

EDUCATION	<b>Ph.D. in Computer Science</b> <i>Dartmouth College</i> <ul style="list-style-type: none"><li>• Advisor: Dr. David Kotz</li><li>• Research area: Security and Privacy in the Lifecycle of IoT for Consumer Environments</li></ul>	September 2022-June 2027( <i>expected</i> ) Hanover, NH, USA
	<b>B.S. in Physics &amp; Computer Science</b> <i>University of Florida</i> <ul style="list-style-type: none"><li>• Graduated Cum Laude</li><li>• Selected for Honors Program</li></ul>	August 2018-May 2022 Gainesville, FL, USA
INDUSTRY EXPERIENCE	<b>Product Development Engineer Intern</b> <i>Intel Corporation</i> <ul style="list-style-type: none"><li>• Designed, developed, and debugged sort test programs for server products.</li><li>• Tested, validated, modified, and redesigned circuits to guarantee component margin to specification.</li><li>• Analyzed and evaluated component specification versus performance to ensure optimal match of component requirements with production equipment capability.</li></ul>	January 2022-May 2022 Santa Clara, CA, USA
RESEARCH EXPERIENCE	<b>Graduate Research Assistant</b> <i>Dartmouth College</i> <ul style="list-style-type: none"><li>• Maintain a C, C++, and Python codebase for a harmonic radar controller, ensuring optimal performance and reliability for various research applications.</li><li>• Design and implement experiments and circuit prototypes for novel applications of harmonic radars in IoT security, focusing on advancing research and practical use cases.</li><li>• Develop comprehensive research plans targeting conference and journal publications while actively reviewing and discussing relevant literature on IoT security.</li></ul>	January 2023-Present Hanover, NH, USA
	<b>Undergraduate Research Assistant</b> <i>University of Florida</i> <ul style="list-style-type: none"><li>• Designed and developed experiments to test theoretical frameworks on EM side channel disassembly.</li><li>• Collected, processed, and analyzed EM traces using statistical and machine learning models.</li><li>• Developed research plans leading to the successful completion of project deliverables (publications, presentations, etc.).</li></ul>	June 2021-May 2022 Gainesville, FL, USA
PUBLICATIONS	<ol style="list-style-type: none"><li>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.</li><li>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 &amp; Privacy</i>, 2024.</li><li>3. Beatrice Perez, Cesar Arguello, Timothy J. Pierson, Gregory Mazzaro, and David Kotz. <i>Proceedings of the IEEE Military Communications Conference (MILCOM)</i>, 2023.</li><li>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.</li></ol>	

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