

# DANIEL J. VOTIPKA

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## Academic Appointments

### Tufts University

Lin Family Assistant Professor, Computer Science

Medford, MA

2021-Present

## Education

### University of Maryland

Ph.D., Computer Science

*Advisor:* **Michelle L. Mazurek**

*Committee:* Michael Hicks, Jeffrey S. Foster, Michael Reiter, and Katie Shilton

*Dissertation:* ***A Human-Centric Approach to Software Vulnerability Discovery***

*Teaching Training:* Future Faculty Fellows

College Park, MD

2016-2020

### Carnegie Mellon University

M.S. Information Security, Technology, and Management

*Advisor:* **Nicolas Christin**

*Thesis:* ***A General Collection Methodology for Android Devices***

Pittsburgh, PA

2010-2012

### Illinois Institute of Technology

B.S. Computer Science

Chicago, IL

2006-2010

## Selected Publications

### Conference Proceedings

- C.27 Expert Insights into Advanced Persistent Threats: Analysis, Attribution, and Challenges.  
**USENIX** Aakanksha Saha, James A. Mattei, Jorge Blasco, Lorenzo Cavallaro, **Daniel Votipka**, and  
'25 Martina Lindorfer. In the USENIX Security Symposium, 2025.
- C.26 “I’m trying to learn...and I’m shooting myself in the foot”: Beginners’ Struggles When  
**USENIX** Solving Binary Exploitation Exercises. James A. Mattei, Christopher Pellegrini, Matthew  
'25 Soto, Marina Sanusi Bohuk, and **Daniel Votipka**. In the USENIX Security Symposium,  
2025.
- C.25 “Threat modeling is very formal, it’s very technical, and it’s also very hard to do correctly”:  
**USENIX** Investigating Threat Modeling Practices in Open-Source Software Projects. Harjot Kaur,  
'25 Carson Powers, Ronald E. Thompson, Sascha Fahl, and **Daniel Votipka**. In the USENIX  
Security Symposium, 2025.
- C.24 An Investigation of Interaction and Information Needs for Protocol Reverse Engineering  
**CHI** Automation. Samantha Katcher, James A. Mattei, Jared Chandler, and **Daniel Votipka**. In  
'25 the Conference on Human Factors in Computing Systems, 2025.
- C.23 Using AI Assistants in Software Development: A Qualitative Study on Security Practices and  
**CCS** Concerns. Jan H. Klemmer, Stefan Albert Horstmann, Nikhil Patnaik, Cordelia Ludden,  
'24 Cordell Burton Jr., Carson Powers, Fabio Massacci, Akond Rahman, **Daniel Votipka**,  
Heather Richter Lipford, Awais Rashid, Alena Naiakshina, Sascha Fahl. In the Conference  
on Computer and Communications Security, 2024. **SOUPS Distinguished Poster Award**

