# Tamara Silbergleit Lehman

ECOT 353	
Boulder, CO 80309	tamara.lehman@colorado.edu
Research In	terests
– Computer architecture, datacenter architecture	
– Cache and memory systems architecture	
– Security, hardware support for security, safe execution	ion environment, secure memory.
– Democracy and technology, elections security	
Educati	on
PhD - Computer Engineering	2013 - 2019
Duke University, Durham, NC	
Advisers: Benjamin C. Lee and Andrew Hilton	
Thesis Title: Design Strategies for Efficient and Se Defended March 2019	ecure Memory.
Master of Engineering - Computer Engineering	g December 2013
Duke University, Durham, NC GPA: 3.8 / 4.0	
Bachelor of Science - Industrial Engineering	December 2007
Minor in Business Administration	
University of Florida, Gainesville, FL	
GPA: 3.6 / 4.0, Magna Cum Laude	
Professional E	xperience
Assistant Professor	2019-Present
Electrical, Computer and Energy Engineering, Uni	versity of Colorado Boulder
Courtesy appointment in the department of Compu	
Currently advising 5 PhD. Students and 2 Undergr	
Conduct and lead research on the intersection of c	
rounding democracy and technology. Develop and teach o	courses in computer engineering.
Visiting Professor	November 2024
Facultad de Ciencias Exactas, Ciencia de la Comp	
Graduate Technical Security Intern	Summer $2015$ and $2016$
Security and Privacy Research, Intel Labs, Hillsbor	ro, OR
Research development, studies with a cycle accurat	te simulator.
Software Engineer Intern	Summer 2013
Software Development Unit, Cisco Systems. Resear	rch Triangle Park, NC
Software testing, configuration automation develop	oment, virtualization technologies.
Manager Domestic Postage Optimization	2008 - 2012
Product Management, DHL Global Mail. Weston,	
Strategic decision making, data analysis and datab	

### **Publications**

(Note: Students whose names are in italics are main advisees)

- 1. A Midsummer Night's Tree: Efficient and High Performance Secure SCM Samuel Thomas, Kidus Workneh, Jac McCarty, Joseph Izraelevitz, Tamara Silbergleit Lehman and R. Iris Bahar International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS), 12% Acceptance Rate April 2024
- 2. Baobab Merkle Tree: Memoized Counters for Efficient Secure Memory Samuel Thomas, Kidus Workneh, Ange-Thierry Ishimwe, Zachary McKevitt, Phaedra Curlin, Joseph Izraelevitz, R. Iris Bahar and Tamara Silbergleit Lehman Computer Architecture Letters (CAL), 20% Acceptance Rate March 2024
- 3. SpecCheck: A Tool for Systematic Identification of Vulnerable Transient Execution in gem5

Zachary McKevitt, Ashutosh Trivedi, Tamara Silbergleit Lehman International Conference on Parallel Architectures and Compilation Techniques (PACT), 27% Acceptance Rate October 2023

4. Do Twitter Users Change Their Behavior after Exposure to Misinformation? An Indepth Analysis

Yichen Wang, Richard Han, Tamara Silbergleit Lehman, Qin Lv, Shivakant Mishra Social Network Analysis and Mining (SNAM), 30% Acceptance Rate November 2022 Springer Journal

- 5. Eliminating Micro-Architectural Side-Channel Attacks using Near Memory Processing Casey Nelson, Joseph Izraelevitz, R. Iris Bahar, Tamara Silbergleit Lehman IEEE International Symposium on Secure and Private Execution Environment Design (SEED), 70% September 2022 Acceptance Rate
- 6. Acuerdo: Fast Atomic Broadcast over RDMA Joseph Izraelevitz, Gaukas Wang, Rhett Hanscom, Kayli Silvers, Tamara Silbergleit Lehman, Gregory Chockler, Alexey Gotsman International Conference on Parallel Processing (ICPP), 32% Acceptance Rate September 2022
- 7. Understanding How Readers Determine the Legitimacy of Online Medical News Articles in the Era of Fake News

Srihaasa Pidikiti, Shuo Zhang, Richard Han, Tamara Silbergleit Lehman, Qin Lv, Shivakant Mishra Disease Control Through Social Network Surveillance Springer Book Chapter May 2022

