

# Dennis Lee

Phone 484-686-3882 | Email [dennisl88@berkeley.edu](mailto:dennisl88@berkeley.edu)  
Linkedin [linkedin.com/in/dennisl88](https://www.linkedin.com/in/dennisl88) | Website [dennislee.me](http://dennislee.me)

## EDUCATION

### University of California, Berkeley – Berkeley, CA

FALL 2015 - SPRING 2019

B.S., Electrical Engineering and Computer Science | GPA: 4.00

#### Coursework (*italics in progress*):

Structure & Interpretation of Computer Programs  
Practical Programming  
*Data Structures*  
*Designing Information Devices and Systems*

Linear Algebra and Differential Equations  
*Self-Paced C*  
*Discrete Math & Probability*

## EXPERIENCE

### CS61A Tutor – University of California, Berkeley

JANUARY 2016 - Present

- Tutor and Lab Assistant for the Structure & Interpretation of Computer Programs (CS61A)

### Research Assistant – Villanova University

MAY 2015 - JULY 2015

- Designed, tested, and produced nanoaquariums to study behavior of microbubbles
- Wrote in-depth tutorials on CAD and simulation software for graduate students

## PROJECTS

### Contour Map Generator

- Perlin Noise, Square-Diamond, Teleological generation algorithms, written in C++, rendered with Unity

### Strategy Game AI

- AI controls an army in a simple turn-based strategy game
- Genetic algorithm finds ideal army composition and tactics by playing against itself

### Survival Game AI

- Randomized characters face each other in an arena style deathmatch
- AI attempts to find optimal strategy based on starting stats and encounters with other characters

### Wallpaper Finder

- Python program that finds images suitable for wallpapers and website backgrounds
- Performs k-means to find clustered colors, uses clusters to determine uniformity of image.

### Shakespeare Generator

- Combines words and sentence structures commonly used by Shakespeare to generate a short dialogue

## OTHER CLASSES

Design and Analysis of Algorithms  
Advanced Algorithms

Machine Learning

## SKILLS AND INTERESTS

**Programming Languages** – Java, Python, Matlab, Scheme, C++, C

**Other Software** – Solidworks, ANSYS Fluent, Excel

**Spoken Languages** – Mandarin, Spanish

**Interests** - Soccer, Tennis, Gaming, Aquariums, Machine Learning, Artificial Intelligence