

Paul Pearce

Donald Bren School of Information and Computer Sciences (ICS)

Computer Science Department

University of California, Irvine

Donald Bren Hall, 6210, Irvine, CA 92697

+1 (909) 223-5984 (phone)

`paul.pearce@uci.edu`

`https://pearce.prof`

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I Earned Degrees

Degree	Year	University	Field
Ph.D.	2018	University of California, Berkeley	Computer Science
M.S.	2013	University of California, Berkeley	Computer Science
B.S.	2009	University of California, Berkeley	Electrical Engineering and Computer Science

II Employment History

Title	Organization	Years
Associate Professor	Donald Bren School of Information and Computer Science University of California, Irvine	01/2026–Present
Adjunct Associate Professor	College of Computing Georgia Institute of Technology	01/2026–Present
Associate Professor	College of Computing Georgia Institute of Technology	08/2025–12/2025
Assistant Professor	College of Computing Georgia Institute of Technology	08/2019–07/2025
Visiting Research Scientist	Site Integrity Facebook, Inc.	09/2018–07/2019
Research and Teaching Assistant	CS Department University of California, Berkeley	08/2010–08/2018

III Honors and Awards

1. **ACM IMC Best Poster Award** November 2024
2. **NSF CAREER Award** February 2023
3. **DARPA Riser 2022** October 2022
4. **ACM IMC Community Contribution Award** October 2022
5. **Fall 2021 Student Recognition of Excellence in Teaching: Class of 1934 CIOS Honor Roll** Fall 2021
6. **SIGSAC Doctoral Dissertation Award Runner-Up** Awarded by the ACM Oct 2019
7. **Distinguished Practical Paper** Awarded by the IEEE Symposium on Security and Privacy May 2015
8. **EECS Distinguished GSI Award** Awarded by UC Berkeley CS Department Apr 2014
9. **NSFGRF Honorable Mention (Operating Systems & Middleware)** Awarded by the NSF Apr 2011
10. **GAANN Fellowship** Awarded by the UC Berkeley CS Department Aug 2010 - May 2011
11. **Eugene L. Lawler Prize** Awarded by the UC Berkeley EECS Department Jun 2010
12. **Fong Family Scholarship** Awarded by the UC Berkeley EECS Department May 2009
13. **Eta Kappa Nu Member and Officer** Awarded by Eta Kappa Nu May 2008 - May 2010
14. **AMATYC Student Mathematics League Award** Awarded by Chaffey Community College May 2007

15. **Jack White Engineering Physics Award** Awarded by Chaffey Community College May 2006
16. **Arthur E. & Gladys P. Flum Award** Awarded by Chaffey Community College May 2006
17. **1st Place, ACM Regional Programming Comp., Community College Div.** Awarded by the ACM May 2005

IV Research, Scholarship, and Creative Activities

A Refereed Publications and Submitted Articles

A.1 Conference Publications with Proceedings (Refereed)

