

SHIORI NAKAYA

shiorinakaya@gmail.com | Duarte, CA

EDUCATION

University of California, Riverside

College of Natural and Agricultural Sciences

Bachelors of Science in Geophysics, Minor in Mathematics

Riverside, CA

2025 - June 2026 (expected)

- Undergraduate Student Editorial Board Member for UCR Undergraduate Research Journal
- Undergraduate Research Assistant at Ford Seismological Laboratory
- Member of Geosciences Undergraduate Student Organization
- Member of TRIO Scholars Program

Planned/Current Courses: Global Geophysics, Structural Geology, Probability and Statistics for Scientists/Engineers, Planets in Science Fiction (Winter 2025)

Pasadena City College

Associate in Science Degree for Geographic Information Systems

Pasadena, CA

2022 - June 2026

Associate in Science Degree for Transfer in Mathematics

2022 - June 2024

- Honors Transfer Program Participant, PASS TRIO Scholar, Recipient of Edwin Van Amringe Scholarship and PASS Scholarship, Member of the first Inaugural Cohort of Calculus Achievement for Success Program
- Vice President, Public Relations Chair, and ICC Representative of Dana Club (Geoscience Club)
- Outreach Events: STEM Saturday Spring/Fall 2023, HBCU Caravan Fall 2023, Earth Day 2023

Completed Courses: Single Variable Calculus I/II, Multivariable Calculus, Differential Equations, Physical Oceanography, Physical Geology Lecture/Lab, Physical Geology Field Study, Physics with Calculus I Lecture/Lab

El Camino College

Major: Biological Sciences

Torrance, CA

August 2009 - May 2015

Completed Courses: General Physics I/II/III Lecture/Lab, General Biology Lecture/Lab, General Chemistry I/II Lecture/Lab, Organic Chemistry I/II Lecture/Lab

RESEARCH EXPERIENCE

NASA/JPL-California Institute of Technology

VERITAS MSP/SOAR Intern

Pasadena, CA

June 2024 - present

Mentor: Suzanne E. Smrekar, PhD **Co-Mentor:** Anna P. Gülcher, PhD

- Prepared training set for machine learning model utilizing image segmentation and fault mask label scripts.
- Explored correlations between geophysical data (crustal thickness, elastic thickness, geoid, topography, mantle load) and wrinkle ridge orientation and locations to determine if wrinkle ridges are a potential location for recent geologic activity.
- Accepted poster presentation abstract for **Lunar and Planetary Science Conference 2025. Abstract #2583, Exploring Driving Forces of Wrinkle Ridge Formation on Venus.**
- Presented research poster at **Pasadena City College Natural Science Division Summer 2024 Research Poster Session (Exploring Potential Mechanisms for Wrinkle Ridge Formation and Applications in Machine Learning for Mapping Wrinkle Ridges)** and **Geological Society of America CONNECTS 2024 Conference.**
- **Skills:** QGIS, ArcGIS Pro, Data Analysis, Python Programming, Machine Learning Applications

University of California, Riverside - Ford Seismological Laboratory

Part-time Undergraduate Research Assistant

Riverside, CA

January 2025 - present

PI: Heather Ford, PhD

- Downloading and processing raw data and generating receiver function analysis from seismic stations.
 - Seismic data gathered from stations in the Sierra Nevada using NSF SAGE Earthscope Database
 - **Skills:** Data analysis, Python Programming, Data Processing
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WORK EXPERIENCE

Raymond M. Alf Museum of Paleontology

ACCESS PALEO Intern

Claremont, CA

June 2023 - August 2023

- Prepared museum exhibit on convergent evolution utilizing fossils from the museum collection.
- Attended GSA Connects 2023 to apply networking skills and explore career options in the geosciences
- Prepared a 1 minute TikTok video on sexual dimorphism in Brontotheres for the museum TikTok
- Prepared and posted an instagram post about California Fan Palms at the California Botanic Garden

- **Skills:** Exhibit Design, Education Outreach, Public Outreach, Social Media

Cedars Sinai Medical Center

Animal Laboratory Technician

California Institute of Technology

Assistant Animal Laboratory Technician

Los Angeles, CA

May 2021 - July 2022

Pasadena, CA

February 2020 - May 2021

VOLUNTEER EXPERIENCE

Cosplay for Science

Invited Scientist

Los Angeles, CA

August 2023 - present

Popup Museum Outreach events attended: Star Wars Legends Con 2023, CalBG Family Bird Festival 2024, Discovery Day Power of the Plants 2024, Fishtival 2024 at the Cabrillo Marine Aquarium, LA Comic Con 2023, Dino Day at Gilb Museum 2024, Dino Fest at NHM LA 2024

California Science Center

Terrestrial Animal Husbandry Volunteer

Los Angeles, CA

August 2023 - July 2024