

Harris Song

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Education

B.S. Computer Science, *Concentration in Business*

University of California, Los Angeles (UCLA)

June 2027

3.82 GPA

Coursework and Activities: LA Hacks Marketing/Data Director, Agile/Scrum, Jira, Confluence, CAD, FEA Analysis

C++, JavaScript, Golang, AWS, MongoDB, PostgreSQL, Networking/IP/TCP, Distributed Systems, Data Structures/Mining, Unix

Skills and Interests: PLO/Texas Holdem/Euchre/*Sheng Ji*, Skiing, Badminton, Scuba Diving, Combat Robotics

Experience

GRASP Laboratory, University of Pennsylvania, PA: *ML Researcher*

Jun 2025 - Present

- Researching **3D Vision-Language Transformer Models**, developing intuition for the 3D World through co-training
- Developing **Multi-Modal** (e.g. Time-Series, Voxels/3D, Image, Text) architectures for signal generation in the latent space
- Trained on GRASP High Performance Cluster with PyTorch, CUDA, Robosuite and Transformers Accelerate, NeRF, 3dGS

Bruin Capital Management, UCLA, CA: *Investment Analyst, FinTech Sector Head*

Jan 2025 - Present

- Equity research for SoFi, focusing on financial services, digital lending, and real estate-backed products
- Analyzed real estate-related (e.g., mortgages, home loans) to evaluate portfolio risk, geographic exposure
- Created pitch materials and forecasted upside via DCF and public comps; recommended BUY with 51% upside

ZNest, UCLA, CA: *Contract Product Consultant*

Jan 2025 - Mar 2025

- Consulted on AI-first senior-targeted living platform startup, creating material analysis for market fit and growth
- Conducted **user research/GTM** on senior living markets, then built automated newsletter targeting marketing campaigns
- Worked with founders as part of a six-person team (4 Engineers, 2 PMs) to deliver a pitch deck, prototype, and demo

Leidos, Washington, DC: *Software Engineering Intern*

Sep 2024 - Dec 2024

- Worked on *Sea Archer*, a lightweight implementation of *Sea Hunter* that has already circumnavigated the world
- Converted server-grade **Kubernetes** DevOps to a light-weight **Docker, RHEL/Rocky 8**, enabling autonomous startup/stop
- Debugged **Ansible Playbooks** and **System C++ Architecture**, reducing GUI simulation, built on NVIDIA-like edge hardware

Office of Congresswoman Sanchez, Whittier, CA: *Legislative Intern*

Aug 2022 - Dec 2023

- Worked in the Congresswoman's office on **constituent services, casework, and legislative research**
- Drafted policy briefs & press releases on issues including **technology privacy and AI**, education, and healthcare
- Assisted in community certifications, outreach for hosting the Congresswoman for community engagement events

Office of Naval Research (US Navy), Crane, IN: *Software Engineering Intern*

Jun 2023 - Aug 2023

- Developed vision-based systems on UGVs for IEDs found in the Iraq War w/ zero-shot YOLOv8 object detection

Activities/Projects

Association of Computing Machinery, UCLA, CA: *Internal Affairs Director*

Sept 2024 - Present

- Led planning and execution of ACM Board project demos, Cross-Committee socials, gathering feedback from 20 officers
- Coordinated event coordination budget allocation, and communication across 8 committees for 150+ ACM Officers
- Introduced **post-event surveys, data tracking** to measure satisfaction, inform the roadmap for future internal programming

California Association of Student Councils, UCLA, CA: *Legislative Speaker*

May 2024 - Present

- Presented **AI in Education legislation** to California Board of Education; check it out at harris-song.github.io/casc
- Proposed first bill for **AI Educator-based funding**; based on research precedent from Georgia, Florida
- Included incentive tech-related grants to incentivize teacher training on AI ethics, academic integrity safeguards

FIRST Robotics, Los Angeles, CA: *Team Captain and Mentor*

Aug 2019 - May 2023

- 1st in the Nation (of 7000+) teams *twice in 2021, 2023*, built reliable software to win the World Championships

Selected Publications

1. **Avi: A 3D Vision-Language Action Model Architecture generating Action from Volumetric Inference**
Harris Song, Long Le | *NeurIPS 2025 - Embodied World Models for Decision Making, 2025* | [Project Website](#), [PDF](#)
2. **Reconstruction Using the Invisible: Intuition from NIR and Metadata for Enhanced 3D Gaussian Splatting**
Gyusam Chang, Tuan-Anh Vu, Vivek Alumootil, **Harris Song**, Deanna Pham, Sangpil Kim, M. Khalid Jawed
CVPR 2025 - 2nd Workshop on Neural Fields Beyond Conventional Cameras | [Conference Website](#), [PDF](#)