

# Sarah Canto Hyatt

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## Education

<b>PhD</b>	<b>University of California, Santa Barbara</b> , Computer Science	In Progress
<b>MS</b>	<b>California State University, Northridge</b> , Computer Science	Dec 2023
<b>BS</b>	<b>California State University, Northridge</b> , Computer Science	May 2021
	• Minor: Mathematics	

## Publications

<b>Mutation-Based Fuzzing of the Swift Compiler with Incomplete Type Information</b>	April 2025
<i>Sarah Canto Hyatt</i> , Kyle Dewey	
International Conference on Software Testing, Verification and Validation (ICST) 2025	
<a href="#">publication</a> <a href="#">🔗</a>	

## Research Experience

<b>University of California, Santa Barbara</b> , Graduate Student Researcher	Santa Barbara, CA Sep 2024 – Present
<ul style="list-style-type: none"> <li>Conducting research under the supervision of Ben Hardekopf, PhD.</li> <li>Researching breakthroughs in metamorphic and mutation-based fuzzing applied to statically typed languages and EDA tools for hardware design.</li> <li>Assisting a project involving automatically generating complex and interesting inputs for a software system under test.</li> <li>Assisting a project involving memory safety guarantees in unsafe Rust code.</li> </ul>	
<b>California State University, Northridge</b> , Research Assistant	Northridge, CA Aug 2022 – Dec 2023
<ul style="list-style-type: none"> <li>Conducted research under the supervision of Kyle Dewey, PhD.</li> <li>Developed a type-aware mutation-based black-box fuzzer for the Swift programming language.</li> <li>Above work was published in ICST 2025</li> </ul>	

## Teaching Experience

<b>University of California, Santa Barbara</b> , Teaching Assistant	Santa Barbara, CA Sep 2024 – Present
<ul style="list-style-type: none"> <li>Currently serving as a TA for CMPSC 160: Translation of Programming Languages (Fall'25)</li> <li>Served as a TA for the following courses: <ul style="list-style-type: none"> <li>CMPSC 8: Introduction to Computer Science (Winter'25 and Summer'25)</li> <li>CMPSC 24: Problem Solving with Computers 2 (Spring'25)</li> <li>CMPSC 16: Problem Solving with Computers 1 (Fall'24)</li> </ul> </li> </ul>	
<b>California State University, Northridge</b> , Instructional Student Assistant	Northridge, CA Jan 2021 – Dec 2023
<ul style="list-style-type: none"> <li>Served as an instructional assistant for the following CS courses: <ul style="list-style-type: none"> <li>COMP 110/L: Introduction to Algorithms and Programming (Spring'23, Fall'23)</li> <li>COMP 182/L: Data Structures and Program Design and Lab (Fall'22, Spring'23)</li> <li>COMP 282: Advanced Data Structures (Fall'22)</li> <li>COMP 333: Concepts of Programming Languages (Fall'23)</li> </ul> </li> </ul>	

- COMP 482: Algorithm Design and Analysis (Fall'23)
- Hosted individual and group tutoring for the following 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)