

Elan Lavie
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Education

University of California Santa Barbara, Santa Barbara, CA
MA in Education, Single Subject Teaching Credential Physics, Industrial and Technology Education
Credential
June 2019

University of California Berkeley, Berkeley, CA
BA in Physics and Molecular and Cell Biology
May 2013

Experience

Physics, Astronomy, Engineering and Computer Science Teacher
El Cerrito High School, El Cerrito, CA
August 2019-Present

- Developed and taught four courses: Physics of the Universe, Honors Astronomy, Honors Engineering (project based), and AP Computer Science Principles for students from a wide range of socioeconomic backgrounds.

UC Berkeley SETI Summer Research Intern
UC Berkeley, Berkeley, CA
Summer 2020, 2025

- Worked with Dr. Steve Croft to test “TurboSETI”, an algorithm designed to extract candidate ET signals from noisy data, on Voyager 1 using the Green Bank Telescope in West Virginia.
- Created two Jupyter Notebook educational tutorials on GitHub, one for TurboSETI and the other on an ML reverse image search.
- Built a DIY radiotelescope and imaged data using GNU Radio software.

Summer Camp Songleader, Wilderness Leader, Supervisor and Counselor
Camp Tawonga, Groveland, CA
Summer 2008, 2009, 2011, 2013, 2014, 2016, 2018, 2019, 2021-2023

- 5 summers leading music for the 500-person community. Singing, acoustic guitar, campfires, music games, summer camp magic.
- 3 summers leading backpacking trips in and around Yosemite National Park for kids and teens.

Student Teacher
Dos Pueblos Engineering Academy, Santa Barbara, CA
August 2018-June 2019

- Taught introductory electronics, Arduino programming and Solidworks in the highly regarded Dos Pueblos “Engineering Academy”

Graduate Student Instructor
UC Berkeley, Berkeley, CA
September 2017-May 2018

- Responsible for planning and facilitating discussion sections, creating exam questions and grading for introductory descriptive Astronomy courses taught by Professors Alex Filippenko and Gibor Basri

Exploratorium Science Educator

Exploratorium, San Francisco, CA

September 2015 – May 2017

- Performed lots of fun and educational science demonstrations for the public
- Welcomed and oriented field trip students from across the Bay Area to the museum
- Received weekly trainings from master teachers in the Exploratorium's "Teacher Institute"

Other Skills

- Conversationally fluent in Spanish

References**Nancy Flocchini**

Assistant Principal, El Cerrito High School

Email: <nancy.flocchini@wccusd.net>

Dr. Steve Croft

UC Berkeley SETI Researcher

Email: Steve Croft <scroft@astro.berkeley.edu>

Melissa Woods

Physics and Engineering Teacher, Dos Pueblos High School

Email: <mwoods@sbunified.org>

Sal Alper

Field Trip Program Supervisor, Exploratorium

Work: 415-528-4444

Email: <salper@exploratorium.edu>