- 8. Analyzing Behavioral Changes of Twitter Users After Exposure to Misinformation Yichen Wang, Richard Han, Tamara Silbergleit Lehman, Qin Lv, Shivakant Mishra Foundations of Open Source Intelligence and Security Informatics (FOSINT-SI) November 2021
- 9. A New Foe in GPUs: Power Side-Channel Attacks on Neural Network Hyeran Jeon, Nima Karimian, Tamara Silbergleit Lehman International Symposium on Quality Electronic Design (ISQED) April 2021
- 10. Analyzing Twitter Users' Behavior Before and After contact by Russia's Internet Research Agency

Upasana Dutta, Rhett Hanscom, Jason Shuo Zhang, Richard Han, Tamara Silbergleit Lehman, Qin Lv, Shivakant Mishra

#### ACM Conference on Computer-Supported Cooperative Work and Social Computing (CSCW), 24% Acceptance Rate October 2021

11. Understanding How Readers Determine the Legitimacy of Online News Articles in the Era of Fake News

Srihaasa Pidikiti, Shuo Zhang, Richard Han, **Tamara Silbergleit Lehman**, Qin Lv, Shivakant Mishra Foundations of Open Source Intelligence and Security Informatics (FOSINT-SI) December 2020

 Design Strategies for Efficient and Secure Memory Tamara Silbergleit Lehman PhD. Thesis Duke University, Durham, NC.

#### 13. MAPS: Understanding Metadata Access Patterns in Secure Memory Tamara Silbergleit Lehman, Andrew D. Hilton and Benjamin C. Lee IEEE International Symposium on Performance Analysis of Systems and Software (ISPASS).

Belfast, Northern Ireland. Best Paper Award Ap

#### 14. PoisonIvy: Safe Speculation for Secure Memory

**Tamara Silbergleit Lehman**, Andrew D. Hilton and Benjamin C. Lee 49th International Symposium on Microarchitecture (MICRO). Taipei, Taiwan. *IEEE Micro Top Pick Honorable Mention* 

#### Patents

Cryptographic Cache Lines for A Trusted Execution Environment February 2018 Siddhartha Chhabra, Francis X. McKeen, Carlos V. Rozas, Saeedeh Komijani and Tamara Silbergleit Lehman United States Patent 9,904,805

### Teaching Experience

ECEN2360 Programming of Digital Systems - University of Colorado Boulder	Spring $2025$
Instructor of Record, remotely and in person	
Developing the course, instructing, grading, guiding discussions.	
gem5 Bootcamp - Universidad de Buenos Aires (UBA)	November 2024
Instructor of Record along with Prof. Jason Lowe-Power (UC Davis)	
Developing the course, instructing.	
ECEN5593 Advanced Computer Architecture - University of Colorado Boulder	Spring 2021-2025
Instructor of Record, remotely and in person	
Developing the course, instructing, grading, guiding discussions.	
Average Instructor FCQ Scores: 4.3/5.0	
ECEN3593 Computer Organization - University of Colorado Boulder	Fall 2020-2024
Instructor of Record, remotely and in person	
Instructing, grading, guiding discussions.	

Average Instructor FCQ Scores: 4.5/5.0

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May 2019

April 2018

October 2016

ECEN1100 Exploring ECE - University of Colorado Boulder Instructor of Record, in person Seminar organization, grading, guiding discussions. Average Instructor FCQ Scores: 4.3/5.0	Fall 2023
<b>ECEN5793 Secure Computer Architectures</b> - University of Colorado Boulder Instructor of Record, in person Developing the course, instructing, grading, guiding discussions. Designed the course	Fall 2019, 2022 rse.
Average Instructor FCQ Score: 4.5/6.0	
ECE553 Compiler Construction - Duke University Teaching assistant Grading and office hours. Overall Evaluation Score: 4.5/5.0 and 4.7/5.0	Spring 2015,2017
ECE552 Advanced Computer Architecture - Duke University Teaching assistant Grading and office hours. Overall Evaluation Score: 3.5/5.0	Fall 2016
Invited Talks and Academic Presentations	
1. Secure, Efficient and High Performance Computing: A Computer Architecture Perspective Tamara Silbergleit Lehman	January 2025
Invited talk at the Graduate Seminar for Electrical Engineering and Computer Science of California Merced	ce at the University
2. Secure, Efficient and High Performance Computing: A Computer Architecture Perspective Tamara Silbergleit Lehman	October 2024
Invited talk at the Computer Science Colloquium at the University of California Sa3. Freshman Seminar: Computer Engineering Tamara Silbergleit Lehman University of Colorado Boulder, guest Lecture. Online.November 2020, October 2	
4. Secure 5G communications Tamara Silbergleit Lehman Qualcomm Colorado office. Longmont, Colorado	August 2024
5. Secure 5G communications and metrics Tamara Silbergleit Lehman Vail Computer Elements Workshop. Vail, Colorado	June 2024
<ul> <li>6. Secure, Efficient and High Performance Computing:</li> <li>A Computer Architecture Perspective</li> <li>Tamara Silbergleit Lehman</li> <li>Invited talk at the Computer Science Colloquium at the University of Colorado Bo</li> </ul>	January 2024 oulder
7. Keynote: Secure, Efficient and High Performance Computing: A Computer Architecture Perspective Tamara Silbergleit Lehman Opening Keynote Speaker at International Conference on Engineering Applications of (EANN). Leon, Spain	June 2023 of Neural Networks

