

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.

EDUCATION

Ph.D. in Computer Science , <i>Stanford University</i>	2018–2024
– Dissertation: “A Comprehensive and Real-Time View of the Internet Service Ecosystem”	
– Advisor: Zakir Durumeric	
M.S. in Computer Science , <i>Stanford University</i>	2023
M.S. in Computer Science , <i>University of California, San Diego</i>	2017–2018
– Thesis: “Building and Breaking Burst-Parallel Systems”	
– Advisors: Geoff Voelker and George Porter	
B.S. in Computer Science , <i>University of California, San Diego</i>	2014–2017
– Minor: Mathematics.	

POSITIONS

• Assistant Professor, Electrical and Computer Engineering, <i>University of California, Los Angeles</i>	July 2024–Present
• Senior Security Researcher, <i>Censys</i>	August 2024–Present
• Research Intern, <i>Censys</i>	June 2024–August 2024
• Graduate Research Fellow, <i>Netflix</i>	June 2023–May 2024

HONORS AND AWARDS

• Forbes 30 Under 30, Science	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

PUBLICATIONS

† indicates mentee, * indicates co-first authorship

Conference Proceedings

- [1] 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.
- [2] 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.
- [3] L. **Izhikevich**, M. Tran†, K. Izhikevich†, G. Akiwate, and Z. Durumeric, “Democratizing LEO Satellite Network Measurement”, in *ACM SIGMETRICS/IFIP Performance*, 2024.
- [4] 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.
- [5] 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.
- [6] L. **Izhikevich**, R. Teixeira, and Z. Durumeric, “Predicting IPv4 Services Across All Ports”, in *Proceedings of the ACM SIGCOMM Conference*, 2022.
- [7] 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.
- [8] 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.
- [9] L. **Izhikevich**, R. Teixeira, and Z. Durumeric, “LZR: Identifying Unexpected Internet Services”, in *30th USENIX Security Symposium*, 2021.
- [10] 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.
- [11] 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.
- [12] 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.

Books

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

Pre-Prints

- [14] 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>.

Thesis

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

PROFESSIONAL SERVICE

Technical Program Committees

- Internet Measurement Conference 2023–2025
- 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

- 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

TEACHING

- **Instructional Assistant** at Stanford University Winter 2022
CS356: Topics in computer Networking and Security, <https://cs356.stanford.edu/>
- **Co-Creator/Co-Lecturer/Instructional Assistant** at Stanford University Fall 2021
CS249i: The Modern Internet, <https://cs249i.stanford.edu/>
- **Instructional Assistant/Discussion Section Leader** at UC San Diego Fall 2015–Winter 2017
CSE100: Advanced Data Structures in C++, assisted 4 times and textbook author
- **Instructional Assistant/Discussion Section Leader** at UC San Diego Spring 2017
CSE8B: Introduction to Programming in Java, Part 2
- **Instructional Assistant/Discussion Section Leader** at UC San Diego Fall 2017
CSE12: Introduction to Data Structures
- **Instructional Assistant/Discussion Section Leader** at UC San Diego Winter 2018
CSE8A: Introduction to Programming in Java, Part 1

STUDENTS

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

- Manda Tran (Ph.D.) 2024–Current
- Manda Tran (M.S.) 2021–2023

• Anna Ascherman (B.S)	2022
• Briana Berger (B.S/M.S.)	2021–2022
• Spencer Drakontaidis (B.S.)	2021–2022
• Jack Cable (B.S.)	2020–2021
• Drew Gregory (B.S.)	2020–2021
• Maya Ziv (M.S.)	2020–2021
• Katherine Izhikevich (B.S/M.S/Ph.D.)	2018–Current

REFERENCES

Zakir Durumeric

Assistant Professor of Computer Science
Stanford University

Geoffrey Voelker

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

Stefan Savage

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