

RESEARCH OVERVIEW

My research brings a data-driven approach to understanding and improving the Internet’s performance and security. I build systems that collect data about network, operator, and attacker behaviors. I use quantitative analysis, including rigorous statistics, on the data my systems collect to surface operational challenges and threats.

POSITIONS

- Assistant Professor, Electrical and Computer Engineering, *University of California, Los Angeles* July 2024–Present
- Research Scientist, *Netflix* June 2023–May 2024, May 2025–Present
- Research Scientist, *Censys* June 2024–May 2025

EDUCATION

- Ph.D. in Computer Science, *Stanford University* 2018–2024
Dissertation: “A Comprehensive and Real-Time View of the Internet Service Ecosystem”
Advisor: Zakir Durumeric
- M.S. in Computer Science, *University of California, San Diego* 2017–2018
Thesis: “Building and Breaking Burst-Parallel Systems”
Advisors: Geoff Voelker and George Porter
- B.S. in Computer Science, *University of California, San Diego* 2014–2017
Minor: Mathematics

HONORS AND AWARDS

- Forbes 30 Under 30, Science 2025
- Invited Mentor for Pulse Research Fellows, Internet Society 2025
- EECS Rising Star, International Recognition 2023
- Community Impact Award, Stanford University 2023
- Student Services Award, Stanford University Computer Science Department 2023
- Community Contribution Paper Award, ACM Internet Measurement Conference 2022
- Graduate Research Fellowship, National Science Foundation (“NSF GRFP”) 2018
- Graduate Fellowship in Science and Engineering, Stanford University (“Stanford SGF”) 2018
- Department Award for Excellence in Teaching, UC San Diego 2018

† indicates mentee, * indicates co-first authorship

Conference Proceedings

- [1] H. Clark, J. Cody, Z. Durumeric, M. Ellison, L. **Izhikevich**, and A. Mirian, “Censys: A Map of Internet Hosts and Services”, in *Proceedings of the ACM SIGCOMM Conference*, 2025.
- [2] M. Tran, K. Huynh, D. Jain, D. Truong, S. Theeranantachai, B. Zhang, L. Zhang, and L. **Izhikevich**, “Towards Global Outage Detection for LEO Networks”, in *Proceedings of the ACM SIGCOMM LEO-Net Workshop*, 2025.
- [3] L. **Izhikevich**, R. Engardt, T. Huang, and R. Teixeira, “A Global Perspective on the Past, Present, and Future of Video Streaming over Starlink”, in *ACM SIGMETRICS/IFIP Performance*, 2025.
- [4] K. Izhikevich†, G. Voelker, S. Savage, and L. **Izhikevich**, “Using Honeybuckets to Characterize Serverless Storage Scanning in the Wild”, in *IEEE European Symposium on Security and Privacy*, 2024.
- [5] L. **Izhikevich**, M. Tran†, K. Izhikevich†, G. Akiwate, and Z. Durumeric, “Democratizing LEO Satellite Network Measurement”, in *ACM SIGMETRICS/IFIP Performance*, 2024.
- [6] L. **Izhikevich**, M. Tran†, M. Kallitsis, A. Fass, and Z. Durumeric, “Cloud Watching: Understanding Attacks Against Cloud-Hosted Services”, in *Proceedings of the 23rd ACM Internet Measurement Conference*, 2023.
- [7] L. **Izhikevich**, G. Akiwate, B. Berger†, S. Drakontaidis†, A. Ascherman†, P. Pearce, D. Adrian, and Z. Durumeric, “ZDNS: A Fast DNS Toolkit for Internet Measurement”, in *Proceedings of the 22nd ACM Internet Measurement Conference*, **★Community Contribution Award★**, 2022.
- [8] L. **Izhikevich**, R. Teixeira, and Z. Durumeric, “Predicting IPv4 Services Across All Ports”, in *Proceedings of the ACM SIGCOMM Conference*, 2022.
- [9] M. Ziv†, L. **Izhikevich**, K. Ruth, K. Izhikevich†, and Z. Durumeric, “ASdb: A System for Classifying Owners of Autonomous Systems”, in *Proceedings of the 21st ACM Internet Measurement Conference*, 2021.
- [10] J. Cable*†, D. Gregory*†, L. **Izhikevich***, and Z. Durumeric, “Stratosphere: Finding Vulnerable Cloud Storage Buckets”, in *Proceedings of the 24th International Symposium on Research in Attacks, Intrusions and Defenses*, 2021.
- [11] L. **Izhikevich**, R. Teixeira, and Z. Durumeric, “LZR: Identifying Unexpected Internet Services”, in *30th USENIX Security Symposium*, 2021.
- [12] G. Wan, L. **Izhikevich**, D. Adrian, K. Yoshioka, R. Holz, C. Rossow, and Z. Durumeric, “On the Origin of Scanning: The Impact of Location on Internet-Wide Scans”, in *ACM Internet Measurement Conference*, 2020.
- [13] L. Ao, L. **Izhikevich**, G. M. Voelker, and G. Porter, “Sprocket: A Serverless Video Processing Framework”, in *Proceedings of the Ninth ACM Symposium on Cloud Computing*, 2018.
- [14] L. **Izhikevich**, E. Peterson, and B. Voytek, “Neural oscillatory power is not Gaussian distributed across time”, in *Program No. 271.03. 2016 Neuroscience Meeting Planner*, 2016.

Workshop and Pre-Prints

- [16] O. Elamri, I.-N. Zanolari, J. Zhi, B. Du, and L. **Izhikevich**, “Expanding Access, Exposing Risk: A Study of Starlink Hosts”, in *ACM Workshop on Policy-Relevant Internet Measurements and Experimentation (PRIME)*, 2025.

