Hannah Potter

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RESEARCH EXPERIENCE

PLSE GROUP | University of Washington
Fall 2021 - present | Seattle, WA
Advised by Professor René Just. Research Assistant position for Summer 2022 and Winter/Spring/Autumn 2023. Continuing collaboration on Hazel Tutor project with Professor Cyrus Omar (see below); collaborated with one Master's student. Additionally worked on pull request change decomposition project, collaborating with one PhD and one undergraduate student. Currently investigating strategies to make it easier for developers and students to understand mutants for mutation testing.

FUTURE OF PROGRAMMING LAB | University of Michigan
Fall 2019 - Summer 2021 | Ann Arbor, MI
Worked with Professor Cyrus Omar. Assistant in Research position for Summer 2020 and 2021. Led Hazel Tutor project which is a programming tutor for Hazel, a live functional programming environment with holes. Collaborated with four undergraduate students working on the project.

RESEARCH ASSISTANT | University of Utah
January - August 2019 | Salt Lake City, UT
Worked with Professor Eliane Wiese. Worked on a project for detecting poor coding patterns commonly seen in the work of early CS students by extending an existing code pattern matching tool.

PAPERS & TALKS

Live Pattern Matching with Typed Holes
Yongwei Yuan, Scott Guest, Eric Griffis, Hannah Potter, David Moon, & Cyrus Omar
Paper
Published in OOPSLA @ SPLASH 2023
*Best Paper Award
https://doi.org/10.1145/3586048

Contextualized Programming Language Documentation
Hannah Potter, Ardi Madadi, René Just, & Cyrus Omar
Paper & Talk
Published in Onward! Papers @ SPLASH 2022
https://doi.org/10.1145/3563835.3567654

Hazel Tutor: Guiding Novices Through Type-Driven Development Strategies
Hannah Potter & Cyrus Omar
Paper & Talk
Presented at Human Aspects of Types and Reasoning Assistants Workshop (HATRA) @ SPLASH 2020
https://hazel.org/hazeltutor-hatra2020.pdf

INDUSTRY EXPERIENCE

LUCID SOFTWARE INC. | Software Engineer Intern
Summer 2016, 2017, 2018, 2019 | South Jordan, UT
Developed front-end automated testing using Selenium in Scala. Fixed bugs and added features for both LucidPress and LucidChart as a full stack developer. Worked on the front-end using the Angular framework in HTML, Less, and Typescript. Worked on back-end in Scala.

TEACHING EXPERIENCE

CSE TEACHING ASSISTANT | University of Washington
Autumn 2021 - Spring 2022, Autumn 2022 | Seattle, WA
Led discussions, conducted help hours for students and test review, and graded assignments and tests. Was a TA for Compiler

Construction (CSEP 501), Software Design and Implementation (CSE 331), Software Engineering (CSE 403), and Advanced Topics in Software Systems (CSEP 504).

ENGINEERING TEACHING CONSULTANT | University of Michigan
Fall 2020, Winter 2021 | Ann Arbor, MI
Consult with student instructors about good teaching practices and conduct midterm student feedback reviews. Led cohort of new student instructors through discussions of good teaching practices, including inclusive teaching.

EECS GRADUATE STUDENT INSTRUCTOR | University of Michigan
Winter/Fall 2020, Winter 2021 | Ann Arbor, MI
Developed assignment and discussion course materials. Led discussions, conducted help hours for students, and graded assignments and tests. Was a GSI for Programming Languages (EECS 490) twice and Advanced Programming Languages (EECS 590) once.

EECS TUTOR | University of Michigan
Fall 2019 | Ann Arbor, MI
Held open tutoring hours for Cognitive Science majors who were taking EECS courses.

COMPUTER SCIENCE TA | University of Utah
Fall 2017, Spring/Fall 2018, Spring 2019 | Salt Lake City, UT
Led labs, conducted help hours for students, conducted test reviews, graded assignments and tests. Was a TA for Software Practice (CS 3500) twice, Compilers (CS 4470) once, and Introduction to Object-Oriented Programming (CS 1410) once.

ACADEMIC EXPERIENCE

UNIVERSITY OF WASHINGTON | PhD in Computer Science and Engineering
Expected Graduation June 2027 | Seattle, WA
GPA: 3.89 / 4.0 • MS in Computer Science and Engineering (2023)

UNIVERSITY OF MICHIGAN | MSE in Computer Science and Engineering
Graduated Spring 2021 | Ann Arbor, MI
GPA: 4.0 / 4.0

UNIVERSITY OF UTAH | Honors BS in Computer Science
Graduated May 2019 | Salt Lake City, UT
Magna Cum Laude • Dean's List (All Semesters) • Cum. GPA: 3.982 / 4.0 • Major GPA: 4.0 / 4.0

SERVICE & OUTREACH EXPERIENCE

PHD K-12 OUTREACH COORDINATOR | Staff Assistant, University of Washington
Fall 2022 - present | Seattle, WA

- Lead efforts to organize UW CSE PhD student outreach efforts to K-12 students in the greater Seattle area.
- Organized researcher involvement in:
  - UW CSE participation in CS Ed Week 2022 and 2023, including virtual events and an open house with lab activities. In 2022, there were 93 attendees across 7 virtual events and an estimated 250 attendees at the open house. In 2023, there were 231 attendees (128 unique) across all virtual events and approximately 200 attendees at the open house.
  - Admitted Student Day for 2023, where undergraduates directly admitted to the Paul G. Allen School of Computer Science and Engineering and their families can come to campus. The open house included lab activities.
  - Lab activities for field trips to the Allen School.

STUDENT VOLUNTEER FOR ECOOP/ISSTA 2023 | In-person
July 2023 | Seattle, WA

STUDENT VOLUNTEER FOR SPLASH 2022 | In-person
December 2022 | Auckland, New Zealand

UNDERGRADUATE STUDENT ADVISORY COMMITTEE FOR THE SCHOOL OF COMPUTING | Member and Chair, University of Utah
Fall 2016 - Spring 2019 | Salt Lake City, UT

- Planned events, served as representatives for students to faculty/administration, participated in retention-promotion-tenure reviews of professors.
- Specifically focused on breaking down barriers between professors and students and building an inclusive and supportive environment for all CS undergraduate students.

- Served as Chair for the 2018-2019 academic year.
- Professor Ryan Stutsman served as faculty advisor all years.

AWARDS RECEIVED

- 2nd Place in ECOOP/ISSTA Student Research Competition 2023
- NSF GRFP Honorable Mention 2021
- 3rd Place Team for Senior Capstone Project 2019
- 3rd Place Team in Lucid Software Employee Hackathon 2017
- National Merit Scholar 2015
- University of Utah President's Scholarship 2015