ARJUN SETHI-OLOWIN

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EDUCATION

PHD IN APPLIED MATHEMATICS, UNIVERSITY OF WASHINGTON, SEATTLE

SEPTEMBER 2023-PRESENT

-GPA: 3.9

BACHELOR OF ARTS, RICE UNIVERSITY

AUGUST 2020-MAY 2023

-Majored in Mathematics and Computational and Applied Mathematics (CAAM)

-GPA: 3.89

BACHELOR OF SCIENCE, UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

AUGUST 2019-MAY 2020

EXPERIENCE

RESEARCH ASSISTANT, PROFFESOR MATTHIAS HEINKENSCHLOSS

AUGUST 2022 - MAY 2023

- -Participating in Professor Heinkenschloss' weekly research group meetings.
- -Involved in a parameter estimation project for neurons. My contributions include implement the 2 compartment Pinsky-Rinzel model in Python and solving for the parameters using Pyomo.

STUDENT RESEARCHER, EMORY REU/RET

MAY 2022 - JULY 2022

-Implemented and compared three methods of solving optimal control problems on the continuous mountain car problem.

RESEARCH ASSISTANT, PROFFESOR JESSE CHAN, DR. MARIO BENCOMO

JANUARY 2022 - MAY 2022

-Worked with Professor Chan and Dr. Bencomo on utilizing the Finite Difference Method for Partial Differential Equations with varying time-stepping methods.

ORIENTATION WEEK ADVISOR, RICE UNIVERSITY

AUGUST 2021 - MAY 2022, AUGUST 2022 - PRESENT

-A direct student resource to a group of new students for orientation week as well as over the course of the entire school year including academic and well-being support.

RICE LEARNING ASSISTANT, RICE CAAM DEPARTMENT

JANUARY 2021 - PRESENT

- -A teaching assistant in CAAM 210 at Rice University.
- -Preparing and presenting material in weekly lectures, grading student material, hosting office hours.

GIS STUDENT ASSISTANT, RICE FONDREN LIBRARY GIS DATA CENTER

JANUARY 2021 - PRESENT

- -GIS support for ImagineRio, a searchable digital atlas that illustrates the social and urban evolution of Rio de Janeiro.
- -Developing and teaching courses on GIS tools at Fondren Library to Rice students and the public.

RESEARCH ANALYST, HEALTH SOLUTIONS RESEARCH

JUNE 2019 - SEPTEMBER 2019, JUNE 2018 - AUGUST 2018

INTERN, NATIONAL INSTITUTES OF HEALTH (NIH)

JUNE 2017 – AUGUST 2017

-Independent research on the Effect of Szechuan Pepper on the Zebrafish Lateral Line System, Dr. Chitnis' lab.

RELEVANT COURSEWORK

2023-2024

AMATH 515: Fundamentals of Optimization

AMATH 561: Intro to Probability and Random Processes

AMATH 563: Inferring Structures of Complex Systems

AMATH 567: Applied Complex Analysis

AMATH 568: Advanced Methods for ODEs

AMATH 584: Applied Linear Algebra

AMATH 585: Boundary Value Problems AMATH 585: Numerical Methods for PDEs AMATH 590: Gradient Flows

AWARDS AND HONORS

EMORY 2022 REU FIRST PRIZE POSTER UIUC 2019 FALL DEAN'S LIST

SKILLS

MS SUITE, ARCGIS, MATLAB, PYTHON, PYTORCH, TENSORFLOW, PYOMO, CVXPY, LATEX, TABLEAU