8.	Securing 5G Communications with GHOST Tamara Silbergleit Lehman and Keith Gremban Invited seminar at The Federal Communications Commission (FCC)	August 2023
9.	Security as a First-Class Design Constraint Tamara Silbergleit Lehman Invited seminar at Colorado School of Mines.	October 2022
10.	My Path to Becoming a Computer Engineer Tamara Silbergleit Lehman Invited talk at SciGirls Code camp.	August 2021
11.	<b>Design Strategies for Efficient and Secure Memory, and Beyond</b> Tamara Silbergleit Lehman Invited talk at TCP Seminar. Online.	April 2021
12.	<b>Design Strategies for Efficient and Secure Memory</b> Tamara Silbergleit Lehman Invited talk at AMD Research Tech Talk Seminar. Online.	November 2020
13.	Data Science Companion Group: Investigating IRA Behavior in Twit Tamara Silbergleit Lehman University of Colorado Boulder, guest Lecture. Online.	ter November 2020
14.	Misinformation on Social Media Tamara Silbergleit Lehman and Shivakant Mishra Colorado Matter, Colorado Public Radio (CPR). Radio Interview.	October 2020
15.	The Influence of Russian Social Media Bots Tamara Silbergleit Lehman and Shivakant Mishra Colorado Matter, Colorado Public Radio (CPR). Radio Interview.	September 2020
16.	<b>Preparing Future Engineering Faculty Panel</b> Tamara Silbergleit Lehman Duke University, invited panelist. Online	September 2020
17.	Secure Memory Systems Presentation for the ECEE Industrial Advisory Board Tamara Silbergleit Lehman University of Colorado Boulder. Boulder, CO.	October 2019
18.	<b>MAPS: Understanding Metadata Access Patterns in Secure Memory</b> Tamara Silbergleit Lehman Presentation at ISPASS 2018. Belfast, Northern Ireland.	April 2018
19.	PoisonIvy: Safe Speculation for Secure Memory Tamara Silbergleit Lehman Presentation at SRC Techcon 2017. Austin, TX. Best In Session Award	September 2017
20.	<b>PoisonIvy: Safe Speculation for Secure Memory</b> Tamara Silbergleit Lehman Paper Presentation at MICRO 2016. Taipei, Taiwan.	October 2016
21.	Datacenter Simulation Methodologies TutorialDecentTamara Silbergleit Lehman, Qiuyun Wang, Seyed Majid Zahedi and Benjamin OPresentation at 47th International Symposium on Microarchitecture (MICRO).Presentation at 42nd International Symposium on Computer Architecture (ISCA)	Cambridge, UK.
22.	Secure Memory Caching Strategies Tamara Silbergleit Lehman Poster at CRA-W Grad Cohort Workshop. San Francisco, CA.	April 2015

