

# Samir Ghosh

Updated July 14, 2025

## Education

### University of California, Santa Cruz

PhD Student in Computational Media

Advisor: Katherine Isbister

Santa Cruz, California

2022 – Present

### University of Southern California

BS in Computational Linguistics

BA in Cognitive Science

Los Angeles, California

2018

## Honors and scholarships

Dean's Travel Grant

2025

Finalist, UC Santa Cruz Grad Slam

2023

Regents Fellowship

2023

CITRIS Tech For Good Award

2022

Dean's Fellowship

2022

## Publications

### **“Let's Jump into More Creative Avatars and Take this Brainstorm to the Flying Platform:” Playful Prototypes of VR Meeting Support Tools**

Anya Osborne, Joshua McVeigh-Schultz, Alexandra Leeds, George Butler, **Samir Ghosh**, and Katherine Isbister

*DIS 2025*

### **Introducing Booksnake: A Scholarly App for Transforming Existing Digitized Archival Materials into Life-Size Virtual Objects for Embodied Interaction in Physical Space, using IIIF and Augmented Reality**

Sean Fraga, Christy Ye, Henry Huang, Zack Sai, Michael Hughes, April Yao, and **Samir Ghosh**

*CHI EA '25*

### **Purposeful XR: Affordances, Challenges, and Speculations for an Ethical Future**

Elizabeth Childs, **Samir Ghosh**, Sebastian Cmentowski, Andrea Cuadra, Rabindra Ratan

*CHI EA '25*

### **Designing Shared VR Tools for Spatial Scientific Sensemaking About Wildfire Evacuation**

**Samir Ghosh**, Yuhui Wang, William Zhou, Kelly Lin, Joshua McVeigh-Schultz, and Katherine Isbister.

*CHI EA '24*

### **Eye Ball: Gazing as a Dilemma in a Competitive Virtual Reality Game**

Michael Lankes, **Samir Ghosh**, Charles Bishop Lesser, and Katherine Isbister.

*CHI EA '24*

### **The Cuteness Factor: An Interpretive Framework for Artists, Designers and Engineers**

Angela Y.H. Fan, Chen Ji, Ella Dagan, **Samir Ghosh**, Yuhui Wang, Katherine Isbister.

*DIS 2023.*

## Workshop Papers

### **Designing Interaction Approaches for Shared Sensemaking in XR**

**Samir Ghosh**, Joshua McVeigh-Schultz, and Katherine Isbister.

*Sensemaking Workshop, CHI '24*

### **Social Physiological Data Awareness in Collocated Mixed Reality Movement**

**Samir Ghosh**, Charles Lesser, Kaia Rae Schweig, Sofia De La Vega Mireles, and Katherine Isbister.

*PhysioCHI Workshop, CHI '24*

### **Revealing Aspects of Hawai'i Tourism Using Situated Augmented Reality**

Karen Abe, Jules Park, and **Samir Ghosh**

*With or Without Permission Workshop, CHI '24*

### **Designing a mixed-initiative multi-user VR interface for wildfire mitigation**

**Samir Ghosh**, Yanglan Wang, Kecheng Cheng, Anthony Angeles, Andrew Moskovich, Kenichi Soga, and Katherine Isbister.

*HCI for Climate Change Workshop, CHI 2023.*

## Selected projects

### **Booksnake AR**

NEH funded iOS AR app displaying assets from the Library of Congress and other archival information. Early design, software architecture, and project management contributions.

### **Bunker Hill VR**

Historical recreation of 1930s downtown Los Angeles using civil engineering data. Project management, documentation, and technical contributions

### **Stanza Del Segnatura**

WebGL 3D app that overlays primary sources over frescoes from The Vatican. Build and distribution contributions.

### **Bodyscape**

Internationally exhibited (e.g. SIGGRAPH, Ars Electronica) wearable technology fashion piece by Behnaz Farahi. Contributions in gait responsive algorithms, circuit design, safety systems, and generative design

## Research positions

### **Graduate Student Researcher, UC Santa Cruz**

June 2025 - *present*

Coastal Climate Resilience Center and UC Santa Cruz Visualization Lab

### **Graduate Student Researcher, UC Santa Cruz**

June 2025 - *present*

Catalyst Program, UC Open Source Program Office

### **Visiting Scholar, Blekinge Institute of Technology**

May 2025 - June 2025

HINTS Project, Department of Computer Science

**Graduate Student Researcher, UC Santa Cruz** June 2023 - April 2025  
Virtual Reality for Scientific Sensemaking, Social Emotional Technology Lab  
Supported by the [Sloan Foundation](#)

