

# Dennis Lee

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

## EDUCATION

### University of California, Berkeley - Berkeley, CA

FALL 2015 - SPRING 2019

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

#### Coursework:

Structure & Interpretation of Computer Programs	Linear Algebra and Differential Equations
Data Structures	Discrete Math & Probability
Efficient Algorithms and Intractable Problems	Designing Information Devices and Systems
Artificial Intelligence	Self-paced C

## EXPERIENCE

### Student Researcher - Robot Learning Lab, University of California, Berkeley

JUNE 2016 - Present

- Built Mind Meld - interface for teleoperation of robots using virtual reality by connecting ROS and Unity
- Developed new neural network models with Tensorflow to learn policy from human controller
- System trains robots faster in more complex tasks than with traditional methods
- Used deep neural networks, multithreading, GPGPU, networking

### CS61A Tutor - University of California, Berkeley

JANUARY 2016 - MAY 2016

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

### Research Assistant - NovaNano Lab, Villanova University

MAY 2015 - JULY 2015

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

## PROJECTS

### Strategy Game AI

- AI controls an army of hundreds in a simple turn-based strategy game built in Java
- Genetic algorithm finds ideal army composition and tactics by playing against itself
- Adaptable to various map conditions (different maps, fog of war, known/unknown enemies)

### Contour Map Generator

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

### Wallpaper Finder

- Python program that searches reddit for suitable 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
- Uses Stanford JavaNLP's MaxentTagger to categorize words; story/character/setting chosen randomly

### Chrome Extension Suite

- Constantly expanding set of Google Chrome extensions that perform various menial tasks
- Exercise alarm, website blocker, champion.gg quicksearch, and several jokes

## SKILLS AND INTERESTS

**Programming Languages** - Java, Python, C#, C, C++, Matlab, Scheme, HLSL

**Other Software** - Unity, ROS, Tensorflow, Solidworks, ANSYS Fluent

**Spoken Languages** - Mandarin, Spanish

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