

Scott Lee

Berkeley, CA | scott.lee.3898@berkeley.edu | scottjlee.github.io | [Flickr](#)

Education

University of California, Berkeley

B.A., Computer Science; B.A., Statistics | 2019, 3.94

Relevant Coursework: Data Structures, Algorithms/Intractable Problems, Techniques of Data Science, Artificial Intelligence, Linear Algebra, Differential Equations, Multivariable Calculus, Discrete Math, Statistics, Probability/Random Processes

Experience

UCSF School of Nursing

Research Assistant | Aug 2017 - Present

- Applied convolutional neural networks to detect Premature Ventricular Contractions from electrocardiogram readings by recognizing ST changes.
- Built a convolutional neural network to detect Premature Atrial Contractions in order to predict unstable heart conditions.

UC Berkeley, Data 8 (Foundations of Data Science) (<http://data8.org/>)

Head Undergraduate Student Instructor | Jan 2018 - Present [Aug - Dec 2017: Undergraduate Student Instructor]

- Prepared materials, taught lab section, held office hours, and developed assignments, and facilitated class logistics.
- Managed staff, organizing exams and managing enrollment for a class of 1400+ students.

Brilliant, Inc. (brilliant.org)

Data Science / Education Intern | May 2017 - Aug 2017

- Conducted data analysis using SQL and Python on 1+ million emails to evaluate email algorithm effectiveness.
- Designed and produced curricula for "Math for Computer Science" and "Intro to Data Science" courses.

ASUC Office Of The CTO, BerkeleyTime (www.berkeleytime.com)

Data Scientist/Product Manager | Jan 2018 - Present [Jan - Dec 2017: Lead Engineer]

- Managed a medium-sized team of student developers on maintaining and developing new features for the most popular augmented course catalog at UC Berkeley (26,000+ unique users).
- Currently working on a data-centered initiative with student course data.

Technical Skills

Programming: Python (+ Pandas, Scikitlearn, TensorFlow, Apache Spark), SQL, Java

Web Development: HTML, CSS/Less, JS, jQuery, Bootstrap

Miscellaneous: LaTeX, DSLR Photography, Lightroom, Sketch

Selected Projects (more on my [website](#))

Neural Net Applications | Python

- Implemented a neural net from scratch (creating a graph class, implementing matrix operations, backpropagation, etc).
- Applied NNs to solve various problems, such as digit classification, language classification, and function approximation.

Song Classifier (<https://github.com/scottjlee/song-classifier>) | Python, Tensorflow

- Created a deep learning classifier that categorizes songs as either country or hip-hop based on lyrics frequencies.
- Achieved an accuracy rate of 89% and was selected as one of 10 winners of a 200-member Kaggle contest.

Jesture (devpost.com/software/jesture-ver-ddoski) | HTML, CSS, JS, jQuery, Bootstrap, JSON, Python

- Worked on team of 4 at Cal Hacks 3.0 to build gesture application with the Synaptics touchpad.
- Implemented API for Spotify, Slack, Facebook, and more, then linked to a sleek web UI.