

Eugene Chou

📞 (510) 685-0614 | 📩 euchou@ucsc.edu | 💬 euugenechou | 💬 euugenechou

Experience

Graduate Student Researcher — Center for Research in Systems and Storage	Sep 2020 - Present
• Research on designing, building, optimizing, and formally verifying crash-consistent secure delete file systems.	
Teaching Assistant, Tutor — Jack Baskin School of Engineering	Sep 2018 - Present
• TA'ed <i>Computer Systems and C Programming</i> (5x) and <i>Principles of Computer System Design</i> (1x).	
• Tutored <i>Computer Systems and C Programming</i> (2x) and <i>Introduction to Operating Systems</i> (1x).	
Quarterly Adjunct Lecturer — Santa Clara University	Mar 2024 - Jun 2024
• Taught <i>Abstract Data Types and Data Structures</i> .	
Graduate Student Intern — Sandia National Laboratories	Jun 2023 - Sep 2023
• Developed libraries for efficient QEMU virtual machine introspection techniques.	

Education

Ph.D. in Computer Science and Engineering — UC Santa Cruz	Sep 2020 - Present
• Advisors: Prof. Darrell Long, Prof. Andi Quinn	
M.S. in Computer Science and Engineering — UC Santa Cruz	Sep 2020 - Jun 2022
• Thesis: "Lethe: It Won't Take Long to Forget"	
B.S. with honors in Computer Science — UC Santa Cruz	Sep 2016 - Jun 2020
• Thesis: "Exploring and Implementing Lempel-Ziv-Based Algorithms"	

Skills

Programming	Rust, C/C++, Python
Areas	File systems, Operating systems, Security, Formal verification
Languages	English, Mandarin, Taiwanese

Selected Publications

Lethe: Secure Deletion by Addition — CHEOPS '23
• A secure delete file system for arbitrary storage media with efficient key management using keyed hash forests.

Selected Projects

GitLab Canvas Utilities — github.com/euugenechou/gitlab-canvas-utils
• Utilities that connect Canvas with GitLab to manage repositories generated from Canvas course rosters.
• Used by courses in UC Santa Cruz's CSE and ECE departments to manage course infrastructure and grading.
Lempel-Ziv Suite — github.com/euugenechou/lempel-ziv-suite
• An exploration of the Lempel-Ziv-based lossless data compression algorithms.
Lethe — github.com/euugenechou/zfs/tree/cheops23-artifact
• The Lethe secure delete file system implemented as an OpenZFS extension.