- [C1] H. Hue, A. Bhaskar, A. Hsu, P. Pearce, F. Li, “Exploring the Exposure of IPv6 End-Host Networks”, *ACM Conference on Computer and Communications Security (CCS)*, 2026
- [C2] S. Minocha, I. Sheridan, H. Oppenheimer, P. Pearce, M. A. Specter, “Papers, Please: A First Look at Age Verification on the Web”, *IEEE Symposium on Security and Privacy (Oakland)*, 2026
- [C3] A. Hsu, N. Feamster, P. Pearce, F. Li, “The Impact of IP Version on Household Internet Speed”, *ACM SIGMETRICS*, 2026
- [C4] M. Erdemir, F. Li, P. Pearce, “Understanding IPv6 Aliases and Detection Methods”, *Passive and Active Measurement (PAM)*, Mar 2025
- [C5] A. Bhaskar, P. Pearce, “Understanding Routing-Induced Censorship Changes Globally”, *ACM Conference on Computer and Communications Security (CCS)*, Oct 2024
- [C6] G. Williams, P. Pearce, “Seeds of Scanning: Exploring the Effects of Datasets, Methods, and Metrics on IPv6 Internet Scanning”, *ACM Internet Measurement Conference*, Oct 2024
- [C7] K. Stevens, M. Erdemir, H. Zhang, T. Kim, P. Pearce, “BluePrint: Automatic Malware Signature Generation for Internet Scanning”, *International Symposium on Research in Attacks, Intrusions and Defenses (RAID)*, Sep 2024
- [C8] G. Williams, M. Erdemir, A. Hsu, S. Bhat, A. Bhaskar, F. Li, P. Pearce, “6SENSE: Internet-Wide IPv6 Scanning and its Security Applications”, *USENIX Security Symposium (USENIX)*, Aug 2024
- [C9] Q. Xie, M. V. K. Murali, P. Pearce, F. Li “Arcanum: Detecting and Evaluating the Privacy Risks of Browser Extensions on Web Pages and Web Content”, *USENIX Security Symposium (USENIX)*, Aug 2024
- [C10] A. Hsu, F. Li, P. Pearce, O. Gasser, “A First Look At NAT64 Deployment In-The-Wild”, *Passive and Active Measurement (PAM)*, Mar 2024
- [C11] A. Hsu, F. Li, P. Pearce, “Fiat Lux: Illuminating IPv6 Apportionment With Different Datasets”, *ACM SIGMETRICS*, Jun 2023
- [C12] B. Tanveer, R. Singh, P. Pearce, R. Nithyanand, “Glowing in the Dark: Uncovering IPv6 Address Discovery and Scanning Strategies in the Wild”, *USENIX Security Symposium (USENIX)*, Aug 2023
- [C13] C. Oh, D. McCoy, C. Kanich, P. Pearce, “Cart-ology: Intercepting Targeted Advertising via Ad Network Identity Entanglement”, *ACM Conference on Computer and Communications Security (CCS)*, Nov 2022
- [C14] L. Izhikevich, G. Akiwate, B. Berger, S. Drakontaidis, A. Ascheman, P. Pearce, D. Adrian, Z. Durumeric, “ZDNS: A Fast DNS Toolkit for Internet Measurement”, *ACM Internet Measurement Conference*, Oct 2022.
Community Contribution Award
- [C15] A. Bhaskar, P. Pearce, “Many Roads Lead To Rome: How Packet Headers Influence DNS Censorship Measurement”, *31st USENIX Security Symposium (USENIX)*, Aug 2022
- [C16] T. Xu, G. Goossen, H. K. Cevahir, S. Khodeir, Y. Jin, F. Li, S. Shan, S. Patel, D. Freeman, P. Pearce, “Deep Entity Classification: Abusive Account Detection for Online Social Networks”, *30th USENIX Security Symposium (USENIX)*, Aug 2021