# Workshops and Posters

1.	Extending RISC-V Keystone to Include Efficient Secure Memory Zach Moolman and Tamara Silbergleit Lehman Workshop on Computer Architecture Research on RISC-V (CARRV) Austin, TX	November 2024
2.	<b>Evaluating Rowhammer Impact on Neural Network Accuracy</b> Ishita Mehta PACT Student Research Competition (SRC) - 2nd Place Long Beach, CA	November 2024
3.	An ASIC Implementation of an Open-Source AES Engine Phaedra Curlin, Calvin Chan and Tamara Silbergleit Lehman Young Fellows of Design and Automation Conference (DAC) San Francisco, CA	July 2023
4.	<b>SMAD: Efficiently Defending Against Transient Execution Attacks</b> Ange Thierry Ishimwe and <b>Tamara Silbergleit Lehman</b> Young Architect at ASPLOS Vancouver, Canada	March 2023
5.	<b>GPU Rowhammer Impact on Deep Learning Models</b> Alexander Juenemann, Tamara Silbergleit Lehman Workshop on Hardware and Architectural Support for Security and Privacy Chicago, IL	October 2022
6.	<b>An ASIC Implementation of an Open-Source AES Engine</b> Phaedra Curlin, Calvin Chan, Andrew Fisher and Tamara Silbergleit Lehman Career Workshop for Inclusion and Diversity in Computer Architecture Chicago, IL	October 2022
7.	Zero Trust Architecture for Radio Astronomy & Research Organizations Sylvia Llosa, Georgiana Weihe, Eloise Morris, Kevin Gifford, Tamara Lehman and St SecDev Atlanta, GA	October 2022 efan Tschimben
8.	Security as a First-Class Design Constraint in Computer Architecture Tamara Silbergleit Lehman DARPA Forward, Risers Fort Collins, CO	October 2022
9.	SecureRPi: A Comparison Study of HW and SW Security on IOT Devices Sylvia Llosa, Georgiana Weihe, Stefan Tschimben, Eloise Morris, Kevin Gifford and Ta Lehman AIAA Boulder, CO	
10.	VulnerabiliTree: A Taxonomy of Hardware and Software Computer Attack Hacking Defense Sylvia Llosa, Ange-Thierry Ishimwe, Tamara Silbergleit Lehman Workshop on Hardware and Architectural Support for Security and Privacy Virtual Workshop	s for Heuristic October 2021
11.	Automatic Transient Execution Attack Detection Zack McKevitt, Ashutosh Trivedi, Tamara Silbergleit Lehman Workshop on Hardware and Architectural Support for Security and Privacy Virtual Workshop	October 2021
12.	VulnerabiliTree: A Taxonomy of Hardware and Software Computer Attack Hacking Defense	s for Heuristic October 2021

Sylvia Llosa, Ange-Thierry Ishimwe, Tamara Silbergleit Lehman Career Workshop for Inclusion and Diversity in Computer Architecture Virtual Workshop

13. Investigating the Potential for Near Data Processing to Reduce Secure Memory Overheads January 2021 Casey Nelson, Tamara Silbergleit Lehman and R. Iris Bahar

Boston Area Architecture Workshop (BARC). Virtual.

- 14. **Partial Recovery of Secure Non-Volatile Main Memories** January 2021 Samuel Thomas, Tamara Silbergleit Lehman, Joseph Izraelevitz, and R. Iris Bahar Boston Area Architecture Workshop (BARC). Virtual.
- 15. Classifying and Mitigating Side-Channel Vulnerabilities between VMs September 2019 Jinpeng Miao, Dwight Brown, Abdulrahman Alaraj, Tamara Silbergleit Lehman and Daniel Massey Poster at ACSAC 2019. San Juan, Puerto Rico.

### Grants

- Collaborative Research: SaTC 2.0: RES: Efficient Secure Memory for Heterogeneous Systems June 2025 May 2028
   Principal Investigator with Co-Principal Investigator R. Iris Bahar (Colorado School of Mines) National Science Foundation
   Pending Total Award (Lehman's Portion): \$877,410 (\$456,189)
   ECEE, University of Colorado Boulder
- Establishing a new field of Computer Engineering Economics
   Co-Principal Investigator with Alessandro Peri
   CU Boulder RIO SEED Funding
   Pending Total Award (Lehman's Portion): \$58,040 (\$50,342)
   ECEE, University of Colorado Boulder
- 3. CAREER: Security as a First-Class Design Constraint for Computer Architecture Jul 2025 Jun 2030 Sole Principal Investigator. National Science Foundation Pending Total Award: \$788,584 ECEE, University of Colorado Boulder
- 4. Collaborative Research: SHF: Small: Towards Robust Deep Learning Computing on GPUs REU Supplement August 2024 - July 2025 Sole Principal Investigator National Science Foundation Total Award: \$20,000 ECEE, University of Colorado Boulder
- Conv. Accel.: 5G Hidden Operations through Securing Traffic (GHOST) Phase 2 Aug 2023 Jul 2025 Co-Principal investigator with Keith Gremban, Alexandra Siegel and Eric Keller from University of Colorado Boulder, and Salvador D'Itri from Federated Wireless. National Science Foundation Total Award (Lehman's portion): \$4,983,234 (\$275,000) ECEE, University of Colorado Boulder
- 6. Travel: NSF Student Travel Grant for 2023 Intnl Symp. on Comp. Archi. (ISCA) Jun 2023 May 2024
  Sole Principal Investigator.
  National Science Foundation
  Total Award: \$25,000
  ECEE, University of Colorado Boulder

