Qi Zeng

Berkeley, California   qi_zeng@berkeley.edu   Q1Zeng.github.io

Education

University of California, Berkeley   Aug. 2023 – May 2024
Master of Engineering in Electrical Engineering and Computer Science   Berkeley, CA
- Concentration: Data Science and Systems

Georgia Institute of Technology   Aug. 2020 – May 2023
Bachelor of Science in Mathematics and Computer Science   Atlanta, GA
- GPA: 3.88/4.0
- Graduated with highest honors

University of Florida   Aug. 2019 – Aug. 2020
Undergraduate Coursework in Mathematics   Gainesville, FL
- GPA 3.86/4.0
- Transferred to Georgia Institute of Technology in August 2020

Research Experience

Competitive Physics Informed Neural Network   Sep. 2021 - Jan. 2023
Georgia Institute of Technology   Atlanta, GA
- 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 **I**nternational **C**onference on **L**earning **R**epresentations 2023.

Work Experiences

Application Development Intern   May. 2022 – Aug. 2022
ADP, LLC.   Alpharetta, GA
- Assisted full-time backend developers to decouple previously dependent projects, resulting in faster compilement for development.
- Developed multiple Jersey RESTful web service APIs in Java and integrated the APIs into the existing code base.

Student Assistant   Oct. 2021 – Present
Georgia Institute of Technology   Atlanta, GA
- 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.

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 assisted Dr. Stephen Adams in the Calculus I lecutres.
- 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)