- [C17] K. Cohn-Gordon, G. Damaskinos, D. Neto, J. Cordova, B. Reitz, B. Strahs, D. Obenshain, P. Pearce, I. Papagianis, “DELF: Safeguarding deletion correctness in Online Social Networks”, *29th USENIX Security Symposium (USENIX)*, Aug 2020
- [C18] F. Kozlov, I. Yuen, J. Kowalczyk, D. Bernhardt, D. Freeman, P. Pearce, I. Ivanov, “Evaluating Changes to Fake Account Verification Systems”, *23rd International Symposium on Research in Attacks, Intrusions and Defenses (RAID)*, Oct 2020
- [C19] V. Guo Li, M. Dunn, D. McCoy, G. M. Voelker, S. Savage, P. Pearce, K. Levchenko, “Reading the Tea leaves: A Comparative Analysis of Threat Intelligence”, *28th USENIX Security Symposium (USENIX)*, Aug 2019
- [C20] M. Rezaeirad, B. Farinholt, H. Dharmdasani, P. Pearce, K. Levchenko, D. McCoy, “Schrodinger’s RAT: Profiling the Stakeholders in the Remote Access Trojan Ecosystem”, *27th USENIX Security Symposium (USENIX)*, Aug 2018
- [C21] P. Pearce, B. Jones, F. Li, R. Ensafi, N. Weaver, N. Feamster, V. Paxson, “Global Measurement of DNS Manipulation”, *26th USENIX Security Symposium (USENIX)*, Aug 2017
- [C22] R. Singh, R. Nithyanand, S. Afroz, P. Pearce, M. C. Tschantz, P. Gill, V. Paxson, “Characterizing the Nature and Dynamics of Tor Exit Blocking”, *26th USENIX Security Symposium (USENIX)*, Aug 2017
- [C23] P. Pearce, R. Ensafi, F. Li, N. Feamster, V. Paxson, “Augur: Internet-Wide Detection of Connectivity Disruptions”, *38th IEEE Symposium on Security and Privacy (Oakland)*, May 2017
- [C24] B. Farinholt, M. Rezaeirad, P. Pearce, H. Dharmdasani, H. Yiny, S. Le Blond, D. McCoy, K. Levchenko, “To Catch a Ratter: Monitoring the Behavior of Amateur DarkComet RAT Operators in the Wild”, *38th IEEE Symposium on Security and Privacy (Oakland)*, May 2017
- [C25] K. Thomas, E. Bursztein, C. Grier, G. Ho, N. Jagpal, A. Kapravelos, D. McCoy, A. Nappa, V. Paxson, P. Pearce, N. Provos, M. A. Rajab, “Ad Injection at Scale: Assessing Deceptive Advertisement Modifications”, *36th IEEE Symposium on Security and Privacy (Oakland)*, May 2015. **Distinguished Practical Paper**
- [C26] P. Pearce, V. Dave, C. Grier, K. Levchenko, S. Guha, D. McCoy, V. Paxson, S. Savage, G. M. Voelker, “Characterizing Large-Scale Click Fraud in ZeroAccess”, *21st ACM Conference on Computer and Communications Security (CCS)*, Nov 2014
- [C27] P. Pearce, C. Grier, V. Paxson, V. Dave, D. McCoy, G. M. Voelker, and S. Savage. “The ZeroAccess Auto-Clicking and Search-Hijacking Click Fraud Modules”, *Technical report, EECS Department, University of California, Berkeley*, Dec 2013
- [C28] P. Pearce, G. Nunez, A. P. Felt, and D. Wagner, “AdDroid: Privilege Separation for Applications and Advertisers in Android”, *7th ACM Symposium on Information, Computer and Communications Security (ASIACCS)*, May 2012
- [C29] B. Miller, P. Pearce and C. Grier, C. Kreibich, V. Paxson, “What’s Clicking What? Techniques and Innovations of Today’s Clickbots”, *8th Conference on Detection of Intrusions and Malware & Vulnerability Assessment (DIMVA)*, Jul 2011
- [C30] J. A. Colmenares, S. Bird, H. Cook, P. Pearce, D. Zhu, J. Shalf, K. Asanovic, and J. Kubiatowicz. “Resource Management in the Tessellation Manycore OS”, *USENIX Workshop on Hot Topics in Parallelism (HotPar)*, Jun 2010

A.2 Published and Accepted Journal Publications

- [31] P. Pearce, R. Ensafi, F. Li, N. Feamster, V. Paxson, “Towards Continual Measurement of Global Network-Level Censorship”, *IEEE Security & Privacy, Special Issue*, Feb 2018

A.3 Other Refereed Material

- [32] Z. Yazdani, P. Pearce, A. Dainotti, C. Testart, “Poster: Investigating Network Security Post-Outage: Open Ports Vulnerabilities”, *Internet Measurement Conference (IMC)*, Oct 2024. Best Poster Award
- [33] P. Pearce, B. Jones, F. Li, R. Ensafi, N. Weaver, N. Feamster, V. Paxson, “Global Measurement of DNS Manipulation”, *USENIX ;login: (Magazine Article)*, Winter 2017
- [34] K. Klues, B. Rhoden, D. Zhu, P. Pearce, E. Brewer, J. Kubiawicz. “Abstractions for Scalable Operating Systems on Manycore Architectures”. Work-In-Progress Poster, *22nd ACM Symposium on Operating Systems Principles (SOSP)*, Oct 2009

B Other Publications and Creative Products

B.1 Software Release

- ZMap: Fast Internet-Wide Scanner. <https://github.com/zmap/zmap>
Co-Developer and Co-Maintainer 2015-Present
More than 3,800 stars on Github and extensively used in academia and industry.
- ZDNS: Fast CLI Utility for Large-Scale DNS Lookups <https://github.com/zmap/zdns>
Co-Developer and Co-Maintainer 2016-Present
More than 450 stars on Github.

