

Shiyuan Huang

MASTER'S STUDENT · COMPUTER SCIENCE AND ENGINEERING

University of California, Santa Cruz, 1156 High Street Santa Cruz, CA 95064

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Education

University of California, Santa Cruz

Santa Cruz, California

M.S. IN COMPUTER SCIENCE AND ENGINEERING

2022 - 2024

- Advisor: Dr. Leilani H. Gilpin
- Research Interest: Explainable Artificial Intelligence, Natural Language Processing

University of California, Santa Cruz

Santa Cruz, California

B.S. IN COMPUTER ENGINEERING

2018 - 2022

- Graduated with Highest Honor

Professional Experience

2022-2023 **Graduate Teaching Assistant**, Baskin School of Engineering, UC Santa Cruz

2021-2022 **Undergraduate Tutor, Reader**, Baskin School of Engineering, UC Santa Cruz

2021 **Software Engineer Intern**, Maxen Technology, Montréal, Québec, Canada

Publications

IN REVIEW

Shiyuan, Huang, Siddarth Mamidanna, Shreedhar Jangam, Yilun Zhou, Leilani H. Gilpin. 2023. Can Large Language Models Explain Themselves? A Study of LLM-Generated Self-Explanations. 2024 IEEE Conference on Secure and Trustworthy Machine Learning (SaTML)

Awards, Fellowships, & Grants

2022 **Dean's Honor**, Spring Quarter, UC Santa Cruz

2021 **Dean's Honor**, Fall Quarter, UC Santa Cruz
Dean's Honor, Spring Quarter, UC Santa Cruz

2020 **Dean's Honor**, Fall Quarter, UC Santa Cruz
Dean's Honor, Summer Quarter, UC Santa Cruz
Dean's Honor, Winter Quarter, UC Santa Cruz

2019 **College Scholar Program**, UC Santa Cruz
Dean's Honor, Fall Quarter, UC Santa Cruz

Research Experience

University of California, Santa Cruz - Baskin School of Engineering - AIEA Lab

Santa Cruz, CA

ADVISOR: DR. LEILANI H. GILPIN

Jun. 2023 - Present

- Project: Exploring the interpretability and trustworthiness of Large Language Models (LLM)
- Thesis: Can Large Language Models Explain Themselves? A Study of LLM-Generated Self-Explanations

Projects

BELS Assets Management System

UC Santa Cruz

ADVISOR: DR. RICHARD K JULLIG

Jan. 2022 - Jun.2022

- Developed a web-based system for Baskin Engineering Lab Support (BELS) that serves as a centralized platform for storing detailed information about assets and monitoring their current status

Baskin School of Engineering Course Scheduling Application

UC Santa Cruz

ADVISOR: DR. RICHARD K JULLIG

Sep. 2021 - Dec.2021

- Designed an application that monitors students' academic progress and offers personalized recommendations to enhance productivity

Teaching Experience

- Fall 2023 **Programming Abstractions: Python**, Teaching Assistant
- Spring 2023 **Programming Abstractions: Python**, Teaching Assistant
- Winter 2023 **Programming Abstractions: Python**, Teaching Assistant
- Fall 2022 **Programming Abstractions: Python**, Teaching Assistant
- Spring 2022 **Beginning Programming in Python**, Tutor, Reader
- Winter 2022 **Beginning Programming in Python**, Tutor, Reader
- Fall 2021 **Beginning Programming in Python**, Tutor, Reader
- Spring 2021 **Beginning Programming in Python**, Tutor, Reader

Outreach & Professional Development

PEER REVIEW

A guest reviewer with Dr. Leilani H. Gilpin

PROFESSIONAL MEMBERSHIPS

Student Member, American Society for Engineering Education (ASEE)

Student Member, Association for Computing Machinery (ACM)