

EDUCATION	Ph.D. in Computer Science <i>Dartmouth College</i> <ul style="list-style-type: none">• Advisor: Dr. David Kotz• Research area: Security and Privacy in the Lifecycle of IoT for Consumer Environments	September 2022-June 2027(<i>expected</i>) Hanover, NH, USA
	B.S. in Physics & Computer Science <i>University of Florida</i> <ul style="list-style-type: none">• Graduated Cum Laude• Selected for Honors Program	August 2018-May 2022 Gainesville, FL, USA
INDUSTRY EXPERIENCE	Product Development Engineer Intern <i>Intel Corporation</i> <ul style="list-style-type: none">• Designed, developed, and debugged sort test programs for server products.• Tested, validated, modified, and redesigned circuits to guarantee component margin to specification.• Analyzed and evaluated component specification versus performance to ensure optimal match of component requirements with production equipment capability.	January 2022-May 2022 Santa Clara, CA, USA
RESEARCH EXPERIENCE	Graduate Research Assistant <i>Dartmouth College</i> <ul style="list-style-type: none">• Maintain a C, C++, and Python codebase for a harmonic radar controller, ensuring optimal performance and reliability for various research applications.• Design and implement experiments and circuit prototypes for novel applications of harmonic radars in IoT security, focusing on advancing research and practical use cases.• Develop comprehensive research plans targeting conference and journal publications while actively reviewing and discussing relevant literature on IoT security.	January 2023-Present Hanover, NH, USA
	Undergraduate Research Assistant <i>University of Florida</i> <ul style="list-style-type: none">• Designed and developed experiments to test theoretical frameworks on EM side channel disassembly.• Collected, processed, and analyzed EM traces using statistical and machine learning models.• Developed research plans leading to the successful completion of project deliverables (publications, presentations, etc.).	June 2021-May 2022 Gainesville, FL, USA
PUBLICATIONS	<ol style="list-style-type: none">1. Cesar Arguello, Beatrice Perez, Timothy J. Pierson, and David Kotz. Detecting Battery Cells with Harmonic Radar. <i>Proceedings of the ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec)</i>, 2024.2. Timothy J. Pierson, Cesar Arguello, Beatrice Perez, Wondimu Zegeye, Kevin Kornegay, Carl Gunter, and David Kotz. We need a “building inspector for IoT” when smart homes are sold. <i>IEEE Security & Privacy</i>, 2024.3. Beatrice Perez, Cesar Arguello, Timothy J. Pierson, Gregory Mazzaro, and David Kotz. <i>Proceedings of the IEEE Military Communications Conference (MILCOM)</i>, 2023.4. Cesar Arguello, Hunter Searle, Sara Rampazzi, Kevin Butler. [Poster]: A practical methodology for ML-Based EM Side Channel Disassemblers. <i>Proceedings of the 2022 Poster Session of the 7th IEEE European Symposium on Security and Privacy</i>, 2022.	

TEACHING
EXPERIENCE

Graduate Teaching Assistant

Dartmouth College

CS50 - Software Design & Implementation

September 2022-January 2023

Hanover, NH, USA

- Developed and maintained automated grading scripts using Bash and Python to evaluate student assignments.
- Conducted in-depth code reviews for programming projects, providing constructive feedback to enhance code quality, efficiency, and adherence to best practices.
- Held office hours to provide one-on-one mentorship to students on course material and programming projects.

Undergraduate Teaching Assistant

University of Florida

CDA3101 - Introduction to Computer Organization

January 2021-May 2021

Gainesville, FL, USA

- Assisted student achieved proposed academic goals by leading discussions on lecture material.
- Supported instructors by managing the evaluation of course assignments and providing detailed feedback to students.
- Held office hours to review course material, answer general questions, and provide some assistance on assignments.

SKILLS

Languages: English, Spanish.

Programming: Python, C, C++, LaTeX, x86

Frameworks: PyTorch

Software: Microsoft Suite, Git, GDB, Wireshark

Web Skills: HTML5, CSS