

Chaoqun(Adam) Tao

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Education

University of California - Berkeley

BACHELOR OF SCIENCE, ELECTRICAL ENGINEERING AND COMPUTER SCIENCE

Cumulative GPA: **3.862/4.0**; Dean's Honor List

Berkeley, California

Graduate by May, 2020

Experience

Researcher for <Brain Tumor Recognition using Deep Learning>

BERKELEY INSTITUTE OF DATA SCIENCE

- Use Convolutional Neural Network to distinguish health brain MRI images and those with tumors

Berkeley, California

February, 2018 – May, 2018

Academic Student Employee - Teaching Assistant

UNIVERSITY OF CALIFORNIA, BERKELEY

- Course reader for EE 16A (Designing Information Devices and Systems I)
- Grading homework and exams; helping students understand course materials

Berkeley, California

January, 2018 – May, 2018

Researcher for <Primer Design for DNA Nanotechnology>

LABORATORY OF COMPUTATIONAL BIOLOGY AND BIOPHYSICS OF MIT

- Used hash functions to design primers for asymmetric polymerase chain reaction and DNA data storage indexing sequences
- Designed a top-down algorithm for primer design
- Provided a innovative novel method for DNA data storage

Boston, Massachusetts

July, 2016 – August, 2016

Projects

Math model to Predict Clean Energy consumption in US

THE MATHEMATICAL CONTEST IN MODELING

- Use modified Grey Prediction Model with Rolling Mechanism to predict accurately the clean energy consumption in states in US
- Trained with data from past 20 years, the algorithm has an accuracy of above 95%

January 2018 - February 2018

Berkeley Course Finder

DEVELOPER

- Constructed a web crawler from scratch to quickly crawl Berkeley Academic Guide for courses that are related to the keyword
- Give a more accurate and cleaner searching result than school provided engine

October 2017

Honors & Awards

Sep. 2017 **CAL Alumni Association Leadership Award**, a 2000-dollar merit-based scholarship for student leaders at UC Berkeley

U.S.A

Courses

University of California, Berkeley:

Data Structures	January, 2018 - May, 2018
Introduction to Artificial Intelligence	January, 2018 - May, 2018
Discrete Mathematics and Probability Theory	January, 2018 - May, 2018
Designing Information Devices and Systems	August, 2017 - December, 2017

Skills

Programming	C, C++, Python, Java, SQL, Web Crawling, Deep Learning, Artificial Intelligence
Tools	Autograph, Unity
Languages	English, Chinese, French