EDMUND (ED) CHEN

Personal Information

Address: 251 Mercer St #803, New York, NY 10012

Website: math.nyu.edu/~ehc7681 EMAIL: ed.chen@math.nyu.edu

PHONE: (669)-256-6622

EDUCATION

Courant Institute, New York UniversityNew York, NYPhD in Mathematics (Expected).08/2023 - 05/2028

Stanford UniversitySTANFORD, CAMS in Computational and Mathematical Engineering (On Leave).08/2022 – 08/2023

Georgia Institute of TechnologyBS in Mathematics.

ATLANTA, GA
08/2020 – 08/2022

University of California, Berkeley Berkeley, CA 08/2018 – 08/2020

RESEARCH

Mathematics, New York UniversityNew York, NYPhD Student08/2023 - Present

- Research in numerical methods for PDEs and high-performance parallel computing

Mechanical Engineering, Stanford UniversitySTANFORD, CAResearch Assistant09/2022 - 03/2022

- JAX accelerated convection-diffusion problems with Local DG methods

EECS, University of California, BerkeleyBERKELEY, CAResearch Assistant03/2019 – 12/2019

- Lightweight trajectory optimization algorithms for mass-deployed solar sails

Work

Julia Computing (now JuliaHub)CAMBRIDGE, MAModeling and Simulation Intern, JuliaSim09/2021 – 04/2022

- Pseudo-transient continuation accelerated steady-state solvers for JuliaSim

NASA SupercomputingMOUNTAIN VIEW, CAResearch Associate, Computational Aerosciences05/2021 – 08/2021Research Associate, Computational Aerosciences03/2020 – 09/2020

- Portable parallelization on heterogeneous CPU/GPU clusters

TEACHING

Grader. New York University MATH-GA 2020: Numerical Methods II *	Spring 2025
TA. Stanford University	
CS 246: Mining Massive Datasets * †	Spring 2023
CS 448B: Data Visualization *	Winter 2023
CS 149: Parallel Computing [†]	Autumn 2022
Head TA/TA. Georgia Institute of Technology	
CSE 6242: Data and Visual Analytics * †	Spring 2022
CSE 6242: Data and Visual Analytics * +	Fall 2021
Grader. Georgia Institute of Technology	
Math 6321: Complex Analysis *	Spring 2022
Grader. University of California, Berkeley	
Math 121A: Mathematical Methods for Physical Sciences I	Fall 2021
Math 121B: Mathematical Methods for Physical Sciences II	Spring 2021
Math 185: Complex Analysis	Fall 2020
* Graduate Courses	
† Large Courses (150+ students)	
Other	
Courant Student Organization. VP	08/2024 - 08/2025
Space Technologies at California. Control Systems Engineer Quantumn Gyroscope CubeSat awarded \$300k by NASA CSLI, launched early 2	01/2020 - 12/2020 2022.
Buzzbook Course Platform. Founder	06/2020 – 03/2022
Course discovery platform at Georgia Tech.	,,
Tzu Chi Charity Foundation. Volunteer	05/2017 - 08/2022

Software and Languages

 $Python, Julia, Matlab, C, C++, SML, Java, JavaScript, OpenMP, MPI, CUDA, SQL, Spark, \LaTeX.$