

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

- 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

Head Volunteer Teaching Assistant

iMAKE INTERNATIONAL STEAM EDUCATION CAMP

- Help carry out two PBL (Project Based Learning) courses for 40 Chinese teenagers.
- Give first insights of STEAM education to Chinese kids, and communicate with parents.

Shanghai, China

July, 2018 - August, 2018

Projects

China Stock Helper

Jun 2018 - Aug 2018

- A python-coded tool for individuals to purchase and sell more wisely in China Stock Market
- Construct a web spider to automatically grab data of certain stock from January 2017
- Use Grey Prediction Model with Rolling Mechanism to predict the future price for the stock, and calculate the error ranges. Users will be alerted when there is a price change above the customized threshold
- New stocks can be added at any time given the stock numbers

Berkeley Course Finder

October 2017

- 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

Publications & Awards

Apr. 2018 **In Vitro Synthesis of Gene-length Single-stranded DNA**, published on *Nature*

U.S.A

Sep. 2017 **CAL Alumni Association Leadership Award**, a scholarship for Berkeley student leaders

U.S.A

Courses

University of California, Berkeley:

Data Structures

January, 2018 - May, 2018

Introduction to Artificial Intelligence

January, 2018 - May, 2018

Introduction to the Internet: Architecture and Protocols

August, 2018 - December, 2018

Skills

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