

Faezeh Kalantari

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EDUCATION

Arizona State University (ASU)

Arizona, US

- Ph.D. Candidate, Computer Science (GPA: 4.0) Expected graduation: 2023
Active Research Topic: Enhancing web browsers' security and privacy.
Advisor: Dr. Adam Doupé

Amirkabir University of Technology (AUT)

Tehran, Iran

- M.Sc., IT Engineering (GPA: 3.4) February 2016
Advisor: Dr. Hamidreza Shahriari
- B.Sc., Computer Engineering (GPA: 3.5) September 2013
Advisor: Dr. Hamidreza Zarandi

PUBLICATIONS

- **Faezeh Kalantari**, Mehrnoosh Zaeifi, Tiffani Bao, Ruoyu Wang, Yan Shoshitaishvili, and Adam Doupé, “**Context-Auditor: Context-sensitive Content Injection Mitigation**” in 25th RAID Symposium, Limassol, Cyprus, October 2022.
- Soroush Karami*, **Faezeh Kalantari***, Mehrnoosh Zaeifi, Xavier Jeremy Maso, Erik Trickel, Panagiotis Iliia, Yan Shoshitaishvili, Adam Doupé, and Jason Polakis, “**Unleash the Simulacrum: Shifting Browser Realities for Robust Extension-Fingerprinting Prevention**” in 31st USENIX Security Symposium, Boston, MA, August 2022 (* co-first authors).
- Erik Trickel, Francesco Disperati, Eric Gustafson, **Faezeh Kalantari**, Mike Mabey, Naveen Tiwari, Yeganeh Safaei, Adam Doupé, and Giovanni Vigna, “**Shell We Play A Game? CTF-as-a-service for Security Education**” in Proceedings of the USENIX Workshop on Advances in Security Education (ASE), Vancouver, CA, August 2017.

PROJECTS

Joint project with PayPal.

June 2021 until now

Detecting spoofed browser fingerprints.

Collaboration with a fellow Ph.D. student and PayPal.

January 2021 until now

Modeling the economics of impersonation attack via stolen identities in financial ecosystem.

Joint project with UIC on browser privacy.

April 2020 – June 2021

Developing a Chrome extension as a measure against browser extension fingerprinting. Using *JavaScript*, and *Python* for the implementation and experimentation. We have an accepted paper for this project in *USENIX Security Symposium*, and an open-source extension to protect privacy of Chrome browser.

Detecting content injections in web applications.

July 2017 – March 2020

Developing a tool called *Context-Auditor* to detect a broad spectrum of injections in web applications. This tool is a *syntax analysis* tool for *HTML*, *CSS*, *JavaScript* and *Bash scripts*. We used Python for the implementation and experimentation.

Development team of UCSB iCTF competition.

October 2016 – March 2017

Helping implement a cloud-based version of the International Capture the Flag (iCTF) competition, allowing educators to more easily host their own CTF competitions. Used *Ansible*, *Vagrant*, and *Amazon EC2* for implementation and deployment.

HONORS

- Achievement of SCAI Doctoral Fellowship (for excellent research progress and academic work).
Arizona State University, School of Computing and Augmented Intelligence *March, 2022*
- Session-chair and a member of review committee in **GHC** security track. *October 2019*
- Member of **IEEE Security and Privacy** Student Program Committee. *December 2018*
- Web administrator for **ACM CCS Workshop on Forming an Ecosystem Around Software Transformation**.
October 2018
- Achievement of “Security ’18 Diversity Grants” for **USENIX** Security Symposium. *August 2018*
- Achievement of “CyberW travel grant” to attend **ACM CCS** conference. *October 2017*
- **CODASPY** conference reviewer and organization volunteer. *October 2017*
- Honorary Admission for Graduate Study, Accepted as a Talented student for graduate studies in AUT without participating in the University Entrance Exam. *August 2013*

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, HTML, CSS, C, C++, PHP

Database: MySQL, Oracle

Tools: Kali Linux tools, Wireshark, Burpsuit, Ironwasp

TEACHING EXPERIENCE

- Course instructor, CSE 365 Information Assurance. *ASU, Summer 2020*
- Teaching assistant, CSE 365 Information Assurance. *ASU, Fall 2017*
- Teaching assistant, Object-Oriented Programming (in Java). *ASU, Spring 2017*
- Teaching assistant, Discrete Mathematics. *AUT, Spring 2015*
- Lab Instructor, Computer Architecture. *AUT, February 2014- May 2016*