- C.22 A Survey of Cybersecurity Professionals' Perceptions and Experiences of Safety and  
**SOUPS** Belonging in the Community. Samantha Katcher, Liana Wang, Caroline Yang, Chloé  
 '24 Messdaghi, Michelle L. Mazurek, Marshini Chetty, Kelsey R. Fulton, **Daniel Votipka**. In the  
 Symposium on Usable Privacy and Security, 2024. [*Acceptance Rate: 21%*]
- C.21 "I can say I'm John Travolta...but I'm not John Travolta": Investigating the Impact of  
**SOUPS** Changes to Social Media Verification Policies on User Perceptions of Verified Accounts.  
 '24 Carson Powers, Nickolas Gravel, Christopher Pellegrini, Micah Sherr, Michelle L. Mazurek,  
**Daniel Votipka**. In the Symposium on Usable Privacy and Security, 2024. [*Acceptance  
 Rate: 21%*]
- C.20 "There are rabbit holes I want to go down that I'm not allowed to go down": An  
**USENIX** Investigation of Security Expert Threat Modeling Practices for Medical Devices. Ronald  
 '24 Thompson, Madeline McLaughlin, Carson Powers, **Daniel Votipka**. In the USENIX  
 Security Symposium, 2024. [*Acceptance Rate: 18.3%*]
- C.19 An Investigation of US Universities' Implementation of FERPA Student Directory Policies  
**CHI** and Student Privacy Preferences. Sarah Radway, Katherine Quintanilla, Cordelia Ludden,  
 '24 **Daniel Votipka**. In the Conference on Human Factors in Computing Systems, 2022.  
 [*Acceptance Rate: 26.4%*]
- C.18 Bug Hunters' Perspectives on the Challenges and Benefits of the Bug Bounty Ecosystem.  
**USENIX** Omer Akgul, Taha Eghtesad, Amit Elazari, Omprakash Gnawali, Jens Grossklags, Michelle  
 '23 L. Mazurek, **Daniel Votipka**, Aron Laszka. In the USENIX Security Symposium, 2023.  
 [*Acceptance Rate: 29%*] ***Distinguished Paper Award***
- C.16 Everybody's Got ML, Tell Me What Else You Have: Practitioners' Perception of ML-Based  
**IEEE** Security Tools and Explanations. Jaron Mink, Hadjer Benkraouda, Limin Yang, Arridhana  
**S&P '23** Ciptadi, Ali Ahmadzadeh, **Daniel Votipka**, Gang Wang. In the IEEE Symposium on Security  
 and Privacy, 2023. [*Acceptance Rate: 18%*]
- C.16 Vulnerability Discovery for All: Experiences of Marginalization in Vulnerability Discovery.  
**IEEE** Kelsey R. Fulton, Samantha Katcher, Kevin Song, Marshini Chetty, Michelle L. Mazurek,  
**S&P '23** Chloé Messdaghi, **Daniel Votipka**. In the IEEE Symposium on Security and Privacy, 2023.  
 [*Acceptance Rate: 18%*]
- C.15 A Qualitative Evaluation of Reverse Engineering Tool Usability.  
**ACSAC** James Mattei, Madeline McLaughlin, Samantha Katcher, and **Daniel Votipka**. In the Annual  
 '22 Computer Security Applications Conference, 2022. [*Acceptance Rate: 24%*]
- C.14 Understanding the How and the Why: Exploring Secure Development Practices Through a  
**CCS '22** Course Competition. Kelsey R. Fulton, **Daniel Votipka**, Desiree Abrokwa, James Parker,  
 Michelle L. Mazurek, Michael Hicks. In the Conference on Computer and Communications  
 Security, 2022. [*Acceptance Rate: 23%*]
- C.13 How Ready is Your Ready? Assessing the Usability of Incident Response Playbook  
**CHI** Frameworks. Rock Stevens, **Daniel Votipka**, Josiah Dykstra, Fernando Tomlinson, Erin  
 '22 Quartararo, Colin Ahern, Michelle L. Mazurek. In the Conference on Human Factors in  
 Computing Systems, 2022. [*Acceptance Rate: 26%*] ***Best Paper Honorable Mention***
- C.12 Studying Security Information Workers: Comparing Six Software Developer Samples.  
**USENIX** Harjot Kaur, Sabrina Amft, **Daniel Votipka**, Yasemin Acar, Sascha Fahl. In the USENIX  
 '22 Security Symposium, 2022. [*Acceptance Rate: 18%*]