C Presentations

C.1 Conference Presentations (Submitted and Accepted)

1. Global Measurement of DNS Manipulation, 26th USENIX Security Symposium (USENIX), Aug 2017
2. Characterizing Large-Scale Click Fraud in ZeroAccess, 21st ACM Conference on Computer and Communications Security (CCS), Nov 2014
3. AdDroid: Privilege Separation for Applications and Advertisers in Android, 7th Symposium on Information, Computer and Communications Security (ASIACCS), May 2012
4. What’s Clicking What? Techniques and Innovations of Today’s Clickbots, 8th Conf. on Detection of Intrusions and Malware & Vuln. Assessment (DIMVA), Jul 2012

C.2 Invited Seminars

1. Expectation vs Reality: How Network Abstractions Impact Internet Security, CyLab, Sep 2026
2. Expectation vs Reality: How Network Abstractions Impact Internet Security, University of Southern California, Mar 2026
3. Expectation vs Reality: How Network Abstractions Impact Internet Security, University of California, Irvine, Feb 2026
4. Prevalence: Unbiased Service Abuse Measurement, Microsoft Digital Crime Conference (DCC), Mar 2019
5. Methods and Systems for Understanding Large-Scale Internet Threats, Facebook, Spring 2018
6. Methods and Systems for Understanding Large-Scale Internet Threats, University of Virginia (UVA), Apr 2018
7. Methods and Systems for Understanding Large-Scale Internet Threats, University of Massachusetts, Amherst, Apr 2018

8. Methods and Systems for Understanding Large-Scale Internet Threats, Northeastern University (NEU), Mar 2018
9. Methods and Systems for Understanding Large-Scale Internet Threats, University of North Carolina, Chapel Hill (UNC), Mar 2018
10. Methods and Systems for Understanding Large-Scale Internet Threats, University of Maryland (UMD), Mar 2018
11. Methods and Systems for Understanding Large-Scale Internet Threats, University of California, Santa Barbara (UCSB), Mar 2018
12. Methods and Systems for Understanding Large-Scale Internet Threats, University of Chicago (UChicago), Mar 2018
13. Methods and Systems for Understanding Large-Scale Internet Threats, New York University, Tandon School of Engineering (NYU), Mar 2018
14. Methods and Systems for Understanding Large-Scale Internet Threats, Georgia Institute of Technology (Georgia Tech), Feb 2018
15. Methods and Systems for Understanding Large-Scale Internet Threats, University of Wisconsin, Madison (UWM), Feb 2018
16. Methods and Systems for Understanding Large-Scale Internet Threats, Carnegie Mellon University (CMU), Feb 2018
17. Global Measurement of DNS Manipulation, University of Illinois at Urbana-Champaign ITI Seminar Oct 2017
18. Global Measurement of DNS Manipulation, Cloudflare Seminar, Sep 2017
19. Global Measurement of DNS Manipulation, University of Michigan Security Seminar, Jul 2017
20. Global Measurement of DNS Manipulation, University of Illinois Security Seminar, Jul 2017
21. Understanding Threat Intelligence, Berkeley EECS Annual Research Symposium (BEARS), Feb 2016
22. Characterizing Large-Scale Click Fraud in ZeroAccess, Messaging, Malware and Mobile Anti-Abuse Working Group (M3AAWG), Oct 2015
23. Monetizing ZeroAccess: Inside the ZA-hosted Click-fraud Malware, Google Abuse Summit, May 2014
24. Monetizing ZeroAccess: Inside the ZA-hosted Click-fraud Malware, Microsoft Digital Crime Conference (DCC), Mar 2014

