U LAM LOU

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Professional Experience

UX Designer | Data-Driven Learning Lab, UC San Diego — Jul 2024 – Present

- Sole UX/UI designer for WillowMind, an ACT-based iOS app that helps students manage procrastination.
- Synthesized 2 focus groups (13 students) via thematic analysis to set v2 redesign priorities.
- Built Figma prototypes, a design system, App Store assets, and animation libraries.
- Leading the v2 redesign and building its front end in React Native (Expo).

Research Assistant | Healthcare Robotics Lab, UC San Diego — Aug 2023 – Present

- Designed the clinician tablet interface for CAR-EM, an autonomous ER robot, to assign and track tasks.
- Interviewed ER clinicians to define robot tasks and iterated designs from their feedback.
- Contributed to CAR-EM, which received an 89.25/100 SUS score from 11 clinicians at 2 hospital ERs.
- Designing patient-facing screens; built 3D-printed prototypes for patient focus groups.

Instructional Assistant / Teaching Assistant | UC San Diego — Jan – Jun 2023; Jan – Dec 2025

- Led discussion sections and design critiques for 30–50 students per term in HCI and design courses.
- Refined assignments, rubrics, and course materials with instructors.

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)*, 2026.

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.

Skills

Design: UI/UX Design, Interaction Design, Prototyping, Information Architecture, Design Systems, Accessibility

Research: User Interviews, Focus Groups, Usability Testing, Thematic Analysis, Qualitative Synthesis

Tools: Figma, Adobe Creative Cloud, AutoCAD, Fusion 360, 3D Printing, Procreate

Programming: JavaScript, HTML/CSS, Python, Java, C

Languages: English, Cantonese, Mandarin, Japanese (reading and listening)

Education

University of California, San Diego — La Jolla, CA

- M.S. Computer Science — Jun 2026
- B.S. Cognitive Science with a specialization in Design and Interaction — Jun 2024

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