

# 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*

### Researcher for <In Vitro Synthesis of Gene-length Single-stranded DNA>

LABORATORY OF COMPUTATIONAL BIOLOGY AND BIOPHYSICS OF MIT

- Published on *Nature*
- 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*

### 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*

## 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, Web Development

**Tools** Autograph, Unity

**Languages** English, Chinese, French