D Grants and Contracts

D.1 As Principal Investigator

Conference: NSF NeTS Early-Career Investigators Workshop 2024

NSF

Total Dollar Amount: \$87,421, Total GT Dollar Amount: \$87,421

Role: PI

Collaborators Outside GT: Justine Sherry and Chris Briton

Award Period: 2024-2025

IMR: MM-1C: Methods and Metrics for IPv6 Internet Scanning

NSF

Total Dollar Amount: \$600,000, Total GT Dollar Amount: \$600,000
Role: PI
Collaborators at GT: Frank Li (co-PI)
Award Period: 10/2023 - 9/2027
Candidate's Share of GT portion: 50% (\$300,000)

Collaborative Research: SaTC: CORE: Medium: Understanding and Combatting Impersonation Attacks and Data Leakage in Online Advertising

NSF
Total Dollar Amount: \$1,200,000, Total GT Dollar Amount: \$400,000
Role: PI
Collaborators Outside GT: Chris Kanich, UIC (co-PI), Damon McCoy, NYU (co-PI)
Award Period: 7/2023 - 6/2027
Candidate's Share of GT portion: 100% (\$400K)

CAREER: Next-Generation Active Internet Measurement

NSF
Total Dollar Amount: \$663,744, Total GT Dollar Amount: \$663,744
Role: PI
Award Period: 7/2023 - 6/2028
Candidate's Share of GT portion: 100%

Scanning-Adaptive Network Deception

Office of Naval Research
Total Dollar Amount: \$172,945, Total GT Dollar Amount: \$172,945
Role: PI
Award Period: 12/2022 - 5/2024
Candidate's Share of GT portion: 100%

AI Driven IPv6 Internet Scanning and Binary Analysis Driven Internet Scanning / Research and develop methods for developing IPv6, and malware scanning systems

Research contract with Cisco Inc.
Total Dollar Amount: \$175,000
Role: PI
Collaborators: None
Period of Contract: 5/2021 - 5/2023
Candidate's Share: 100% (\$175,000)

Gift in support of research including: Understanding and Combating Surreptitious Website Scraping by Browser Extensions

Gift from Facebook, Inc.
Total Dollar Amount: \$400,000
Role: PI
Collaborators: Frank Li
Period of Contract: N/A
Candidate's Share: 50% (\$200,000)

D.2 As Co-Principal Investigator

Interactive Editing Techniques for Subsetting and Dialecting Network Protocols

Office of Naval Research

Total Dollar Amount: \$2,976,781

Role: co-PI

Collaborators at GT: Taesoo Kim (PI), Wenke Lee (co-PI), Brendan Saltaformaggio (co-PI), Santosh Pande (co-PI), Alessandro Orso (co-PI)

Award Period: 9/2018 - 11/2022

Candidate's Share: 4% (\$120K)

TORCH: Topic-Oriented Reasoning over CensorsHip actions / Build a topic-based censorship detection system
DARPA

Total Dollar Amount: \$1,000,000, Total GT Dollar Amount: \$100,000

Role: co-PI

Collaborators at GT: Frank Li (co-PI)

Collaborators at GTRI: Bryan Massey (PI), Thomas Shields (PI)

Period of Contract: 9/2021 - 2/2022

Candidate's Share of GT portion: 50% (\$50K)

E Other Scholarly and Creative Accomplishments

F Societal and Policy Impacts

- Worked with law enforcement to identify and remediate state-sponsored APT activity. 2016-2017
- Worked with industry to identify and remediate large-scale advertising abuse. 2014
- Worked with law enforcement to identify and remediate malware and criminal activity. 2013-2014

G Other Professional Activities

G.1 Consulting

- Collaborated with Facebook Site Integrity on abusive account detection. 9/2019-11/2020

G.2 Other

- Distinguished Research Scholar, International Computer Science Institute. 9/2019-8/2020

