

# Esteban Carisimo

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## Education

### Universidad de Buenos Aires

Doctor of Engineering

[Buenos Aires, Argentina](#)

Apr 2015 - Apr 2020

- Advisor: J.I. Alvarez-Hamelin (UBA); Co-Advisor: Amogh Dhamdhere (UC San Diego)
- Dissertation: *Internet tomography: Traffic measurement and its relationship with topology*
- Summa Cumme Laude

### Universidad de Buenos Aires

Engineering Degree in Electronics

[Buenos Aires, Argentina](#)

Mar 2009 - Dec 2014

- GPA: 3.60 (8.15/10)
- Diploma de Honor (*Honor for outstanding GPA*)
- Dissertation: *Network tomography: Measurements on an Internet Exchange Point*

## Appointments

### Department of Computer Science, Northwestern University

Postdoctoral Fellow

[Evanston, IL, USA](#)

Apr 2021 - Present

- Mentor: Fabian E. Bustamante

### Department of Computer Science, School of Engineering, Universidad de Buenos Aires

Adjunct Professor

[Buenos Aires, Argentina](#)

Aug 2019 - Apr 2021

- Tenured Teaching Appointment
- Instructor of 75.43 - Introduction to Distributed Systems

### Department of Computer Science, School of Engineering, Universidad de Buenos Aires

Head of Teaching Assistants

[Buenos Aires, Argentina](#)

Mar 2017 - Jul 2019

- 75.43 - Introduction to Distributed Systems

### CONICET

Doctoral Fellow

[Buenos Aires, Argentina](#)

Apr 2015 - Apr 2020

- Mentor: J.I. Alvarez-Hamelin

### CAIDA, San Diego Supercomputer Center, UC San Diego

Visiting Graduate Student

[La Jolla, CA, USA](#)

Oct 2017 - Apr 2018

- Researched automatic detection of persistent congestion in the Internet.
- Mentor: Amogh Dhamdhere

## Awards

2022 **Best Dataset Award**, *Quantifying Nations' Exposure to Traffic Observation and Selective Tampering*. Passive and Active Measurement (PAM) Conference

[Virtual Event](#)

## Publications

### JOURNAL ARTICLES

- [J3] Network topology facilitates internet traffic control in autocracies.  
Eda Keremoğlu, Nils B Weidmann, Alexander Gamero-Garrido, **Esteban Carisimo**, Alberto Dainotti, Alex C Snoeren  
*PNAS Nexus*, pgae069, 2024
- [J2] A First Look at the Latin American IXPs.  
**Esteban Carisimo**, Julián M. Del Fiore, Diego Dujovne, Cristel Pelsser, J. Ignacio Alvarez-Hamelin  
*SIGCOMM Comput. Commun. Rev.* pp. 18–24, 2020
- [J1] Studying the evolution of content providers in IPv4 and IPv6 internet cores.  
**Esteban Carisimo**, Carlos Selmo, J. Ignacio Alvarez-Hamelin, Amogh Dhamdhere  
*Computer Communications*, pp. 54–65, 2019

### CONFERENCE PROCEEDINGS

- [C9] Ten years of the Venezuelan crisis - An Internet perspective  
**Esteban Carisimo**, Rashna Kumar, Caleb J. Wang, Santiago Klein, Fabián E. Bustamante  
*ACM SIGCOMM*, 2024

- [C8] A hop away from everywhere: A view of the intercontinental long-haul infrastructure.  
**Esteban Carisimo**, Caleb J. Wang, Mia Weaver, Paul Barford, Fabián E. Bustamante  
*Proc. ACM Meas. Anal. Comput. Syst.* 2024
- [C7] as2org+: Enriching AS-to-Organization Mappings with PeeringDB.  
Augusto Arturi, **Esteban Carisimo**, Fabián E. Bustamante  
*Passive and Active Measurement*, 2023, Cham
- [C6] Destination Unreachable: Characterizing Internet Outages and Shutdowns.  
Zachary Bischof, Kennedy Pitcher, **Esteban Carisimo**, Amanda Meng, Rafaek Nunes, Ramakrishna Padmanabhan, Margaret E. Roberts, Alex C. Snoeren, Alberto Dainotti  
*ACM SIGCOMM*, 2023
- [C5] Jitterbug: A new framework for jitter-based congestion inference.  
**Esteban Carisimo**, Ricky K. P. Mok, David D. Clark, Kc Claffy  
*Passive and Active Measurement*, 2022, Cham
- [C4] 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*, 2022, Cham
- [C3] Identifying ASes of State-Owned Internet Operators.  
**Esteban Carisimo**, Alexander Gamero-Garrido, Alex C. Snoeren, Alberto Dainotti  
*ACM Internet Measurement Conference (IMC)*, 2021, New York, NY, USA
- [C2] Studying the Evolution of Content Providers in the Internet Core.  
**Esteban Carisimo**, Carlos Selmo, J. Ignacio Alvarez-Hamelin, Amogh Dhamdhere  
*Network Traffic Measurement and Analysis Conference (TMA)*, 2018
- [C1] Hidden Internet Topologies Info: Truth or Myth?.  
Sofía Silva Berenguer, **Esteban Carisimo**, J. Ignacio Alvarez-Hamelin, Francisco Valera Pintor  
*Workshop on Fostering Latin-American Research in Data Communication Networks*, 2016, New York, NY, USA