7.	CNS Core: Small: Transparent Network Acceleration (TNA) Co-Principal investigator with Eric Keller. National Science Foundation Total Award (Lehman's portion): \$599,928 (\$300,000) ECEE, University of Colorado Boulder	May 2023 - Apr 2025	
8.	<ul> <li>Standard Security Metric Definition for Hardware Design</li> <li>Sole Principal investigator.</li> <li>Office of Naval Research</li> <li>Total Award: \$240,785</li> <li>ECEE, University of Colorado Boulder</li> </ul>	Dec 2022 - Nov 2024	
9.	Convergence Accelerator Track G: 5G Hidden Operations through Securing 2022 - Jul 2023 Co-Principal investigator with Keith Gremban, Alexandra Siegel and Eric F Colorado Boulder, and Salvador D'Itri from Federated Wireless. National Science Foundation		
	Total Award (Lehman's portion): \$749,186 (\$75,000) ECEE, University of Colorado Boulder		
10.	Open Source Cryptographic Hardware Sole Principal Investigator. Sandia Labs Total Award: \$50,000 ECEE, University of Colorado Boulder	Jan 2022 - Sep 2022	
11.	Collaborative Research: SHF: Small: Towards Robust Deep Learning Con Supplement Sole Principal Investigator National Science Foundation Total Award: \$16,000 ECEE, University of Colorado Boulder	nputing on GPUs - REU August 2022 - July 2023	
12.	Collaborative Research: SHF: Small: Towards Robust Deep Learning Compu Co-Principal investigator with Hyeran Jeon (University of California Merced) Jose State University) National Science Foundation, Software and Hardware Foundations Program. Total Award (Lehman's portion): \$511,991 (\$176,000) ECEE, University of Colorado Boulder	and Nima Karimian (San	
13.	<ul> <li>SWIFT: LARGE: Passive and Active Spectrum Sharing (PASS)</li> <li>Co-Principal investigator with Kevin Gifford.</li> <li>National Science Foundation SWIFT Program.</li> <li>Total Award (Lehman's portion): \$1.45M (\$380,000)</li> <li>ECEE, University of Colorado Boulder</li> </ul>	Sep 2020- Aug 2023	
14.	In-Kind Contribution of Equipment Ampere Computing, donated to Tamara Silbergleit Lehman Total Amount: \$32,000 ECEE, University of Colorado Boulder	2021	
	Internal Service		
1.	Faculty Mentor to Assistant Professor Ramin Ayanzadeh University of Colorado Boulder, CS	2024-Present	
2.	School Of Computing Steering Committee University of Colorado Boulder, CS	2024-2025	

3.	ECEE Graduate Committee University of Colorado Boulder, ECEE	2024-2025
4.	<b>ECEE Undergraduate Committee</b> University of Colorado Boulder, ECEE	2024-2025
5.	ECEE Executive Committee University of Colorado Boulder, ECEE	2022-2024
6.	Faculty and Staff Recruitment, Retention and Recognition Committee University of Colorado Boulder, ECEE	2020-2024
7.	Computer Engineering Search Committee University of Colorado Boulder, ECEE	2022-2023
8.	Participated in the Research Impact Fellows Program University of Colorado Boulder, CEAS	2021
9.	College Diversity ECEE Ad-Hoc Search Committee Chair University of Colorado Boulder, ECEE	2021
10.	College Diversity Search Committee University of Colorado Boulder, CEAS	2021
11.	CU/CMU Joint Instructor Search Committee University of Colorado Boulder, ECEE	2021
12.	Faculty Search Oversight Committee University of Colorado Boulder, ECEE	2020-2022
13.	College Level Ad-Hoc Budget Committee University of Colorado Boulder, ECEE	2020
14.	Faculty Search Committee University of Colorado Boulder, ECEE	2019-2020
15.	Curriculum Committee University of Colorado Boulder, ECEE	2019-2020