V Education

A Courses Taught

<u>Semester/Year</u>	<u>Course</u>	<u># Students</u>	<u>Comments</u>
Fall 2025	CS 7263 - Adv. Topics in Net. Sec. and Measurement	9	
Spring 2025	CS 3235 - Introduction to Information Security	189	Co-Instructor
Fall 2023	CS 8803-EMS - Advanced Network Security	14	
Spring 2023	CS 4235 - Introduction to Information Security	167	Co-Instructor
Spring 2023	CS 6035 - Introduction to Information Security	118	Co-Instructor
Fall 2022	CS 8803-EMS - Advanced Network Security	21	
Spring 2022	CS 4235 - Introduction to Information Security	146	Co-Instructor
Spring 2022	CS 6035 - Introduction to Information Security	88	Co-Instructor
Fall 2021	CS 8803-EMS - Advanced Network Security	12	
Spring 2021	CS 4235 - Introduction to Information Security	120	COVID-19
Spring 2021	CS 6035 - Introduction to Information Security	54	COVID-19
Spring 2020	CS 4235 - Introduction to Information Security	105	COVID-19
Spring 2020	CS 6035A - Introduction to Information Security	56	COVID-19
Spring 2020	CS 6035B - Introduction to Information Security	52	COVID-19
Fall 2019	CS 8803-EMS - Advanced Network Security	7	

B Individual Student Guidance

B.1 Ph.D. Students Supervised

1. **Yejin Cho:** Summer 2026 - Present
2. **Paul Flammarion:** Spring 2026 - Present
3. **Hugo Hue:** Fall 2022 - Present
Co-advised with Frank Li
4. **Mert Erdemir:** Fall 2021 - Present
Co-advised with Frank Li
Qualifying Exam Passed Summer 2023
5. **Amanda Hsu:** Fall 2021 - Summer 2026
Co-advised with Frank Li
Defended Summer 2026, University of Chicago Postdoc
6. **Grant Williams:** Fall 2020 - Summer 2026
Defended Summer 2026, University of Maryland Postdoc
7. **Abhishek Bhaskar:** Fall 2019 - Spring 2026
Defended Spring 2026, Censys - UC Irvine Postdoc
8. **Shaarif Sajid:** Fall 2019 - Summer 2020

B.2 M.S. Projects and Special Problems Students Supervised

9. **Shraddha Bhat:** Spring 2023 - Spring 2024
Graduated Spring 2024, now Information Security Systems Engineer at Walmart Global Technologies
10. **ChangSeok Oh:** Summer 2021 - Summer 2022
Graduated Fall 2022, now Senior Software Engineer at TikTok

11. **Apurv Singh Gautam:** Spring 2020 - Spring 2021
Graduated Spring 2021, now Security Researcher at Cyble

B.3 Undergraduate Students Supervised

12. **Wooseok (Luke) Kim:** Spring 2021
Graduated Fall 2021

B.4 Thesis or Dissertation Committees

- Ph.D. Thesis Committee - Georgia Tech and University of California, Irvine
 1. **Grant Williams**, Georgia Tech, Advisor: Paul Pearce, 2026
Thesis: *Methods and Systems for IPv6 Security Measurement*
 2. **Amanda Hsu**, Georgia Tech, Advisor: Paul Pearce and Frank Li, 2026
Thesis: *Evaluating the State of Internet Deployments*
 3. **Sena Sahin**, Georgia Tech, Advisor: Frank Li, 2026
Thesis: *Translating Cybersecurity from Knowledge to Practice*
 4. **Abhishek Bhaskar**, Georgia Tech, Advisor: Paul Pearce, 2026
Thesis: *Understanding and Improving Internet Censorship Measurement*
 5. **Jason Kim**, Georgia Tech, Advisor: Daniel Genkin, 2025
Thesis: *Characterizing Microarchitectural Side-channel Threats on the Security of Web Browsers*
 6. **Roomi Suood** Georgia Tech, Advisor: Frank Li, 2024
Thesis: *Empirical Measurements of the Security and Privacy of Website Password Authentication*
 7. **Mathew Landen** Georgia Tech, Advisor: Wenke Lee, 2024
Thesis: *Achieving Trustworthy Industrial Control Systems Using Data-Driven Models Informed by Physical Domain Knowledge*
 8. **Dhruv Kuchhal** Georgia Tech, Advisor: Frank Li, 2023
Thesis: *Real or Not? Empirically Evaluating Web Security and Privacy Concerns*
 9. **Joe Allen** Georgia Tech, Advisor: Wenke Lee, 2023
Thesis: *Forensics and Auditing for Web-Based Attacks in the Modern Web*
 10. **Jinho Jung** Georgia Tech, Advisor: Taesoo Kim, 2021
Thesis: *Practical systems for strengthening and weakening binary analysis frameworks*
 11. **Shan Chen** Georgia Tech, Advisor: Alexandra Boldyreva, 2019
Thesis: *Towards secure communication and authentication: Provable security analysis and new constructions*
- Ph.D. Thesis Committee - External
 12. **Nguyen Phong Hoang** Stony Brook University, Advisor: Michalis Polychronakis, 2021
Thesis: *Tackling Online Surveillance and Censorship With Empirical Network Measurement*
- M.S. Thesis Committee - Georgia Tech
 13. **Gabriela Lopez** College of Engineering, Advisor: Brendan Saltaformaggio, 2022
Thesis: *The Automation of Finding Security Bugs using Fuzzing and the Profiling of Performance Counters*
 14. **Fabian Kilger** College of Engineering, Advisor: Brendan Saltaformaggio, 2020
Thesis: *Extracting ICS Models from Malware via Concolic Analysis*
- B.S. Thesis Committee - Georgia Tech
 15. **John Choi** College of Computing, Advisor: Milton Mueller, 2021
Thesis: *Fingerprinting DNS over HTTPS (DoH)*

