JUSTINE C. LIM

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Los Angeles, CA, United States 91343

EDUCATION

University of California, Los Angeles (UCLA)   Graduation Date: June 2026

B.S. in *Computational and Systems Biology* (3.8/4.0 GPA)   *Los Angeles, CA, USA*

Concentration in *Dynamical Modeling*

Minors in *Environmental Systems and Society, Digital Humanities*

Thesis: *Computational Design and Analysis of RNA Nanostar Assemblies*

RESEARCH EXPERIENCE

University of California, Los Angeles (UCLA)   October 2023 - Present

Undergraduate Student Researcher   *Los Angeles, CA, USA*

Professor Jaimie Marie Stewart's Laboratory

- Work extensively with RNA nanotechnologies to gather information on its structural and functional programmability.
- Train with coarse-grained modeling, molecular dynamics simulation code (OxRNA, LAMMPS), and visualization softwares (OxView, ChimeraX).
- Remotely perform experiments (web-based and command-line) and analyzations (Python) while documenting computational data, adapting and implementing new strategies based on results.
- Preparing and presenting new research findings during weekly meetings with the team.

Singapore University of Technology and Design (SUTD)   June - August 2025

Undergraduate Student Researcher   *Singapore, Singapore*

Professor Lay-Kee (Ricky) Ang's Laboratory

- Conducted computational research on urban growth models, analyzing population scaling and CO_2 emissions with integer- and fractional-order methods. Collaborated with faculty mentors to interpret results.
- Applied MATLAB to model sustainability and urban planning dynamics across 25+ countries, presenting findings on complexity in global urban systems.

PUBLICATIONS

Kadam, P.R.*, **Lim. J.***, Dizani, M., and Stewart, J.M. (2025) Coarse-Grained Modeling and Simulation of Multi-Stranded RNA Nanostars. *ACS Chem & Bio Engineering.* *Equal contribution. (Featured as supplementary cover art)

AWARDS

Undergraduate Research Center (URC) - Sciences Travel Grant, *University of California, Los Angeles*   2024

PRESENTATIONS

2024 Biomedical Engineering Society (BMES) Annual Conference   October 2024

Coarse-Grained Modeling and Simulation of Multi-Stranded RNA Nanostars. (Poster)   *Baltimore, MD, USA*

PROFESSIONAL EXPERIENCE

ASUCLA Computer Store
February 2023 - Present

Apple-Certified Hardware Technician Supervisor
Los Angeles, CA, USA

- Provide quality technical support (walk-ins and over the phone) for laptops, tablets, phones, and other electronics.
- Diagnose issues and properly repair various devices, often working through the entire process with a customer, starting with an in-store consultation, and up until pick-up.
- Troubleshoot systems, working with customers to determine hardware or software solutions.

UCLA Nanosystem Institute (CNSI/E4)
June - September 2023

Cleanroom Lab Assistant
Los Angeles, CA, USA

Certifications and Trainings:

EHS Laboratory Fundamental Concepts
Classmarker Cleanroom Safety Exam
Nanolab Safety Walkthrough

- Maintained cleanliness and safety by independently conducting regular inspections inside and outside the lab in a semiconductor Class 100/1000 cleanroom environment, ensuring a hazard-free workplace.
- Followed safe protocols for chemical handling, disposal, and maintenance of advanced research equipment.

CAMPUS INVOLVEMENT

Pacific Ties Newsmagazine
January 2024 - Present

Head of Design and Social Media
Los Angeles, CA, USA

- Direct the organization's cross-platform visual identity, developing logos, branding guidelines, and design standards.
- Lead content strategy, ensuring all materials amplify APIDA voices and strengthen community engagement.
- Produce quarterly page spreads and digital media using Adobe Creative Suite for print and online platforms.

Sustainability Action Research at UCLA
November 2025 - Present

Project Member - STARS and Sustainability Media Literacy
Los Angeles, CA, USA

- Develop and implement a campus-wide assessment methodology to evaluate sustainability literacy and culture, directly contributing to the STARS (Sustainability, Tracking, Assessment & ranking system) performance metrics.
- Analyze the UCLA's Office of Sustainability's current communication strategies to inform future outreach strategies and maximize audience engagement.

Daily Bruin's The Stack
October 2024 - Present

Data Journalist
Los Angeles, CA, USA

- Investigate public datasets and apply quantitative analysis with Python and Git to produce data-driven stories and articles.
- Conduct and integrate interviews with UCLA students, faculty, and staff to contextualize and strengthen reporting.

Pilipinos in Engineering and Science (PIES)
September 2023 - Present

UI/UX Web Designer, PR Intern
Los Angeles, CA, USA

- Design user-friendly web interfaces, collaborating with developers to implement UI/UX improvements.
- Create graphics, merchandise, and promotional materials to strengthen public engagement and image.

U.S. Department of Energy Solar Decathlon   September 2024 - May 2025

Environment Data Analyst - UCLA's Bruin Builders   *Los Angeles, CA, USA*

- Researched potential building sites in Los Angeles, evaluating land costs, zoning considerations, and material expenses for a multi-family housing project.
- Modeled energy consumption and costs by analyzing appliance use, informing sustainable design strategies for efficient and renewable-powered housing.

RELEVANT UCLA COURSEWORK

Environment & Sustainability

EE Biol 116 - Conservation Biology

Environ M153 - Sustainable Architecture and Community Planning (Currently Enrolled)

Environ M167 - Environmental Justice through Multiple Lenses (Currently Enrolled)

Environ 188A - Sustainable Energy in Nature and Society (Currently Enrolled)

Applied Science

Math 33A - Linear Algebra

Math 33B - Differential Equations

Math 61 - Discrete Structures

Math 170E - Probability and Statistic I: Probability

EE Biol C172 - Advanced Statistics in Ecology and Evolutionary Biology

Com Science M182 - Dynamic Biosystem Modeling and Simulation Methodology (Currently Enrolled)

Com Science 31 - Computer Science Fundamentals

Geography 7 - Geographic Information Systems

Geography 182A - Remote Sensing

Applied Design

Digital Humanities 101 - Introduction to Digital Humanities

Digital Humanities 110 - User Experience and Design

Asian Am Studies 191A - Web Development and GIS for Social Change

TEST SCORES

SAT

1580/1600, 99th percentile (800; Math, 780; Reading and Writing)   2022

KEY SKILLS

Computational & Geospatial Analysis

Research experience using computational 3D software (Blender and Cinema 4D); coding expertise (R, Python, MATLAB, C++, JavaScript, and Zsh/Bash/Unix); spatial analysis and remote sensing (QGIS and ENVI).

Data Management & Visualization

Expert in code management (GitHub and Box); data reporting (Microsoft Office Suite and Google Workspace); data visualization (Tableau and HTML/CSS).

Design & Digital Media

Advanced in Adobe Creative Suite (After Effects, Illustrator, and Photoshop); experience in UI/UX design, branding, and professional publishing platforms (Issuu and Webflow).