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Education _

PhD, University of California Santa Cruz

Santa Cruz, CA

GPA:

September 2021 - Present

PhD in Computer ScienceAdvised by Daniel Fremont

BS/BA, University of California Santa Cruz

Santa Cruz, CA

GPA: 3.75/4.0

September 2017 - June 2021

- Bachelor of Science in Computer Science with Highest Honors
- Bachelor of Arts in Computational Mathematics with Highest Honors
- University Honors, Cum Laude

Experience _____

Undergraduate Researcher in Language, Systems and Data Lab

Santa Cruz, CA

University of California, Santa Cruz

February 2021 - July 2021

- Worked under Daniel Fremont at UCSC to complete a senior thesis extending the original Control Improvisation concept to allow for labelling of improvisations.
- Formalized new problem definitions for Labelled Control Improvisation, an extension of the original Control Improvisation problem. Provided efficient algorithms and rigorous guarantees for these new problems.

Undergraduate Researcher in i-NRG Lab

Santa Cruz, CA

University of California, Santa Cruz

February 2018 - July 2021

- Worked on the PIMAP project under Katia Obraczka and Sam Mansfield at UCSC.
- PIMAP is "a system architecture that presents a standard to collect medical device data, store it and analyze it in the Cloud, in a secure and private manner".
- Implemented PIMAP framework for Sentinel and SmartDerm bandages for collecting, analysing, and visualizing data to detect and prevent pressure ulcers.

Undergraduate Researcher in Design and Verification Lab

Santa Cruz, CA

University of California, Santa Cruz

October 2019 - December 2020

- Developed Wikitrust 2.0 project under Luca de Alfaro at UCSC.
- Wikitrust 2.0 is a revamped version of the original Wikitrust project. "WikiTrust is an open-source, online reputation system for Wikipedia authors and content".
- Actively involved in implementation of the algorithms in Python and researching theoretical improvements to the overall system.

Tutor and Reader at UCSC

Santa Cruz, CA

January 2020 - June 2021

University of California, Santa Cruz

- Spring 2021: Reader for CSE 130 (Operating Systems)
- Spring 2020: Reader for CSE 120 (Computer Architecture)
- Winter 2020: Tutor for CSE 110A (Compilers)

Awards and Achievements ____

Patrick Mantey Undergraduate Leadership Award

May 2020

- "The Patrick Mantey Undergraduate Leadership Award recognizes a Baskin School of Engineering undergraduate student who demonstrates outstanding leadership abilities and exhibits academic merit. Students, whose contributions represent the very best attributes and accomplishments in the community, are nominated by faculty (students do not apply) ... BSOE faculty nominate students for this award."
- · Nominated by Katia Obraczka for my work on the PIMAP project.

NSF Research Experience for Undergraduates Fellowship

June-July 2019

 Received a REU Summer Fellowship and Stipend from the National Science Foundation for my work on the PIMAP project at UCSC under Katia Obraczka and Sam Mansfield.

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Languages Python, C, Haskell, Java

Projects _____

CI Toolkit

HTTPS://GITHUB.COM/UCSCFORMALMETHODS/CITOOLKIT

• A Python 3 library containing tools to create and solve instances of the Control Improvisation problem and its extensions.

Substitution Cipher Genetic Algorithm

HTTPS://GITHUB.COM/WESTOLUTH/SUBSTITUTIONCIPHERGENETICALG

• A program written in Python 3 that uses a genetic algorithm to break a substitution cipher.