LIAM TAN

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EDUCATION

University of California, Berkeley *Expected Graduation Date of 2024*
Intended Computer Science and Mathematics Double Major Overall GPA: 4.0
College of Letters and Science

EXPERIENCE

UCSD/Winsantor San Diego, California
December 2020-June 2021 *Group led by Dr.Gary Cottrell*

- This group sought to create a model that could take a digital biopsy slide and count the amount of nerve crossings within it in order to track diabetes patient nerve growth.
- Created a nerve tracing algorithm using DBSCAN clustering as well as iterative methods in order to count and confirm skin nerve crossings.

Leonardo DRS Daylight Solutions San Diego, California
October 2019 - January 2020

Implemented K-means clustering to cluster spectrographic wavelength data for a spectroscopy imaging microscope.

University of California, Berkeley Berkeley, California
September 2021 - Present

Reader for CS70, the discrete mathematics and probability class

- Grade HW/Exams and hold office hours
- Previously an academic intern - helped facilitate discussion

SELECTED PROJECTS

Gitlet(Java)

A lightweight version-control system mimicking git. Contains features for branching, remote usage, committing, and merging branches.

Enigma(Java)

A simulator for the enigma cipher machine. Can simulate any configuration of the original machine.

RELEVANT COURSES

1. Core Courses
Multivariable Calculus, Linear Algebra, Differential Equations, Discrete Mathematics and Probability Theory, Data Structures and Algorithms, Proof-Based Linear Algebra, Intro to Computer Science

2. Online Courses
Machine Learning by Stanford, Deep Learning Specialization by Deeplearning.ai, Probability - The Science of Uncertainty and Data by MITx

SKILLS

Programming skills:
Java, Python, Matlab(basic), Scheme, LaTex