

Kevin Chen



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Education

University of California, Irvine

September 2018 - June 2022

Bachelor of Science, Computer Science - specialization in AI/Machine Learning

Bachelor of Science, Biology - specialization in Neurobiology

Coursework

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|------------------------|--|-----------------------------|--|-----------------|--|----------------------------|
| Neural Networks | | Machine Learning | | Data Structures | | Operating Systems |
| Algorithm Analysis | | Statistical Modeling | | Databases | | Bayesian Statistics |
| Molecular Biology | | Physiology | | Biochemistry | | Biochemistry |

Projects

Constrained Spherical Deconvolution Tractography (CSD)

2019-Present

- Reading MRI diffusion data in C and translating it into tessellations using the CSD technique to improve quality of brain imaging
- Implementation of a response function estimator using corpus callosum data
- Evaluation of diffusion tensors to develop the coefficients of the spherical harmonics

Semantic Segmentation in Minecraft

2020

- Used Project Malmö, a platform designed for the research of artificial intelligence, to segment and classify structures in Minecraft
- Implemented a supervised neural network classifier with stratified sampling to use as references for higher accuracy and efficiency

Feature Selection and Performance Validation on a Wine Dataset

2019

- Implemented feature selection methods such as univariate selection, recursive feature elimination, and principal component analysis to classify wine by its chemical components
- Validated performance of the model using neural networks, random forest, and decision trees to compare the result

Experience

Undergraduate Research Assistant

June 2019 - Present

UC Irvine - Department of Neurobiology and Behavior

- Researching how neuropsychiatric disorders affect brain connectivity using MRI imaging
- Implementing an algorithm that determines the intrinsic connectivity of the brain by using the constrained spherical deconvolution tractography technique
- Working with a team to present findings in NeuroImage, the most prestigious MRI journal

HTML/CSS Frameworks Instructor

August 2020 - Present

Santa Ana Unified School District - Santa Ana, California

- Introduced a class of 40 students to the fundamentals of HTML, CSS, and additional frameworks, so that they can apply to their personal websites

Mobile App Development Instructor

March 2019 - June 2019

Carr Intermediate School - Santa Ana, California

- Educated 4 classes about intricacies of mobile and marketable application development
- Aided in the development of a mobile application that was presented at a showcase to real-world industry developers including those from Kingston and HyperX.

Skills and Certifications

Languages **Python, C, C++**, Java, R, HTML, CSS, **MySQL**, MIPS Assembly

Technologies **Scikit, Numpy**, Matplotlib, Bootstrap, **Linux**, OSX, Windows, Excel

Certifications Technical Support Fundamentals Course by Google, Coursera [Credential](#)



[kevinchen.github.io](https://github.com/kevinchen)



github.com/kevinchen



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