- C.11 An Investigation of Online Reverse Engineering Community Discussions in the Context of Ghidra. **Daniel Votipka**, Mary Nicole Punzalan, Seth M. Rabin, Yla Tausczik, Michelle L. Mazurek. In the IEEE European Symposium on Security and Privacy, 2021. [*Acceptance Rate: 32%*]
- C.10 Benefits and Drawbacks of Adopting a Secure Programming Language: Rust as a case study. **SOUPS** Kelsey R. Fulton, Anna Chan, **Daniel Votipka**, Michael Hicks, Michelle L. Mazurek. In the Symposium on Usable Privacy and Security, 2021. [*Acceptance Rate: 26.5%*].
- C.9 HackEd: A Pedagogical Analysis of Online Vulnerability Discovery Exercises. **IEEE S&P '21** **Daniel Votipka**, Eric Zhang, Michelle L. Mazurek. In the IEEE Symposium on Security and Privacy, 2021. [*Acceptance Rate: 12%*]
- C.8 Building and Validating a Scale for Security Software Development Self-Efficacy. **CHI '20** **Daniel Votipka**, Desiree Abrokwa, Michelle L. Mazurek. In the Conference on Human Factors in Computing Systems, 2020. [*Acceptance Rate: 24%*]
- C.7 An Observational Investigation of Reverse Engineers' Processes and Mental Models. **USENIX Sec '20** **Daniel Votipka**, Seth M. Rabin, Kristopher Micinski, Jeffrey S. Foster, and Michelle L. Mazurek. In the USENIX Security Symposium, 2020. [*Acceptance Rate: 16%*]
- C.6 Understanding Security Mistakes Developers Make: Qualitative Analysis from Build It, Break It, Fix It. **USENIX Sec '20** **Daniel Votipka**, Kelsey Fulton, James Parker, Matthew Hou, Michelle L. Mazurek, and Michael Hicks. In the USENIX Security Symposium, 2020. [*Acceptance Rate: 16%*] *Distinguished Paper Award*
- C.5 Does Being Verified Make You More Credible? The Effect of Account Verification on Tweet Credibility. Tavish Vaidya, **Daniel Votipka**, Micah Sherr, and Michelle L. Mazurek. In the Conference on Human Factors in Computing Systems, 2019. [*Acceptance Rate: 24%*]
- C.4 User Comfort with Android Background Resource Accesses in Different Contexts. **SOUPS '18** **Daniel Votipka**, Kristopher Micinski, Seth M. Rabin, Thomas Gilray, Michelle L. Mazurek, and Jeffrey S. Foster. In the Symposium on Usable Privacy and Security, 2018. [*Acceptance Rate: 23%*]
- C.3 Battle for New York: A Case Study Using Center of Gravity Theory for Digital Threat Modeling. **USENIX Sec '18** Rock Stevens, **Daniel Votipka**, Elissa M. Redmiles, Patrick Sweeney, and Michelle L. Mazurek. In the USENIX Security Symposium, 2018. [*Acceptance Rate: 19%*] *Distinguished Paper Award*
- C.2 Hackers vs. Testers: A Comparison of Software Vulnerability Discovery Processes. **IEEE S&P '18** **Daniel Votipka**, Rock Stevens, Elissa M. Redmiles, Jeremy Hu, and Michelle L. Mazurek. In the IEEE Symposium on Security and Privacy, 2018. [*Acceptance Rate: 14%*]
- C.1 User Interactions and Permission Use on Android. Kristopher Micinski, **Daniel Votipka**, **CHI '17** Rock Stevens, Nikolaos Kofinas, Jeffrey S. Foster, and Michelle L. Mazurek. In the Conference on Human Factors in Computing Systems, 2017. [*Acceptance Rate: 25%*]

## Workshop Proceedings

- W.7 Understanding Symbolic Execution Workflow from Security Analysts. Zeming Yu, James Mattei, Selina Li, Ruoyu Wang, **Daniel Votipka**, and Tiffany Bao. In the Workshop on Security Information Workers, 2024.

- W.6 The Threat Modeling Naturally Tool: An Interactive Tool Supporting More Natural Flexible and Ad-Hoc Threat Modeling. Ronald E. Thompson, Madison Red, Richard Zhang, Yaejie Kwon, Lisa Dang, Christopher Pellegrini, Esam Nesru, Mira Jain, Caroline Chin, and **Daniel Votipka**. In the Workshop on Security Information Workers, 2024.
- W.5 WiP: Where's Eve? Evaluating Student Threat Modeling Performance and Perceptions. Carson Powers, Nickolas Gravel, Maxwell Mitchell, and **Daniel Votipka**. In the Workshop on Security Information Workers, 2020.
- W.4 The Hackers' Viewpoint: Exploring Challenges and Benefits of Bug-Bounty Programs. Omer Akgul, Taha Eghtesad, Amit Elazari, Omprakash Gnawali, Jens Grossklags, **Daniel Votipka**, and Aron Laszka. In the Workshop on Security Information Workers, 2020.
- W.3 On the Other Side of the Table: Hosting Capture-the-Flag (CTF) Competitions. Benjamin Carlisle, Michael Reininger, Dylan Fox, **Daniel Votipka**, and Michelle L. Mazurek. In the Workshop on Security Information Workers, 2020.
- W.2 Toward a Field Study on the Impact of Hacking Competitions on Secure Development. **Daniel Votipka**, Hongyi Hu, Bryan Eastes, and Michelle L. Mazurek. In the Workshop on Security Information Workers, 2018.
- W.1 All Your Droid Are Belong To Us: A Survey of Current Android Attacks. Timothy Vidas, **Daniel Votipka**, Nicolas Christin. In the USENIX Security Workshop on Offensive Techniques, 2011.

