esteban Carisimo, Alberto Dainotti, and Alex C. Snoeren</i> <i>Proceedings of the National Academy of Sciences Nexus (PNAS Nexus)</i>

**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**

Accepted

**Empirically Measuring Data Localization in the EU**

Alexander Gamero-Garrido, Kicho Yu\*, Sumukh Vasishth 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

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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

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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)

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## 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)*

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## Teaching

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**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

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## Service

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### 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 Vasishth 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) Okhuria

### **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