

# JIMMY (JUNTAO) ZHONG

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## EDUCATION

**Carleton College**, Northfield, MN,

Expected Jun. 2023

- Bachelor of Arts. Majors: **Biology** and **Computer Science**. Cumulative **GPA: 3.88**
- Relevant Courses: Bioinformatics, Immunology, Genetics, Computational Biology, Algorithm, Data Structure, Computer System.

## EXPERIENCE

### Research Assistant

[Virtual Planetary lab](#), Carleton College, MN

Nov. 2020 – Present

- Explore causes for increasing transposase abundance in the deeper ocean by inspecting gene abundance, selective pressure ( $pN/pS$  and  $dN/dS$ ), signs for lysogenic viruses, etc.
- Analyze metagenomes, metatranscriptomes, and metagenome-assembled genomes (MAGs) recovered from the *Tara* Oceans Project using R and Python.

### Software Engineering Intern

Jun. 2021 – Present (summer full-time, part-time now)

Hewlett Packard Enterprise (HPE), Bloomington, MN

- Automated test pipelines for the [HPE supercomputer](#) operating system using Python and Shell Script.
- Wrote 10 new tests for post-install validation. Started a new pipeline for pre-install validation.

### Research Assistant

Carleton Primate Lab, Northfield, MN

Jun. 2020 – Sept. 2020

- Performed psychology experiments to investigate how cognitive failures of aging cotton-top tamarins (*Saguinus oedipus*) relate to biology events in their brains.
- Feed tamarin monkeys, wash cages, and other logistical.

Carleton Academic Technology - [DataSquad](#)

### Senior Designer

Sept. 2020 – Present

- Recorded custom [Tableau video guides](#) for 2 Carleton Political Science classes. Including the last position, I created [40+ pages of manuals](#) for R and Tableau users at Carleton College.
- Create a [collection of python scripts](#) to reshape and pipe Qualtrics longitudinal survey results into a cleaned, Tableau-ready format for data novices in Poli Sci classes.

### Curricular and Research Data Assistant

Sept. 2019 – Jun. 2020

- Program Python and R scripts to facilitate 10+ professors' research
- Tutor 30+ students (in many different areas: Calculus, Stats, Python, Tableau, Excel, etc.).
- Use Google Analytics API to monitor the traffic of about 100,000 webpages under Carleton domain and recommend removal of obsolete pages.

### Research Assistant

Murry's Lab (Cardiology Lab), University of Washington, WA

Jul. 2018 – Sept. 2018

- Perform common wet-lab work such as qPCR, DNA and RNA sequencing.
- Built an R Shiny server that queries gene expression data from the lab database and graphs it on a web-interface

## RELEVANT SKILLS

**Programming Languages:** Python | R | Shellscript | Postgresql | C | HTML/CSS | JavaScript | Java

**Languages:** Mandarin and Cantonese (native speaker); English; Intermediate Spanish

## LEADERSHIP

Chinese Club Board (organize Pan-Sino events: fold dumplings, freshman welcomes, senior farewells)

Carleton College, Northfield, MN