- [17] L. **Izhikevich**, R. Gao, E. Peterson, and B. Voytek, “Measuring the average power of neural oscillations”, *bioRxiv*, 2018. eprint: <https://www.biorxiv.org/content/early/2018/10/13/441626.full.pdf>.

Books

- [15] N. Moshiri and L. **Izhikevich**, *Design and Analysis of Data Structures*. 2016, ISBN: 978-1981017232.

Thesis

- [18] L. **Izhikevich**, “Building and Breaking Burst-Parallel Systems”, M.S. thesis, University of California, San Diego, 2018.
- [19] L. **Izhikevich**, “A Comprehensive and Real-Time View of the Internet Service Ecosystem”, Ph.D. dissertation, Stanford University, 2024.

PROFESSIONAL SERVICE

Technical Program Committees

• USENIX Security	2025–Current
• Internet Measurement Conference	2023–Current
• SIGCOMM Next-Generation Network Observability Workshop	2025
• IEEE Security and Privacy	2023
• Symposium on Research in Attacks, Intrusions, and Defenses	2022–2023
• The Passive and Active Measurement Conference	2022
• IEEE Security and Privacy (External Reviewer)	2022
• USENIX Security (External Reviewer)	2019–2022
• Internet Measurement Conference (External Reviewer)	2019–2021

Department and University Service

• Founder and Organizer of the Cross-Department Security Seminar, UCLA	2024–Current
• Computer Engineering Faculty Search Committee – Chalk Talk Coordinator, UCLA	2025–Current
• Data Science Faculty Search Committee, Stanford University	2022–2023
• Ethics & Society Review of HAI Seed Grants Committee, Stanford University	2022
• Chair of Ph.D. Applicant Support Program, Stanford University	2021–2023
• Ph.D. Admissions Committee, Computer Science, Stanford University	2019–2022
• Mentor for Pulse Research Fellows, Internet Society	2025

External Service

• Grant Proposal Reviewer, Dutch Research Council	2025
• Mentor for Pulse Research Fellows, Internet Society	2025

TEACHING

• ECE239AS: Topics in Computer Networking Measurement and Security, UCLA <i>lizizhikevich.github.io/ECE239AS-NetSec/</i>	Spring 2025
• ECE132B: Data Communications and Telecommunication Networks, UCLA	Fall 2025

ADVISING AND MENTORING

Ph.D. Students

- Manda Tran (M.S., Ph.D.) 2024–Current
- Rahul Tripathi (M.S., Ph.D.) 2025–Current

Post-Docs

- Ben Du 2025–Current

B.S/M.S Students

(only those who published a peer-reviewed article with me)

- Khiet Hyunh (B.S), Dravya Jain (B.S), Dylan Truong (B.S) 2025–Current
- Omar Elamri (M.S), Isaac-Neil Zanoria (M.S), Jacob Zhi (M.S) 2025
- Briana Berger (B.S/M.S.), Spencer Drakontaidis (B.S.), Anna Ascherman (B.S) 2021–2022
- Jack Cable (B.S.), Drew Gregory (B.S.), Maya Ziv (M.S.) 2020–2021

Doctoral Committees

- Mine Dogan (Ph.D., Electrical and Computer Engineering, UCLA, May 2025)
- Howard Zhang (Ph.D., Electrical and Computer Engineering, UCLA, November 2025)
- Fatemeh Arkannezhad (Ph.D., Electrical and Computer Engineering, UCLA, TBD)
- Alexander Vilesov, (Ph.D., Electrical and Computer Engineering, UCLA, TBD)

Masters Committees

- Jacob Zhi (M.S, Computer Science, UCLA, June 2025)
- Fatemeh Arkannezhad (M.S, Electrical and Computer Engineering, UCLA, June 2025)

SPEAKING

- Global Visibility into the Internet’s Security and Performance
Invited at UCLA Engineering Alumni Board Meeting May’25; UCLA ECE Alumni Board Meeting Nov’25
- A Global Perspective on the Past, Present, and Future of Low Earth Orbit Satellite Networks
Invited at Aerospace Corporation May’25; Stanford University March’25; Northrop Grumman Nov’25
- How to Succeed at Early Career Research
Invited Panelist at the Internet Measurement Conference October’24; Invited Panelist on the Networking Channel March ’25
- A Global Perspective on the Past, Present, and Future of Video Streaming over Starlink
Invited at Netflix May’24; ACM SIGMETRICS June ’25;
- Democratizing LEO Satellite Network Measurement
Invited at Netflix June’23; ACM SIGMETRICS June’24
- How to give an interesting talk for a SIGCOMM/NSDI audience
Invited Panelist on the Networking Channel March ’23
- Cloud Watching: Understanding Attacks Against Cloud-Hosted Services
ACM Internet Measurement Conference October’22
- ZDNS: A Fast DNS Toolkit for Internet Measurement
ACM Internet Measurement Conference October’22
- Predicting IPv4 Services Across All Ports
ACM SIGCOMM August’22
- Finding Vulnerable Cloud Storage Buckets
Symposium on Research in Attacks, Intrusions, and Defenses October’21; Invited for UC San Diego Security Seminar ’22

- Identifying Unexpected Internet Services
USENIX Security '21; Invited for Cornell Tech Security Seminar '21; Invited for Stanford Security Symposium'22
- Sprocket: A Serverless Video Processing Framework
UC San Diego Systems Seminar '18

REFERENCES

Zakir Durumeric

Assistant Professor of Computer Science
Stanford University

Stefan Savage

Professor of Computer Science and Engineering
University of California, San Diego

Geoffrey Voelker

Professor of Computer Science and Engineering
University of California, San Diego

Renata Cruz Teixeira

Former Director of Research; Current Senior Research Scientist
Inria, Paris; Netflix