C Educational Innovations and Other Contributions

C.1 Curriculum Development

CS 8803 EMS (Advanced Network Security and Measurement): Created, developed, and taught a PhD level course focused on the role of empiricism in advanced network security research. The goal of the course is to prepare fresh PhD students for network security research, with an emphasis in paper reading, writing, and research output. The course also focuses on the role of ethics and law in security research. This course was adopted as permanent course as CS7263: Advanced Topics in Network Security and Measurement.

VI Service

A Professional Contributions

A.1 Program Committee Service

1. **USENIX Security Ethics Chair:** 36th USENIX Security Symposium 2027
2. **USENIX Security Vice Program Chair:** 35th USENIX Security Symposium 2026
3. **USENIX Security Program Committee:** 34th USENIX Security Symposium 2025
4. **ACM IMC Program Committee:** ACM Internet Measurement Conference 2025
5. **IEEE Euro S&P Program Committee:** IEEE European Symposium on Security and Privacy 2025
6. **USENIX Security Program Committee:** 33rd USENIX Security Symposium 2024
7. **IEEE S&P Program Committee:** IEEE Symposium on Security and Privacy 2024
8. **ACM IMC Program Committee:** ACM Internet Measurement Conference 2023
9. **PETS Program Committee:** 23rd Privacy Enhancing Technologies Symposium 2023
10. **IEEE S&P Program Committee:** IEEE Symposium on Security and Privacy 2022
11. **USENIX Security Program Committee:** 31th USENIX Security Symposium 2022
12. **CCS Program Committee:** 28th Conf. on Computer and Comm. Security 2021
13. **USENIX Security Program Committee:** 30th USENIX Security Symposium 2021
14. **IEEE S&P Program Committee:** 42nd IEEE Symposium on Security and Privacy 2021
15. **CCS Program Committee:** 27th Conf. on Computer and Comm. Security 2020
16. **IEEE S&P Program Committee:** 41st IEEE Symposium on Security and Privacy 2020
17. **USENIX Security Program Committee:** 29th USENIX Security Symposium 2020
18. **CCS Program Committee:** 26th Conf. on Computer and Comm. Security 2019
19. **RAID Program Committee:** 22nd Sym. on Research in Attacks, Intrusions and Defenses 2019
20. **WOOT Program Committee:** 13th USENIX Workshop on Offensive Technologies 2019
21. **PETS Program Committee:** 20th Privacy Enhancing Technologies Symposium 2019-2020
22. **PETS Program Committee:** 19th Privacy Enhancing Technologies Symposium 2018-2019
23. **PETS Program Committee:** 18th Privacy Enhancing Technologies Symposium 2017-2018
24. **USENIX Security PC Scribe:** 25th USENIX Security Symposium 2016