### *Selected Journals*

- J.4 Improving Privacy and Security of Telehealth: Multidisciplinary experts' perspectives on how to strengthen protection of patients' health information in Telehealth designs and workflows. Faiza Tazi, Josiah Dykstra, Prashanth Rajivan, Kapil Chalil Madathil, Jiovanne Hughart, James McElligott, **Daniel Votipka**, and Sanchari Das. In *Communication of the ACM*, Volume 67, Issue 9, 2024.
- J.3 Dagstuhl Seminar 19231: Empirical Evaluation of Secure Development Processes. Adam Shostack, Matthew Smith, **Daniel Votipka**, Sam Weber, and Mary Ellen Zurko, eds. In *Dagstuhl Reports*, 2019.
- J.2 Applied Digital Threat Modeling: It Works! Rock Stevens, **Daniel Votipka**, Elissa M. Redmiles, Colin Ahern, Patrick Sweeney, and Michelle L. Mazurek. In *IEEE Security and Privacy*, 2019.
- J.1 Passe-Partout: A General Collection Methodology for Android Devices. **Daniel Votipka**, Timothy Vidas, Nicolas Christin. In the *IEEE Transactions on Information Forensics and Security (TIFS)*, 2013.

### *Book Chapters*

- B.1 ISR and Cyberspace. Robert Johnson, **Daniel Votipka**, Danielle Dye, Trevor Stutting, Jamie Blummer, Tiffany Harbour, Laura LeFevre, and Thomas Shew. In **The Cyber Threat and Globalization: The Impact on U.S. National and International Security**, 2018. Edited by Jack A. Jarmon and Pano Yannakogeorgos.

## Media Coverage

### Security Professionals:

- Covered by **The Shostack + Friends Blog**: Appsec Roundup - September 2024. <https://shostack.org/blog/appsec-roundup-sept-2024/>
- Covered by **TechBeacon**: 3 application security fundamentals every developer should know (<https://techbeacon.com/security/3-application-security-fundamentals-every-developer-should-know>)
- Covered by **TechBeacon**: How to defend enterprise apps with threat modeling: 4 lessons learned (<https://techbeacon.com/security/how-defend-enterprise-apps-threat-modeling-4-lessons-learned>)

## Funding

### Grants

- G.8 “Hospital-Integrated Vulnerability Identification and Proactive Remediation (H-VIPER)”, U.S. Advanced Research Projects Agency for Health, **Co-PI**. (\$415,500), PI: Brendan Saltaformaggio, Co-PIs from Georgia Institute of Technology, Narf Industries, Georgia Tech Research Institute, Children’s Healthcare of Atlanta, Hamilton Health Care System, and Emory Healthcare. \$17,823,140. 2024 [*Under Review*]
- G.7 “CAREER: Increasing Human-Centered Threat Modeling Research’s Reliability”, U.S. National Science Foundation CAREER, **PI**. \$549,640. 2024 [*Pending*]
- G.6 “Enabling Vulnerability Analysis With More Usable Fuzzing”, U.S. National Security Agency, **Co-PI**. (33% split equal to the other Co-PIs), PI: Michelle L. Mazurek, Co-PIs: Kelsey R. Fulton. \$721,172. 2024
- G.5 “SaTC: CORE: Medium: Resurrecting SymbolicExecution in Practical Use”, U.S. National Science Foundation Secure and Trustworthy Cyberspace (SaTC) CORE, **Co-PI**. (33% split equal to the other Co-PIs), PI: Tiffany Bao, Co-PIs: Yan Shoshitaishvili. \$1,200,000. 2023
- G.4 “SaTC: CORE: Small: Understanding and Reducing Barriers to Entry and Participation in the Vulnerability Discovery Community”, U.S. National Science Foundation Secure and Trustworthy Cyberspace (SaTC) CORE, **PI**. \$599,999. 2023
- G.3 “A Usable and Shareable Tool for Software Threat Modeling”, Cisco, **PI**. (50% split equal to the Co-PI), Co-PI: Johes Bater. \$100,000. 2023
- G.2 “Medical Device Security and Threat Modeling Research”, MedCrypt Inc, **PI**. \$60,000. 2023.
- G.1 “Identifying and Reducing Barriers to Entry and Participation for Marginalized Populations in Vulnerability Discovery”, Google Research Scholar Award, **PI**. \$100,000. 2023.

