Shiyuan Huang

Ph.D. Student · Computer Science and Engineering

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Education	
University of California, Santa Cruz PH.D. IN COMPUTER SCIENCE AND ENGINEERING • Advisors: Dr. Leilani H. Gilpin and Dr. Ian Lane • Research Interests: Explainability and Trustworthiness in Language Models	Santa Cruz, California 2024 – Present
University of California, Santa Cruz	Santa Cruz, California
M.S. IN COMPUTER SCIENCE AND ENGINEERING • Advisor: Dr. Leilani H. Gilpin • Graduated with a GPA of 3.97/4.00	2022 – 2024
University of California, Santa Cruz B.S. IN COMPUTER ENGINEERING	Santa Cruz, California 2018 – 2022
 Graduated with Highest Honor (Summa Cum Laude) Graduated with a major GPA in major coursework of 3.92/4.00 	2010 - 2022
Professional Experience	
 2025- Graduate Student Researcher, Baskin School of Engineering, UC Santa Cruz 2022- 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	
Sicong Huang, Jincheng He, Shiyuan Huang , Karthik Raja Anandan, Arkajyoti Chakraborty SemEval-2025 task 3: Context, models and prompt optimization for automated hallucing In Proceedings of the 19th International Workshop on Semantic Evaluation (SemEval-2	nation detection in LLM output.
Shiyuan, Huang , Siddarth Mamidanna, Shreedhar Jangam, Yilun Zhou, Leilani H. Gilpin. 20. Explain Themselves? A Study of LLM-Generated Self-Explanations.	23. Can Large Language Models
Presentations	
CONTRIBUTED PRESENTATIONS	
Sicong Huang, Jincheng He, Shiyuan Huang , Karthik Raja Anandan, Arkajyoti Chakraborty Models and Prompt Optimization for Automated Hallucination Detection in LLM Outpu California.	, and Ian Lane. 2025b. Context, ut. BayLearn 2025: Santa Clara,
Sicong Huang, Jincheng He, Shiyuan Huang , Karthik Raja Anandan, Arkajyoti Chakraborty SemEval-2025 task 3: Context, models and prompt optimization for automated hallucin The 19th International Workshop on Semantic Evaluation, ACL 2025: Vienna, Austria.	
Shiyuan, Huang , Siddarth Mamidanna, Shreedhar Jangam, Yilun Zhou, Leilani H. Gilpin. 20. Explain Themselves? A Study of LLM-Generated Self-Explanations. BayLearn 2024: App	
Shiyuan, Huang . 2024. Exploring Explainability and Interpretability in Generative AI. YRR: University, Kyoto, Japan.	SDS 2024; SIGDIAL 2024: Kyoto

Awards, Fellowships, & Grants __

2025	Vienna, Austria
2024	Deans' and Chancellor's Research Award, Spring Quarter, UC Santa Cruz
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 ____

AI Purchase Copilot(Analyzer)

Santa Clara, Santa Cruz, CA

ADVISOR: DR. IAN LANE

Jul. 2025 -

- Collaboration with UCSC Financial Affairs
- Designing and developing an Purchase Copilot to help procurement professionals identify requests that need further review.
- An application-driven research project including knowledge injection, feedback learning, RAG, context protocols, and model fine-tuning.

University of California, Santa Cruz - Baskin School of Engineering

Santa Clara, Santa Cruz, CA

ADVISOR: DR. LEILANI H. GILPIN AND DR. IAN LANE

Sept. 2024 -

- Quantifying language model familiarity across diverse tasks and domains Using likelihood analysis
- Studied the knowledge boundaries, abstention capabilities, and linguistic biases of large language models.

Exploring the Interpretability of Language Models by Feature Attribution

Santa Cruz, CA

ADVISOR: DR. LEILANI H. GILPIN

Jun. 2023 - Jun. 2024

- Project Report: Can Large Language Models Explain Themselves? A Study of LLM-Generated Self-Explanations
- Applied feature attribution methods to large language models to evaluate explainability; conducted experiments comparing results with Occlusion and LIME, and measured similarity across different types of explanations.

Software Development 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

Sept. 2021 - Dec.2021

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

Maxen Technology

Montréal, Québec, Canada

SOFTWARE DEVELOPMENT INTERN

Jun. 2021 - Sept.2021

• Collaborated with the software development team to design and implement backend endpoints using Django.

Teaching Experience ____

2024 Programming Abstractions: Python, Teaching Assistant
 2023 Programming Abstractions: Python, Teaching Assistant
 Fall 2022 Programming Abstractions: Python, Teaching Assistant
 2022 Beginning Programming in Python, Tutor, Reader
 2021 Beginning Programming in Python, Tutor, Reader

Outreach & Professional Development _____

PEER REVIEW

Guest reviewer with Dr. Leilani H. Gilpin

PROFESSIONAL MEMBERSHIPS

Student Member, American Society for Engineering Education (ASEE) Student Member, Association for Computing Machinery (ACM)