## Software, Systems and Datasets

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### SYSTEMS

**Splash**    `splash.aqualab.cs.northwestern.edu`

### TOOLS

**Jitterbug**    Network Congestion Inference tool <https://www.github.com/estcarisimo/jitterbug>  
**as2org+**    AS-to-Organizations mapping tool <https://github.com/NU-AquaLab/as2orgplus>

### DATASET

**State-Owned ASes**    List of ASes of State-Owned Internet Providers <https://www.github.com/estcarisimo/state-owned-ases>

## Talks

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- [T8] El Dilema Digital de los Gobiernos: Entre Autonomia y Tercerizacion  
**Esteban Carisimo**  
2024, Universidad de San Andres, San Fernando, Buenos Aires, Argentina
- [T7] as2org+: Enriching AS-to-Organization Mappings with PeeringDB  
**Esteban Carisimo**  
2023, PAM, Virtual Event
- [T6] Unexpected Peering Connections to the Cloud: Going the distance when you don't have to  
**Esteban Carisimo**  
2023, AIMS-IYP UCSD, La Jolla, CA, USA
- [T5] Unexpected Peering Connections to the Cloud: Going the distance when you don't have to  
**Esteban Carisimo**  
2023, University of Wisconsin-Madison, Madison, WI, USA
- [T4] Jitterbug: A new framework for jitter-based congestion inference  
**Esteban Carisimo**  
2022, PAM, Virtual Event
- [T3] Identifying ASes of State-Owned Internet Operators  
**Esteban Carisimo**  
2021, IMC, Virtual Event
- [T2] Studying the Evolution of Content Providers in the Internet Core  
**Esteban Carisimo**  
2018, LACNOG, Rosario, Argentina
- [T1] Studying the Evolution of Content Providers in the Internet Core  
**Esteban Carisimo**  
2018, TMA, Vienna, Austria

## Press and Broader Impact

- 2024 **APNIC Blog**, (Invited) A hop away from everywhere long-haul links in today's Internet
- 2022 **APNIC Blog**, (Invited) Identifying Autonomous Systems of state-owned Internet operators

## Teaching

### CS340 - Introduction to Computer Networking

Northwestern University

Instructor

Jan 2022 - Present

- Quarters: Fall 2023, Fall 2022, Winter 2022
- Website: <https://northwestern-cs340.github.io/>

### 75.43 - Introduction to Distributed Systems

Universidad de Buenos Aires

Instructor

Jul 2019 - Apr 2021

- Semesters: S2-2020, S1-2020, S2-2019
- Equivalent to Northwestern's CS340 - Introduction to Computer Networking

### 75.43 - Introduction to Distributed Systems

Universidad de Buenos Aires

Head of Teaching Assistants

Mar 2017 - Jul 2019

- Semesters: S1-2019, S2-2018, S1-2018, S1-2017
- Equivalent to Northwestern's CS340 - Introduction to Computer Networking

## Service

### DEPARTMENT SERVICE

#### Latin CS

Northwestern University

Faculty Advisor

Jan 2023 - Jun 2023

- Student organization for self-identified as Latin American/ Latinx / Hispanic.
- Temporary invited to represent the faculty in mentoring the organization.

#### Admission Committee for the PhD in Computer Science

Northwestern University

Committee Member

Jan 2022 - Jan 2023

- Representing the System and Networking area.

#### Curriculum Committee of the CSE Undergraduate Program

Universidad de Buenos Aires

Faculty Representative

Jun 2019 - Apr 2021

- Co-governed board composed of faculty (3), graduate (2), and student (1) members

### CONFERENCE COMMITTEES AND JOURNAL REVIEWS

#### General Chair

- PAM 2024

#### Program Committee Member

- 2024: IMC, TMA
- 2023: IMC, PAM
- 2022: PAM, IMC (Only Poster Session)

#### External Reviewer

- ACM/IEEE Transaction on Networking (ToN)
- ACM SIGCOMM Computer Communications Review (CCR)

## Mentoring

### MASTER STUDENTS OR EQUIVALENT

1. **Santiago Klein**. Advisor. Universidad de Buenos Aires. Jan 2023 - Sep 2023
2. **Nicolas Aguerre**. Advisor. Universidad de Buenos Aires. Jan 2023 - Sep 2023
3. **Raghul Ravi**. Advisor. Northwestern University. Sep 2022 - Jun 2023
4. **Aman Khalid**. Advisor. Northwestern University. Jun 2022 - Dec 2022
5. **Cecilia Hortas**. Advisor. Universidad de Buenos Aires. Sep 2021 - Dec 2022
6. **Camila Bojman**. Advisor. Universidad de Buenos Aires. Sep 2021 - Dec 2022
7. **Manuel Ruiz Echazu**. Advisor. Universidad de Buenos Aires. Sep 2021 - Aug 2022
8. **Tomas Botalla**. Advisor. Universidad de Buenos Aires. Sep 2021 - Aug 2022
9. **Augusto Arturi**. Advisor. Universidad de Buenos Aires. Sep 2020 - Aug 2021

10. **Rodrigo Zapico**. Advisor. Universidad de Buenos Aires. *Sep 2020 - Jun 2021*
11. **Martín Errázquin**. Advisor. Universidad de Buenos Aires. *Sep 2020 - Jun 2021*
12. **Sofía Morseletto**. Advisor. Universidad de Buenos Aires (joint w University of Luxembourg). *Jan 2019 - Apr 2020*

## Languages

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**English** Proficient  
**Spanish** Native  
**Italian** Intermediate proficiency

**References available upon request.**