

Research Interests

- Computer architecture, datacenter architecture
- Cache and memory systems architecture
- Security, hardware support for security, safe execution environment, secure memory.

Education

- PhD - Computer Engineering** 2013 - 2019
Duke University, Durham, NC
Advisers: Benjamin C. Lee and Andrew Hilton
Thesis Title: Design Strategies for Efficient and Secure Memory.
Defended March 2019
- Master of Engineering - Computer Engineering** 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

Publications

- MAPS: Understanding Metadata Access Patterns in Secure Memory** April 2018
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
- PoisonIvy: Safe Speculation for Secure Memory** October 2016
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 S. Lehman
United States Patent 9,904,805

Academic Presentations and Posters

- PoisonIvy: Safe Speculation for Secure Memory** September 2017
Tamara Silbergleit Lehman
Presentation at SRC Techcon 2017. Austin, TX.
Best In Session Award

Datacenter Simulation Methodologies Tutorial December 2014, June 2015
Tamara Silbergleit Lehman, Qiuyun Wang, Seyed Majid Zahedi and Benjamin C. Lee
Presentation at 47th International Symposium on Microarchitecture (MICRO). Cambridge, UK.
Presentation at 42nd International Symposium on Computer Architecture (ISCA). Portland, OR.

Secure Memory Caching Strategies April 2015
Tamara Silbergleit Lehman
Poster at CRA-W Grad Cohort Workshop. San Francisco, CA.

Teaching Experience

ECE553 Compiler Construction - Duke University Spring 2015 and 2017
Teaching assistant
Grading and office hours.
Overall Evaluation Score: 4.5/5.0 and 4.7/5.0

ECE552 Advanced Computer Architecture - Duke University Fall 2016
Teaching assistant
Grading and office hours.
Overall Evaluation Score: 3.5/5.0

ECE551 Prog., Data Struct., and Alg. in C++ - Duke University Fall 2014
Teaching assistant
Recitation preparation, exam grading and office hours.
Overall Evaluation Score: 4.7/5.0

ECE496 Engineering Software for Maintainability - Duke University Spring 2014
Teaching assistant
Grading and office hours.
Overall Evaluation Score: 4.0/5.0

CGS2425 Computer Programming for Engineers - University of Florida 2005 - 2007
Teaching assistant
Homework preparation, grading and office hours.

Professional Experience

Assistant Professor 2019 - Present
University of Colorado Boulder.
Boulder, CO

Graduate Technical Security Intern Summer 2015 and 2016
Security and Privacy Research, Intel Labs, Hillsboro, OR
Research development, studies with a cycle accurate simulator.

Software Engineer Intern Summer 2013
Software Development Unit, Cisco Systems. Research Triangle Park, NC
Software testing, configuration automation development, virtualization technologies.

Manager Domestic Postage Optimization 2008 - 2012
Product Management, DHL Global Mail. Weston, FL
Strategic decision making, data analysis and database management.

Community Service

Vice-President

Academic year 2018-2019

GWIS Research Triangle, Durham, NC

Lead and organize events to promote diversity in graduate studies in STEM fields.

Treasurer and Vice-President

Academic year 2015-2016, 2018-2019

CRA-W Duke University Chapter, Durham, NC

Organize workshops and seminars to promote diversity in computer science and engineering.

Technical Skills

Programming Languages: C, C++, SML, JAVA, Assembly Language, VHDL.

Tools and applications: Emacs, GDB, LaTeX, Linux, SVN, Git, Bash, Python, jGraph.

Spoken Languages: English, Spanish.

Honors and Awards

Outstanding Service Award, Duke University	2019
ISPASS Best Paper Award	2018
SRC Techcon Best In Session Award	2017
Charles Rowe Vail Memorial Outstanding Graduate Teaching Award	2015
Member of the Golden Key International Honor Society	2006 - 2007
President's Honor Roll	2006
Dean's List	2005 - 2007
Recipient of the General Engineering Scholarship Award	2006