AMANDA C. HSU

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EDUCATION

Georgia Institute of Technology *August 2026*
Ph.D. in Computer Science
Advisors: Paul Pearce, Frank Li

University of Illinois at Urbana-Champaign *May 2021*
B.S. Computer Engineering, with Honors

ACADEMIC APPOINTMENTS

University of Chicago *October 2026 - Present*
Postdoctoral Scholar
Advisor: Nick Feamster

PUBLICATIONS

1. *Detecting and Characterizing Massively Shared IP Addresses*
   Amanda Hsu, Frank Li, Paul Pearce, Arthur Berger, Philipp Richter
   2026 ACM CoNEXT (to appear)
2. *Exploring the Exposure of IPv6 End-Host Networks*
   Hugo Hue, Abhishek Bhaskar, **Amanda Hsu**, Paul Pearce, Frank Li
   2026 ACM CCS (to appear)
3. *The Impact of IP Version on Household Internet Speed: A Comparative Study*
   Amanda Hsu, Nick Feamster, Paul Pearce, Frank Li
   2026 ACM SIGMETRICS
4. *6SENSE: Internet-Wide IPv6 Scanning and its Security Applications*
   Grant Williams, Mert Erdemir, **Amanda Hsu**, Shraddha Bhat, Abhishek Bhaskar, Frank Li, Paul Pearce
   USENIX Security Symposium 2024
5. *A First Look At NAT64 Deployment In-The-Wild*
   Amanda Hsu, Frank Li, Paul Pearce, Oliver Gasser
   Passive and Active Measurement Conference (PAM) 2024
6. *Fiat Lux: Illuminating IPv6 Apportionment with Different Datasets*
   Amanda Hsu, Frank Li, Paul Pearce
   2023 ACM SIGMETRICS
7. *Revisiting Client Puzzles for State Exhaustion Attacks Resilience*
   Mohammad A. Noureddine, Ahmed M. Fawaz, **Amanda Hsu**, Cody Guldner, Sameer Vijay, Tamer Başar, William H. Sanders
   IEEE/IFIP International Conference on Dependable Systems and Networks (DSN) 2019
8. *P4 AIG: Circuit-Level Verification of P4 Programs*
   Mohammad A. Noureddine, **Amanda Hsu**, Matthew Caesar, Fadi A. Zaraket, William H. Sanders
   IEEE/IFIP International Conference on Dependable Systems and Networks (DSN) 2019

FELLOWSHIPS

- Graduate Research Fellowship Program (GRFP), *National Science Foundation (NSF) 2022 - 2025*
- President's Fellow, *Georgia Institute of Technology* *2021-2025*
- ARIN 55 Fellow *2025*
- Herbert P. Haley Fellowship, *Georgia Institute of Technology* *2022*

PROFESSIONAL SERVICE

- Program Committee Member, NSDI 2027
- Program Committee Member, USENIX Security 2027
- Volunteer:
  - Student Volunteer, NSF NeTs Early Career Workshop 2025
  - Student Volunteer, EECS Rising Stars Workshop 2023
  - Lead Student Organizer, ACM SIGCOMM 2021
  - Student Program Committee Volunteer, ACM SIGCOMM 2021
  - Student Organizer, ACM SIGCOMM 2020
- Other Review Experience:
  - Shadow Program Committee Member, ACM SIGMETRICS 2026
  - External Reviewer, IEEE S&P 2025
  - External Reviewer, USENIX NSDI 2021
  - External Reviewer, ACM CCS 2020

TEACHING EXPERIENCE

Teaching Assistant **CS6250 - Graduate Networks** *August 2024 - December 2024*
- Instructor: Professor Alberto Dainotti

Teaching Assistant **CS8803 - Securing Internet Infrastructure** *January 2023 - May 2023*
- Instructor: Professor Cecilia Testart

INVITED TALKS

- IETF 120 (MAPRG): A First Look At NAT64 Deployment In-The-Wild *July 2024*

INDUSTRY EXPERIENCE

Research Intern **Akamai** *May 2025 - August 2026*
- Implemented method of shared IP technology (including NAT, proxies, VPNs) detection based on traffic patterns.

Research Intern **Censys** *May 2021 - August 2021*
- Designed and implemented methods of HTTP scanning to attribute domains, IP addresses, and certificates to organizations.

Software Engineering Intern **Censys** *May 2020 - August 2020*
- Improved attribution system that utilizes Internet-wide scan data to associate assets including hosts, certificates, and domains, to customers.