

Education

University of California, San Diego

M.S. Computer Science, Advisor: Dr. Laurel Riek

La Jolla, CA

Expected: Jun, 2026

Relevant Coursework: Foundations of Future User Interfaces, Software Engineering, Algorithm Design and Analysis, Machine Learning: Learning Algorithms, Deep Learning, Recommender Systems & Web Mining

University of California, San Diego

B.S. in Cognitive Science with a specialization in Design and Interaction

Honors: Cum Laude, Provost Honors

La Jolla, CA

Jun, 2024

Relevant Coursework:

Design & HCI: Interaction Design, Advanced Interaction Design, Social Computing, Prototyping, Design Communication, Design Creativity & Productivity, Design of Everyday Things, Introduction to Mechanical Design, Design for Development Lab

Computer Science & Technical Foundations: Data Structures & Object-Oriented Programming, Software Tools & Techniques, Discrete Mathematics, Computer Organization, Data Science in Practice

Publications

- S. Jayaraman, A. Violette, **U. L. Lou**, S. Mani, D. Prakash, L. C. Oyama, C. Coyne, H. Kress-Gazit, and L. D. Riek, "CAR-EM: A synthesis-based clinically assistive robot system for emergency medicine," *ACM Transactions on Human Robot Interaction (THRI)*, 2025. (Accepted with minor revisions)

- Y. Li, J. Yu, **U. L. Lou**, D. Yu, M. Levin, K. S. Klimczak, and S. N. Liao, "Exploring Student Use of an ACT-based Mobile Application and its Impact on Reducing Procrastination," *ASEE Annual Conference & Exposition*, 2025.

Honors and Awards

- Macau DSEDJ Education Fund Scholarship 2024
- Thurgood Marshall College Distinguished Senior Service Award & Scholar 2024
- Thurgood Marshall College Citizen Cord Recipient 2022 - 2024

Relevant Professional Experience

University of California, San Diego | Halicioğlu Data Science Institute

La Jolla, CA

UX Designer

Jul, 2024 - Present

- Designed the user interface for a smartphone-based ACT application (ClearMind), creating interactive activities to help students manage academic procrastination.
- Conducted data analysis to identify behavioral patterns and inform iterative design improvements, using the Technology Acceptance Model (TAM) to guide interpretation.

University of California, San Diego | Healthcare Robotics Lab

La Jolla, CA

Research Assistant

Aug, 2023 - Present

- Designed and prototyped clinician-facing user interfaces for controlling healthcare robots in Emergency Department settings.
- Conducted clinician interviews, contextual inquiry, and usability testing to understand workflow needs and pain points.
- Contributed to patient-facing robot interaction interface design (in progress) and supported research directions for my master's thesis.

University of California, San Diego

La Jolla, CA

Teaching Assistant

Apr, 2023 - Present

- Led discussion sections and supported instruction for multiple design and cognitive science courses (30–50+ students).
- Hosted office hours to guide students and answer questions.
- Graded assignments and provided constructive feedback to support student learning.
- Courses:** Design for Everyday Things (3 quarters), Practicum in Professional Web Design, Design@Large, Cyborgs Now and in the Future.

Skills

- **Design & Research:** UI/UX Design, Prototyping, Wireframing, User Interviews, Contextual Inquiry, Usability Testing, Qualitative Analysis, Storytelling
- **Tools:** Figma, Adobe XD, Illustrator, Photoshop, Procreate, Miro, AutoCAD, Fusion 360
- **Programming:** Python, Java, C, JavaScript, HTML/CSS
- **Languages :** Cantonese (Fluent), Mandarin (Fluent), English (Fluent), Japanese (Intermediate)