## **External Service**

1.	<b>Organizing Committee Member</b> 2019-2024 Annual Career Workshop for Incluin Computer Architecture (CWIDCA)	sion and Diversity
2.	<b>Organizing Committee Member, Finance Chair</b> International Symposium on Computer Architecture (ISCA)	2024
3.	Poster Session Judge PACT Student Research Competition (SRC)	2023
4.	<b>Organizing Committee Member, Travel Award Chair</b> International Symposium on Computer Architecture (ISCA)	2023
5.	Program Committee Member Young Architect Workshop (YArch)	2023
6.	Long Term Mentor Computer Architecture Long Term Mentoring Program (CALM)	2022, 2023, 2024
7.	<b>Organizing Committee Member, Finance Chair</b> International Symposium on Computer Architecture (ISCA)	2022
8.	Review Panel National Science Foundation (NSF), Graduate Research Fellows Program (GRFP)	2022

9.	<b>Program Committee Member</b> International Conference on Architectural Support for Programming Languages (ASPLOS)	2022, 2023, 2024, 2025 and Operating Systems
10.	<b>Program Committee Member</b> International Symposium in Computer Architecture (ISCA)	2023
11.	<b>Program Committee Member</b> International Symposium on Microarchitecture (MICRO)	2023
12.	<b>Program Committee Member</b> International Symposium on High Performance Computer Architecture (HPCA	2023, 2024, 2025 4)
13.	<b>Program Committee Member</b> IEEE International Symposium on Secure and Private Execution Environment	2022 t Design (SEED)
14.	Organizing Committee Member, Finance Chair IEEE International Symposium on Secure and Private Execution Environment	2021 t Design (SEED)
15.	External Reviewer International Symposium on Microarchitecture (MICRO)	2021, 2022
16.	External Reviewer International Symposium on Computer Architecture (ISCA)	2020,2021, 2022
17.	<b>Program Committee Member</b> IEEE International On Workload Characterization (IISWC)	2021, 2022
18.	Program Committee Member and Judge MICRO Student Research Competition (SRC)	2021, 2022
19.	<b>Organizing Committee Member, Workshop and Tutorials Co-Chair</b> International Conference on Architectural Support for Programming Languages (ASPLOS)	2021 and Operating Systems
20.	<b>Organizing Committee Member, Publication Chair</b> International Symposium on High Performance Computer Architecture (HPCA	2021,2022 4 <i>)</i>
21.	Review Panel National Science Foundation (NSF), Secure and Trustworthy Cyberspace (SAT	2021, 2022 TC)
22.	<b>Program Committee Member</b> Hardware and Architectural Support for Security and Privacy (HASP)	2020
23.	<b>Program Committee Member</b> International Conference on Computer Design (ICCD) Security Track	2020,2021
24.	Reviewer2018,Computer Architecture Letters (CAL)	2020, 2021, 2022, 2023
25.	External Reviewer International Conference on Embedded Software (EMSOFT)	2019
26.	Vice-PresidentAdditional control of the second	cademic year 2018-2019 elds.
27.	Treasurer and Vice-President       Academic yea         CRA-W Duke University Chapter, Durham, NC       Organize workshops and seminars to promote diversity in computer science and	ar 2015-2016, 2018-2019 d engineering.

