

Qi Zeng

Berkeley, California

qi_zeng@berkeley.edu

Q1Zeng.github.io

Education

University of California, Berkeley

Master of Engineering in Electrical Engineering and Computer Science

- Concentration: Data Science and Systems

Aug. 2023 – May 2024

Berkeley, CA

Georgia Institute of Technology

Bachelor of Science in Mathematics and Computer Science

- GPA: 3.88/4.0
- Graduated with highest honors

Aug. 2020 – May 2023

Atlanta, GA

University of Florida

Undergraduate Coursework in Mathematics

- GPA 3.86/4.0
- Transferred to Georgia Institute of Technology in August 2020

Aug. 2019 – Aug. 2020

Gainesville, FL

Research Experience

Competitive Physics Informed Neural Network

Georgia Institute of Technology

- Worked with Professor Florian Schäfer and Professor Spencer Bryngelson to incorporate a generator-discriminator framework into Physics Informed Neural Networks to solve partial differential equations for higher accuracy.
- First-author of the paper titled *Competitive Physics Informed Networks*, accepted for a poster presentation at the **International Conference on Learning Representations 2023**.

Sep. 2021 - Jan. 2023

Atlanta, GA

Work Experiences

Application Development Intern

ADP, LLC.

- Assisted full-time backend developers to decouple previously dependent projects, resulting in faster compilation for development.
- Developed multiple Jersey RESTful web service APIs in Java and integrated the APIs into the existing code base.

May. 2022 – Aug. 2022

Alpharetta, GA

Student Assistant

Georgia Institute of Technology

- Assisted Dr. Gregory Mayer with weekly office hours, evaluated over 600+ students' performance and answered students' questions in the Multivariable Calculus class.
- Assisted Prof. Anton Leykin to evaluate 100+ students' performance in the Second Course to Linear Algebra class.
- Assisted James Anderson to evaluate 80+ students' performance in the Applied Combinatorics class.

Oct. 2021 – May 2023

Atlanta, GA

Other Experiences

Google Summer of Code 2021 Participant

Jun. 2021 – Aug. 2021

Google and Integrated Ocean Observing System

Remote

- Worked with Integrated Ocean Observing System to develop a translation tool to translate ERDDAP (an opensource data server application used by oceanographic communities) to enhance data accessibility for oceanographic science communities around the globe.
- Detailed description at summerofcode.withgoogle.com/projects/#5625952861683712.

Learning Assistant

Jan. 2020 – May 2020

University of Florida

Gainesville, FL

- Volunteered to assist Dr. Stephen Adams in the Calculus I lectures.
- Supervised and mentored students to improve their understanding on calculus concepts.

Research Presentations

Zeng, Q., Kothari, Y., Bryngelson, S. H., & Schäfer, F. (2022). Competitive physics informed networks. arXiv. <http://arxiv.org/abs/2204.11144>.

- Presented a poster at the International Conference on Learning Representations 2023.
- Delivered an oral presentation at 2022 Georgia Scientific Computing Symposium.
- Delivered an oral presentation at 16th Annual Spring Undergraduate Research Symposium at Georgia Tech.
- Presented a poster at the International Conference on Learning Representations 2022 workshop on Gamification and Multiagent Solution.

Awards & Honors

Outstanding Undergraduate Researcher Award

College of Computing, Georgia Institute of Technology

Spring 2023

Faculty Honors

Georgia Institute of Technology

Spring 2021, Spring 2022, Fall 2022, Spring 2023

Dean's List

Georgia Institute of Technology

Fall 2020, Fall 2021

President's Honor Roll

University of Florida

Fall 2019, Spring 2020

Specialized Skills

Technical Skills: Python, Java, SQL, C/C++, Tableau, Machine Learning, Data Analysis

Languages Spoken: English (Fluent), Chinese (Native Speaker)