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Education

University of Southern California

DOCTOR OF PHILOSOPHY, COMPUTER SCIENCE (ROBOTICS & AI)

August 2023 -

Los Angeles, CA

Los Angeles, CA

University of Southern California

Jan. 2021 - May 2023

MASTER OF SCIENCE, COMPUTER SCIENCE

University of California, Los Angeles

October 2014 - June 2016

MASTER OF SCIENCE, COMPUTER SCIENCE

Los Angeles, CA

University of Wisconsin-Madison

September 2010 - May 2014

BACHELOR OF SCIENCE, COMPUTER SCIENCE

Madison, WI

Publications

- I-Chun Arthur Liu, Jason Chen, Gaurav S. Sukhatme[†], and Daniel Seita[†]. D-CODA: Diffusion for Coordinated Dual-Arm Data Augmentation. In Conference on Robot Learning (CoRL), 2025.
- I-Chun Arthur Liu, Sicheng He, Daniel Seita[†], and Gaurav S. Sukhatme[†]. VoxAct-B: Voxel-Based Acting and Stabilizing Policy for Bimanual Manipulation. In Conference on Robot Learning (CoRL), 2024.
- Gautam Salhotra*, I-Chun Arthur Liu*, and Gaurav S. Sukhatme. Learning Robot Manipulation from Cross-Morphology Demonstration. In Conference on Robot Learning (CoRL), 2023.
- Gautam Salhotra*, I-Chun Arthur Liu*, Marcus Dominguez-Kuhne, and Gaurav S. Sukhatme. Learning Deformable Object Manipulation from Expert Demonstrations. In IEEE Robotics and Automation Letters (RA-L) and IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), 2022.
- I-Chun Arthur Liu*, Shagun Uppal*, Gaurav S. Sukhatme, Joseph J. Lim, Peter Englert, and Youngwoon Lee. Distilling Motion Planner Augmented Policies into Visual Control Policies for Robot Manipulation. In Conference on Robot Learning (CoRL), 2021.
- * denotes equal contribution. † denotes equal advising.

Research Experience

Google DeepMind June 2025 - Now

STUDENT RESEARCHER. HOSTED BY CONNOR SCHENCK.

Mountain View, CA, United States

• 3D representations for manipulation.

Amazon Robotics May 2023 - August 2023

APPLIED SCIENTIST INTERN

MA, United States

• Targeted bin picking research (robotic manipulation).

University of Southern California, Robotics Embedded Systems Laboratory (RESL)

January 2021 - May 2023

RESEARCH ASSISTANT (PART-TIME, PAID POSITION). ADVISED BY PROF. GAURAV SUKHATME.

Los Angeles, CA, United States

• Published three papers (CoRL 2021, RA-L + IROS 2022, CoRL 2023) as first author. Research interests: reinforcement learning and vision for robotics.

Academia Sinica (Institute of Information Science), Multimedia Technologies Laboratory

January 2019 - December 2020

RESEARCH ASSISTANT (FULL-TIME, PAID POSITION). ADVISED BY PROF. HONG-YUAN MARK LIAO AND PROF. LI-FEN CHEN.

Taipei, Taiwan

• Conducted research on computer vision in topics including object detection and instance segmentation.

Achievements

2025 - USC URAP Funding, Assisted my advisee, Jason, in securing this funding to support his work on my research project.

2023 - USC 1-Year Fellowship, University of Southern California - Viterbi School of Engineering (awarded to selected PhD students).

2023 - Computer Science Best Research Award, University of Southern California - Viterbi School of Engineering (MS Award).

2016 - PlacetoStudy Featured in The Daily Bruin Newspaper, A website that helped students find good locations for studying around campus.

Mentoring

USC Masters Students: Sicheng He (CoRL 2024), Hanwen Fan (Current) **USC Undergraduate Students**: Jason Chen (CoRL 2025, Current)

External Collaborators: QJ Tsway (Current)

Teaching

Spring 2025, Teaching Assistant - USC CSCI 572: Information Retrieval and Web Search Engines (Master's Level), Saty Raghavachary. **Fall 2024**, Teaching Assistant - USC CSCI 545: Introduction to Robotics (Master's Level), Stefanos Nikolaidis.

Services

Reviewer CoRL 2022 to 2024; WAFR 2024; ICRA 2025

Work Experience _____

Appier October 2017 - April 2018

SOFTWARE ENGINEER, FRONTEND

Taipei, Taiwan

Maintained and developed new features for dynamic creatives generator tool using React, Redux, JavaScript, and CSS.

Mozilla (Firefox DevTools Debugger)

November 2016 - November 2017

OPEN SOURCE CONTRIBUTOR

GitHub

• Made 35 contributions, from small UI fixes to significant features, to Firefox's new DevTools Debugger, which is written in React and Redux.

National Development Council

August 2016 - August 2017

FOREIGN LANGUAGE SPECIALIST — CONSCRIPT

Taipei, Taiwan

• Translated social/cultural development policy documents from and into Chinese and English.

Side Projects

Place to Study

June 2016 - November 2016

INDEPENDENT PROJECT

Los Angeles, CA

 Designed website (Place to Study) for students to find locations to study around campus, which had three main features: search UI for discovering locations, CMS for adding and reviewing new locations, and ratings and review system.

Master's Capstone Project (UCLA)

June 2015 - June 2016

INDEPENDENT PROJECT

Los Angeles, CA

• Designed a platform to connect businesses to their customers. The platform consisted of two applications: a web CMS for businesses to manage their store information and promotions and an iOS app for customers that provided easier access to their favorite stores.