Industry  
experience

**Ahmanson Lab** USC Harman Academy Los Angeles, California  
Assistant Director Jan 2019 - Aug 2022

**YUR Inc.** Los Angeles, California  
VR Developer Jul 2021 - Dec 2021

**Intel Corporation** Santa Clara, California  
Intern Summer 2016, Summer 2018, Fall 2018

**Enlighted Inc.** Sunnyvale, California  
Intern Summer 2014

Teaching

**Teaching assistant, UC Santa Cruz** Winter 2022  
CMPM 115: Lead By Design

Seminars, Talks,  
and Tutorials

**Revisiting the for Loop** Nov 2023  
Slugworks, UC Santa Cruz

**A Career in HCI and VR** Oct 2023  
Cognitive Science Student Association, UC Santa Cruz

**Generative Art in Virtual Reality Using p5js** Jun 2023  
Digital Arts and New Media, UC Santa Cruz

**Wildfires in Virtual Reality** Mar 2023  
UC Santa Cruz Grad Slam, Kuumbwa Jazz Center

**Multi-user VR workshop** Feb 2023  
Digital Arts and New Media, UC Santa Cruz

**Surveillance and the Attention Economy** Mar 2022  
Polymathic Making Workshops, Ahmanson Lab at USC

**Computational Art** Feb 2022  
Polymathic Making Workshops, Ahmanson Lab at USC

**WebRTC, WebGL, and other web protocols** Jan 2022  
Polymathic Making Workshops, Ahmanson Lab at USC

**Techniques with Graphics Code** Sep 2021 - Oct 2021  
Emergent Technology Series, Ahmanson Lab at USC

**VR Web Development** Sep 2021 - Oct 2021

Emergent Technology Series, Ahmanson Lab at USC

**Object recognition, privacy rights, and data collection** Sep 2021  
Polymathic Making Workshops, Ahmanson Lab at USC

**Sensors, lights, and motors** Sep 2021  
Polymathic Making Workshops, Ahmanson Lab at USC

**3D Modeling Basics** Sep 2021  
Polymathic Making Workshops, Ahmanson Lab at USC

**Glitch + D3.js** Oct 2020  
Generative art-a-thons, Ahmanson Lab at USC

**VR with Mozilla Hubs** Oct 2020  
Generative art-a-thons, Ahmanson Lab at USC

**p5js** Sep 2020  
Generative art-a-thons, Ahmanson Lab at USC

**Applied Neural Networks** Apr 2020  
Polymathic Making Workshops, Ahmanson Lab at USC

**Introduction to Creative Code** Apr 2020  
Polymathic Making Workshops, Ahmanson Lab at USC

**STEM Speaker Series** Mar 2020  
Katherine Johnson STEM Academy

**Deepfake Detection** Mar 2020  
Polymathic Making Workshops, Ahmanson Lab at USC

**Practical Arduino** Mar 2020  
Polymathic Making Workshops, Ahmanson Lab at USC

**Data Surveillance and Digital Rights** Feb 2020  
Polymathic Making Workshops, Ahmanson Lab at USC

**Introduction to 3D Printing and the Makerbot Replicator** Feb 2020  
Polymathic Making Workshops, Ahmanson Lab at USC

**Wearable Technology** Oct 2019  
Polymathic Making Workshops, Ahmanson Lab at USC

**Get your own climate data** Oct 2019  
Polymathic Making Workshops, Ahmanson Lab at USC

**Introduction to 3D Printing and the Makerbot Replicator** Sep 2019  
Polymathic Making Workshops, Ahmanson Lab at USC

Service	<b>Practical Arduino</b> Polymathic Making Workshops, Ahmanson Lab at USC	Sep 2019
	<b>WebVR</b> Polymathic Making Workshops, Ahmanson Lab at USC	Nov 2019
	<b>Promise and Peril of Algorithmic Living</b> USC Visions and Voices	Apr 2018
	<b>Google Summer of Code</b> <i>UC Open Source Program Office</i> Mentor	Summer 2022
	<b>Creative Code Collective</b> Community Lead	2023 – <i>Present</i>
	<b>Committee for Planning and Budget</b> <i>Academic Senate, UC Santa Cruz</i> Graduate Representative	2023 – <i>Present</i>
	<b>MIT Reality Hack</b> Mentor	2025
	<b>ACM Halfway to the Future Symposium 2024</b> Social Media Chair	2023-2024
	<b>Google Summer of Code</b> <i>Processing Foundation</i> Mentee, Contributor	Summer 2022
	<b>Corpus Callosum (Student Org.)</b> Viterbi School of Engineering, USC Technical Director	Fall 2015 - Spring 2018
Personal information	<b>Citizenship:</b> USA <b>Languages:</b> English (native), French (proficient), Korean (basic) <b>Email:</b> <a href="mailto:samir.ghosh@ucsc.edu">samir.ghosh@ucsc.edu</a> <b>Website/Portfolio:</b> <a href="http://samir.tech">samir.tech</a> <b>Misc. interests:</b> capoeira, open water swimming, creative code	