

Lucas Ognibene

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EDUCATION

Bachelor of Science in Environmental Science, University of California, Santa Cruz (UCSC)

- See appendix below for relevant classwork
- Graduation: expected in spring 2024

High School Degree, Oakland Technical High School, Oakland CA

- Oakland Tech Health Academy Program
- Paideia Program

RESEARCH EXPERIENCE

Lab Assistant, Paytan Biogeochemistry Lab, UCSC Department of Earth and Planetary Science

- April 2022-Present
- Tasks: Digestion of Equatorial Pacific deep-sea sediment cores using sequential leaching to isolate barite
- Supervisor: Ph.D. student Madison Wood

Environmental Technician, Fog Net Project, UCSC Department of Microbiology and Environmental Toxicology

- April 2022-Present
- Tasks: Planning, construction, and implementation of large fog collectors and scientific measurement instruments on the UCSC farm
- Supervisor: Professor Peter Weiss-Penzias

Puma Project Intern, Wilmers Lab, UCSC Department of Environmental Studies

- January 2023-Present
- Tasks: Species identification, picture tagging, and behavioral analysis of animals native to the Santa Cruz Mountains, with a focus on mountain lions
- Supervisor: Ph.D. candidate John Morgan
- April 2023-Present
- Tasks: Driving a 4x4, map and compass navigation, radio telemetry, investigating kill sites, establishing and servicing camera traps, and animal trapping
- Supervisor: Field Biologist Richard King

Forest Ecology Research Plot Intern, Gilbert Lab, UCSC Department of Environmental Studies

- September-December 2022
- Tasks: In-field data collection for tree census to assess dynamic changes in a reserve plot
- Supervisors: Professor Greg Gilbert and Reserve Manager Alex Jones

RELEVANT WORK EXPERIENCE

Sinterclad Surface Solutions, Santa Cruz, CA

- March 2020-July 2020
- Full-time construction work installing ceramic tiling for construction projects in the Santa Cruz area

Camp Galileo, Oakland, CA

- Summers 2016 and 2017
- Supervised and led science activities for children ages 4-10 (Summer 2016)
- Promoted to Summer Quest program, guiding science curriculum for children ages 11-14 (Summer 2017)

SKILLS & HOBBIES

- **Data Science & Modeling:** Proficient in Microsoft Office Suite/Google Workspace, statistical analysis and data visualization using R and Excel, system modeling and simulation using Insight Maker, 3D CAD modeling using Autodesk programs, familiarity with some aspects of ArcGIS.
- **Mechanical:** Intermediate-level car, motorcycle, bike, and household repair
- **Athletic:** Backpacking, mountain biking, surfing, sailing, skiing, snowboarding, basketball, baseball, rafting, camping
- **Certifications:** Wilderness First Aid, AHA CPR certified, University of California Laboratory Safety Fundamentals, University of California PPE Training, University of California Hazardous Waste Training
- **Other:** problem-solving, construction, navigating off-road trails on ATV, dirtbike, 4wd truck, and horseback

AWARDS

Emerging Voices Youth Award Presented by the Sierra Club

- With a group of students in Oakland Tech's Environmental Science program, persuaded the Oakland Public School Board to pass a resolution guaranteeing that all students from the class of 2022 onward will graduate with sufficient climate change awareness education
- Read about it here:
<https://www.sierraclub.org/san-francisco-bay/blog/2018/07/qa-oakland-teacher-honored-for-students-climate-literacy-advocacy>

LEADERSHIP & COMMUNITY SERVICE

- Santa Cruz Club Baseball Health and Safety Officer (2019-2020)
 - Ensure the fitness and safety of team members when training and competing against other NCBA club baseball teams
- ABC's and Rice (Siem Reap, Cambodia)
 - Assisted with free education, nutrition, and healthcare for children of Siem Reap, Cambodia under the supervision of Joshua Manheimer
- Rising Sun Energy (Oakland)
 - Aided educational outreach efforts and logistics for retrofitting homes with energy and water efficient appliances under the supervision of Marcus Miller
- Rickey Henderson Field (Oakland)
 - Conducted field maintenance, upkeep, and construction of bullpen under the supervision of Paul Mankin

APPENDIX: RELEVANT CLASSES COMPLETED

- Biological Principles of Environmental Sciences–ESCI 30 (A)
- Introduction to Environmental Sciences–ESCI 100A (A)
- Data Analysis in the Environmental Sciences–ESCI 160 (A+)
- Introduction to Weather and Climate–EARTH 12 (B)
- Environmental Geology Lecture and Lab–EARTH 20/L (A)
- Water in the Environment–EARTH 30 (A)
- Geologic Hazards–EARTH 104 (B)
- Coastal Geology–EARTH 105 (A+)
- Cell and Molecular Biology–BIOL 20A
- Intro Chemistry Lecture and Lab (3 quarters)
- Intro Physics Lecture and Lab (2 quarters)
- Intro Calculus (2 quarters)