# Graduate Research Advising

• Ian Barnaby, Electrical, Computer and Energy Department Doctorate Student	2024-Present
• Zachary Moolman, Electrical, Computer and Energy Department Doctorate Student	2023-Present
• Phaedra Curlin, Electrical, Computer and Energy Department Doctorate Student	2022-Present
• Ange-Thierry Ishimwe, Electrical, Computer and Energy Department Doctorate Student	2020-Present
• Rhett Hanscom, Computer Science Department Doctorate Student	2020-Present
• Samuel Thomas, Brown University Doctorate Student, Defense Committee	2020-2025
Manan Doshi, Computer Science Department     Master student, Independent Study	2024
• Maziyar Nazari, Computer Science Department Defense Committee	2025
• Ayan Chowdhury, Computer Science Master Student, Independent Study and Research Assistant	2024-Present
• Sylvia Llosa, Electrical, Computer and Energy Department Doctorate Student	2021-2023
• Zachary McKevitt, Computer Science Department Master Thesis	2022-2023
• Yichen Wang, Computer Science Department Comprehensive Exam, Defense Committee Member	2021-2022
• Srihaasa Pidikiti, Computer Science Department Master Thesis Defense	2021
• Daniel Trahan, Electrical, Computer and Energy Department Doctorate Student	2020-2021
• Jinpeng Miao, Computer Science Department Doctorate Student	2020-2021
• Claire Savard, Computer Science Department Independent Study, Comprehensive Exam and Defense Committee	2019-2020, 2022.2024
• Marcelo De Abranches, Electrical, Computer and Energy Department Preliminary Exam Committee, Comprehensive exam, Defense Committee Mem	2020, 2022 aber
• Gregory Cusack, Electrical, Computer and Energy Department Preliminary Exam Committee, Comprehensive exam, Defense Committee Mem	2020, 2022
• George Hodgkins, Electrical, Computer and Energy Department Preliminary Exam and Comprehensive Exam Committee	2022,2024
• Jack Wampler, Electrical, Computer and Energy Department Comprehensive exam and Defense Committee Member	2022, 2023

# Undergraduate Research Advising

• Victor Jimenez Rugama, Electrical, Computer and Energy Engineering Department Europe-Colorado Program	2025
• Sean Kadkhodayan, Electrical, Computer and Energy Engineering Department Summer Program for Undergraduate Research (SPUR) and Independent Study	2024-2025
• Suhana Zeutzius, Computer Science Department Discovery Learning Apprenticeship (DLA) Program	2023-2024
• Nicholas Cisne, Electrical, Computer and Energy Engineering Department Discovery Learning Apprenticeship (DLA) Program	2023-2024
• Andrew Johnson, Denver Metro Community College Summer Program for Undergraduate Research (SPUR)	2023
• Yatharth Brahmbhatt, Computer Science Department Summer Program for Undergraduate Research (SPUR)	2023
• Leo Ge, Electrical, Computer and Energy Engineering Department Summer Program for Undergraduate Research (SPUR)	2023
• Adam Richling, Computer Science Department Summer Program for Undergraduate Research (SPUR), Research Assistant	2023-2024
• Samuel McDiarmid-Sterling, Electrical, Computer and Energy Engineering Department Summer Program for Undergraduate Research (SPUR), Research Assistant	2023-2025
• Kasper Seglem, Electrical, Computer and Energy Engineering Department Discovery Learning Apprenticeship (DLA) Program	2022-2023
• Jack Blackburn, Electrical, Computer and Energy Engineering Department Discovery Learning Apprenticeship (DLA) Program	2022-2023
• Alexander Juenemann, Computer Science Department Summer Program for Undergraduate Research (SPUR), Research Assistant	2022-2023
• Tucker Travins, Electrical, Computer and Energy Engineering Department Independent Study, Research Assistant	2022-2023
• Albert Vilardell Barnosell, Electrical, Computer and Energy Engineering Department Europe-Colorado Program	2021-2022
• Pranav Subramanian, Electrical, Computer and Energy Engineering Department Discovery Learning Apprenticeship (DLA) Program	2021-2022
• <i>Reiko Matsuda-Dunn</i> , Electrical, Computer and Energy Engineering Department Independent Study	2021
• Zachary McKevitt, Electrical, Computer and Energy Engineering Department Discovery Learning Apprenticeship (DLA) Program, Senior Thesis	2020-2022
• Ailish Skinner, Computer Science Department Independent Study	2021
• Alex Han-Begler, Computer Science Department Independent Study	2020

### Honors and Awards

• WICArch Early-Career Fellowship	2024
• IEEE Computer Society Technical & Conference Activities Board Rising Star Service Award	2024
• Outstanding Mentor for the Discovery Learning Apprenticeship, University of Colorado Boulde	er 2022
• DARPA Riser, University of Colorado Boulder	2022
• Outstanding Service for Inclusion and Diversity, University of Colorado Boulder	2022
• Outstanding Service in the Department, Duke University	2019
• ISPASS Best Paper Award	2018
• SRC Techcon Best In Session Award	2017
• MICRO Top Picks Honorable Mention	2016
• Charles Rowe Vail Memorial Outstanding Graduate Teaching Award	2015
• Member of the Golden Key International Honor Society 2006	- 2007
• President's Honor Roll	2006