### Fellowships

- Symantec Graduate Research Fellowship Finalist, **Symantec** (2019, 2020)
- Facebook Research Fellowship Finalist, **Facebook** (2019, 2020)
- University of Maryland Summer Research Fellowship, **University of Maryland** (2019)
- University of Maryland Future Faculty Fellowship, **University of Maryland** (2018)
- Google Student Veterans Association Scholarship, **Google** (2018)

## Awards and Honors

- Distinguished Paper Award, **USENIX Security** (2018,2020,2023)
- Notable Reviewer, **USENIX Security** (2023,2024)
- Best Paper Honorable Mention, **ACM CHI** (2022)
- Outstanding Reviewer, **ACM CCS** (2021)
- John Karat Usable Privacy and Security Student Research Award, **SOUPS** (2020)
- Maryland Way Award for Research Excellence - Honorable Mention, **UMD HCIL** (2020)
- Distinguished Poster Award, **SOUPS** (2018,2024)
- Outstanding Review Recognition, **CHI** (2018,2021,2023-2024)
- Outstanding Graduate Assistant (**Top 2% of 4000**), University of Maryland (2018)
- NSA TAO Military Performer of the Year (**1 of 85**), National Security Agency (2015)
- Counterterrorism Analysis Team of the Year, **U.S. Intelligence Community** (2015)
- Maj. Gen Robert E. Sadler USAF Honor Award (**Top CS/ECE/EE AFROTC senior nationwide**), AFCEA (2010)

## Presentations

### *Invited Talks*

- Vulnerability Discovery for All: Reducing Barriers to Entry and Participation in Software Vulnerability Discovery. **Illinois Institute of Technology** 2024.
- Vulnerability Discovery for All: Reducing Barriers to Entry and Participation in Software Vulnerability Discovery. **University of Chicago** 2024.
- Vulnerability Discovery for All: Reducing Barriers to Entry and Participation in Software Vulnerability Discovery. **University of Illinois at Urbana-Champaign** 2024.
- Vulnerability Discovery for All: Reducing Barriers to Entry and Participation in Software Vulnerability Discovery. **University of Denver** 2023.
- Panel on Privacy and Security of Telehealth Systems. **Human Factors and Ergonomics Society Annual Meeting** 2022.
- Vulnerability Discovery for All: Reducing Barriers to Entry and Participation in Software Vulnerability Discovery. **Georgia Institute of Technology** 2022.
- Security Professionals are Users Too!: Human-Centered Security Research Beyond the End User. **Tufts University** 2020.
- Security Professionals are Users Too!: Human-Centered Security Research Beyond the End User. **Carnegie Mellon University** 2020.
- Security Professionals are Users Too!: Human-Centered Security Research Beyond the End User. **University of Nebraska** 2019.
- Hackers vs Testers: A Comparison of Vulnerability Discovery Processes. **Swiss Cyber Storm Conference** 2019.
- Understanding security mistakes developers make: Qualitative analysis from Build It, Break It, Fix It. **High Confidence Software and Systems Conference** 2019.

### *Conferences*

- A Qualitative Evaluation of Reverse Engineering Tool Usability. **ACSAC** 2022.
- How Ready is Your Ready? Assessing the Usability of Incident Response Playbook Frameworks. **CHI** 2022.
- An Investigation of Online Reverse Engineering Community Discussions in the Context of Ghidra. **Euro S&P** 2021.
- HackEd: A Pedagogical Analysis of Online Vulnerability Discovery Exercises. **IEEE S&P** 2021.
- An Observational Investigation of Reverse Engineers' Processes and Mental Models. **USENIX Security** 2020.

- Understanding Security Mistakes Developers Make: Qualitative Analysis from Build It, Break It, Fix It. **USENIX Security 2020**.
- Building and Validating a Scale for Security Software Development Self-Efficacy. **CHI 2020**.
- Does Being Verified Make You More Credible? The Effect of Account Verification on Tweet Credibility. **CHI 2019**.
- User Comfort with Android Background Resource Accesses in Different Contexts. **SOUPS 2018**.
- Hackers vs Testers: A Comparison of Vulnerability Discovery Processes. **IEEE S&P 2018**.

