Sarah Canto Hyatt

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PhD University of California, Santa Barbara, Computer Science

In Progress

MS California State University, Northridge, Computer Science

Dec 2023

BS California State University, Northridge, Computer Science

May 2021

Minor: Mathematics

Publications _

${\bf Mutation\text{-}Based\ Fuzzing\ of\ the\ Swift\ Compiler\ with\ Incomplete\ Type\ Information}$

April 2025

Sarah Canto Hyatt, Kyle Dewey

International Conference on Software Testing, Verification and Validation (ICST) 2025 preprint ☑

Research Experience _____

University of California, Santa Barbara, Graduate Student Researcher

Santa Barbara, CA Sep 2024 – Present

- Conducting research under the supervision of Ben Hardekopf, PhD.
- Leading a project involving fuzzing statically typed languages.
- Assisting a project involving generating complex and interesting inputs for a software system under test.
- Assisting a project involving memory safety guarantees in unsafe Rust code.

California State University, Northridge, Research Assistant

Northridge, CA Aug 2022 – Dec 2023

- Conducted research under the supervision of Kyle Dewey, PhD.
- Developed a type-aware mutation-based black-box fuzzer for the Swift programming language.
- · Work publised in ICST 2025

Teaching Experience _____

University of California, Santa Barbara, Teaching Assistant

- Santa Barbara, CA Sep 2024 – Present
- Serving as a TA for CMPSC 8: Introduction to Computer Science (Winter'25)
 Served as a TA for CMPSC 16: Problem Solving with Computers 1 (Fall'24)

California State Univeristy, Norhtridge, Instructional Student Assistant

Northridge, CA Jan 2021 – Dec 2023

- Served as an instructional assistant for the following CS courses:
 - COMP 110/L: Introduction to Algorithms and Programming (Spring'23, Fall'23)
 - COMP 182/L: Data Structures and Program Design and Lab (Fall'22, Spring'23)
 - COMP 282: Advanced Data Structures (Fall'22)
 - COMP 333: Concepts of Programming Languages (Fall'23)
 - COMP 482: Algorithm Design and Analysis (Fall'23)
- Hosted individual and group tutoring for the folloring CS courses:
 - COMP 110/L: Introduction to Algorithms and Programming (Spring'21)
 - COMP 122/L: Computer Architecture and Assembly Language and Lab (Spring'21, Fall'21, Spring'22)

- COMP 182/L: Data Structures and Program Design and Lab (Spring'21, Spring'22)
- COMP 282: Advanced Data Structures (Spring'21)