

**Elan Lavie**  
elan.lavie@wccusd.net

## **Education**

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

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

## **Experience**

### **Physics, Astronomy and Engineering Teacher**

*El Cerrito High School, El Cerrito, CA*

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

### **UC Berkeley SETI Summer Research Intern**

*UC Berkeley, Berkeley, CA*

- 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*

- 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*

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

### **Graduate Student Instructor**

*UC Berkeley, Berkeley, CA*

- 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*

- 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>