## Teaching and Mentorship

### *Instructor*

#### **Tufts University**

CS 114 - **Network Security**. *Fall 2021, Spring 2023-2024*

CS 152 - **Human Factors in Security and Privacy**. *Spring 2021-2022, Fall 2023-2024*

#### **University of Maryland**

CMSC 388N - **Build It, Break It, Fix It: Competing to Secure Software**. *Winter 2020*.

#### **Georgetown University**

COSC 235 - **Introduction to Network Security**. *Fall 2017*.

## Research Advising

### **Doctoral**

Hamza Khalid

*Fall 2024 - Present*

Oluwatomilola Idowu

*Fall 2024 - Present*

Carson Powers

*Fall 2021 - Present*

• *Linda M. Abriola Graduate Fellowship, 2021*

Ronald Thompson

*Spring 2021 - Present*

• *MedCrypt Cybersecurity Research Fellowship, 2023*

James Mattei

*Spring 2021 - Present*

Sarah Radway (committee member, led by Susan Landau)

*Fall 2021 - Summer 2023*

• *Tufts School of Engineering Outstanding Graduate Contributor to Engineering Education Award, 2023*

• *Tufts Computer Science Department Loevner Fellowship, 2023*

### **Masters**

Samantha Katcher

*Fall 2021 - Present*

Pavel Nabutovsky

*Fall 2023 - Present*

Ben Altschuler

*Fall 2023 - Present*

Nickolas Gravel

*Fall 2022 - Summer 2023*

### **Undergraduate**

Andy Lin

*Fall 2024 - Present*

Suvi Lama

*Summer 2024 - Present*

Lisa Dang

*Spring 2024 - Present*

Matthew Soto

*Spring 2024 - Present*

Cordell Burton

*Fall 2023 - Present*

Luke Boshar

*Fall 2023 - Present*

Perucy Mussiba

*Summer 2023 - Present*

Cordelia Ludden

*Spring 2023 - Present*

• *CRA Outstanding Undergraduate Research Award Finalist, 2025*

• *Karno Dean's Award for Academic Excellence and Leadership, 2024*

|  |                                  |
|--|----------------------------------|
| Katherine Quintanilla  | <i>Summer 2022 - Present</i>     |
| • <i>CRA Outstanding Undergraduate Research Award Honorable Mention, 2024 and 2025</i> |                                  |
| • <i>The James Schmolze Award for Excellence in Computer Science, 2025</i>             |                                  |
| Yaejie Kwon  | <i>Summer 2024</i>               |
| Ellis Hale   | <i>Summer 2024</i>               |
| Esam Nesru   | <i>Summer 2024</i>               |
| Matthew Ung  | <i>Spring 2024</i>               |
| • <i>Tufts Presidential Award for Civic Life, 2024</i>                                 |                                  |
| Nathaniel Kennedy  | <i>Spring 2024</i>               |
| Jasper Geer  | <i>Fall 2023 - Spring 2024</i>   |
| Christopher Pellegrini   | <i>Summer 2023 - Spring 2024</i> |
| Sam Cohen  | <i>Summer 2023 - Spring 2024</i> |
| Caroline Yang  | <i>Fall 2022 - Fall 2023</i>     |
| Bisrat Yismashewa  | <i>Spring 2023 - Fall 2023</i>   |
| Yuan Han   | <i>Fall 2023</i>                 |
| Debohra Dagnachew  | <i>Summer 2023</i>               |
| Madeline McLaughlin  | <i>Spring 2021 - Spring 2023</i> |
| • <i>Tufts School of Engineering de Florez Prize in Human Engineering, 2023</i>        |                                  |
| • <i>The David Krumme Award for Experimental Computer Science, 2023</i>                |                                  |
| Santana Koring'ura   | <i>Summer 2021 - Fall 2022</i>   |
| Yijun Liu  | <i>Summer 2022</i>               |
| Gustavo Curioso  | <i>Spring 2021 - Spring 2022</i> |
| Liana Wang   | <i>Spring 2021</i>               |
| Grant Versfeld   | <i>Spring 2021</i>               |
| Mary Punzalan (UMD)  | <i>Fall 2019 - 2021</i>          |
| Eric Zhang (UMD)   | <i>Summer 2019 - 2021</i>        |
| Desiree Abrokwa (UMD)  | <i>Summer 2018 - 2021</i>        |
| Seth Rabin (UMD)   | <i>Fall 2017 - Spring 2019</i>   |
| Matthew Hou (UMD)  | <i>Spring 2018 - Spring 2019</i> |
| Jeremy Hu (UMD)  | <i>Spring 2017</i>               |
| Daniel Chen (UMD)  | <i>Summer 2016 - Spring 2017</i> |