A.2 Other Professional Service

- | | |
|--|-----------------------|
| 25. IEEE S&P Test of Time Awards Committee: IEEE Symposium on Security and Privacy | 2024 |
| 26. NSF Panel Member: Reviewed NSF Proposals | 2023 |
| 27. CI Fellows Reviewer: CRA Computing Innovation Fellows Application reviewer | 2021 |
| 28. Student Leader: Computer Science GSI Conference Workshop Leader, UC Berkeley | Aug 2015 |
| 29. Graduate Admissions: UC Berkeley
<i>Reviewed applications for the security research area</i> | 2014-2015 |
| 30. Graduate Admissions: UC Berkeley
<i>Reviewed applications for diversity</i> | 2013-2014 |
| 31. Student Leader: CS Graduate Student Association President, UC Berkeley | 2013-2014 |
| 32. Student Leader: CS Graduate Student Association Officer, UC Berkeley | 2010-2015 |
| 33. Student Leader: EECS Department Undergraduate Study Committee, UC Berkeley | 2009-2011 |
| 34. Student Leader: Eta Kappa Nu Member and Officer, UC Berkeley | 2008-2010 |
| 35. Mentoring: EECS Peers, UC Berkeley | Fall 2013 - Fall 2015 |

B Professional Membership

- | | |
|------------------|--------------|
| 1. ACM Member | 2019-Present |
| 2. IEEE Member | 2025-Present |
| 3. USENIX Member | 2020-Present |

C Institute Contributions

C.1 On-campus UC Irvine Committees

- | | |
|--|------|
| 1. ICS IT Director Search Committee, ICS | 2026 |
| 2. AI Program Exploration Committee, Computer Science Department | 2026 |
| 3. Graduate Admissions Committee, Computer Science Department | 2026 |

C.2 On-campus Georgia Tech Committees

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| 1. School of Cybersecurity and Privacy School Advisory Committee (SAC) | 2022-2025 |
| 2. School of Cybersecurity and Privacy TSO Advisor | 2020-2025 |
| 3. School of Cybersecurity and Privacy Grad Committee Member | 2022-2023 |
| 4. School of Cybersecurity and Privacy Faculty Search Committee Member | 2021-2022 |
| 5. School of Cybersecurity and Privacy Chair Search Committee Member | 2021-2022 |
| 6. School of Cybersecurity and Privacy Space Working Group | 2021 |
| 7. School of Cybersecurity and Privacy Admissions Committee Lead | 2021 |

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| 8. School of Cybersecurity and Privacy Research Infrastructure Committee | 2020-2021 |
| 9. School of Computer Science PhD Recruitment Visit Coordinator | 2020-2021 |
| 10. School of Computer Science PhD Recruitment Visit Coordinator | 2019-2020 |

C.3 Member of Ph.D. Qualifying / Advancement Committees

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| 1. Priya Govindasamy , UC Irvine, Advisor: Ardalan Amiri Sani | May 2026 |
| 2. Kevin Stevens Georgia Tech, Advisor: Taesoo Kim | 2024 |
| 3. Hrivid Taneja Georgia Tech, Advisor: Moinuddin Qureshi | 2023 |
| 4. Qinge Xie Georgia Tech, Advisor: Frank Li | 2023 |
| 5. Zhiyi Chen Georgia Tech, Advisor: Alberto Dainotti | 2023 |
| 6. Jason Kim Georgia Tech, Advisor: Daniel Genkin | 2023 |
| 7. Thanos Avgetidis Georgia Tech, Advisor: Manos Antonakakis | 2023 |
| 8. Suood Alroomi Georgia Tech, Advisor: Frank Li | 2023 |
| 9. Ding Zhang Georgia Tech, Advisor: Wenke Lee | 2023 |
| 10. Ammar Askar Georgia Tech, Advisor: Taesoo Kim | 2022 |
| 11. Changseok Oh Georgia Tech, Advisor: Wenke Lee | 2021 |
| 12. Mathew Landen Georgia Tech, Advisor: Wenke Lee | 2021 |
| 13. Zhengxian He Georgia Tech, Advisor: Mustaque Ahamad | 2020 |
| 14. Kyuhong Park Georgia Tech, Advisor: Mustaque Ahamad | 2020 |
| 15. Miuyin Yong Wong Georgia Tech, Advisor: Mustaque Ahamad | 2020 |
| 16. Joey Allen Georgia Tech, Advisor: Wenke Lee | 2019 |