## *Academic Advising*

*Masters* - 4 CSPP students

*Undergraduate* - 20 students

## Academic Service

### *Conference Organizing*

**USENIX Security Symposium**, Program Committee Vice Chair (2025)

**Symposium on Usable Privacy and Security**, Workshops and Tutorials Co-chair (2023-2024)

**Workshop on Security Information Workers**, Organizing Committee (2018-2020,2024)

**Symposium on Usable Privacy and Security**, Mentoring Co-chair (2020)

### *PC Membership*

**IEEE Symposium on Security and Privacy** (2023-2025)

**Symposium on Usable Privacy and Security** (2022)

**Privacy Enhancing Technologies Symposium** (2021-2022)

**USENIX Security Symposium** (2021-2025) - **Outstanding review recognition** (2023, 2024)



**ACM Conference on Computer and Communications Security (2021) - Outstanding review recognition (2021)**  
**Human Factors and Ergonomics Society (2019-2020)**  
**Workshop on Security Information Workers (2018-2020, 2024)**  
**Workshop on Cybersecurity Experimentation and Test (2019)**  
**ACM Conference on Human Factors in Computing Systems (2017-2024) - Outstanding review recognition** in 2018, 2021, 2023, and 2024.

### *Working Groups*

**Dagstuhl Seminar 23181 - Empirical Evaluation of Secure Development Processes (2023)**  
**Dagstuhl Seminar 19231 - Empirical Evaluation of Secure Development Processes (2019)**

### *Department Service*

**School of Engineering Information Technology Committee, Member (2023,2024)**  
**Alumni Relations Committee, Member (2024)**  
**Tenure Track Faculty Search Committee, Member (2021,2023-2024)**  
**Graduate Student Visit Day Coordinating Committee, Member (2022)**  
**Admissions Committee, Member (2020-2021)**  
**CSPP Governance Committee, Member (2020-2021)**

### *DEIJ Efforts*

**Tufts DIAMONDS Program (2023-2024)**  
• Mentored undergraduate Summer intern from underrepresented group in CS  
**Tufts Visiting and Early Scholars Program (2022-2024)**  
• Mentored undergraduate Summer intern from underrepresented group in CS  
**CRA Distributed Research Experiences for Undergraduates (2022)**  
• Mentored undergraduate Summer intern from underrepresented group in CS  
**Tufts Pedagogical Partnership Program (2022)**  
• Worked with an undergraduate student to develop strategies for enhancing classroom student engagement, reflect on equity, and improve learning outcomes.  
**#ShareTheMicInCyber Ally (2022)**  
• Partnered with Black cybersecurity professional to raise awareness for the work done by Black practitioners in cybersecurity  
**NSF/NSA GenCyber Career Panel (2022)**  
• Raised awareness for cybersecurity careers among K-12 students  
**SOUPS Mentoring (2020-2024)**  
• Provided research and career guidance to PhD and undergraduate students from underrepresented group in CS at usable security conference  
**GREPSEC Mentoring (2022-2023)**  
• Provided research and career guidance to PhD and undergraduate students from underrepresented group in CS at security conference

### **Employment**

|   |                            |
|---|----------------------------|
| <b>Tufts University</b><br>Assistant Professor      | <i>Jan 2021 - Present</i>  |
| <b>University of Maryland</b><br>Research Assistant | <i>May 2016 - Dec 2020</i> |
| <b>Georgetown University</b><br>Adjunct Professor   | <i>Aug 2017 - Dec 2017</i> |

**National Security Agency**  
Mobile Technologies Lead

*Sep 2014 – Apr 2016*

**U.S. Air Force**  
Cyber Operations Officer

*May 2012 – May 2016*

**National Security Agency**  
Senior Watch Officer

*Jul 2013- Sep 2014*