Matthew Portman

Contact

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github.com/
MatthewPortman

Programming Languages

Bash
LaTex
Python
Fortran
MATLAB
OpenMP/MPI/CUDA

Education

2017–Pres.	Ph.D. Candidate in Computational Science San Diego State University & University of California, Irvine	GPA: 3.77

Relevant Coursework
- Problems in Computational Science
- Advanced Computational PDE
- Research Ethics Seminar
- Scientific Computing
- Parallel Computing
- Machine Learning
- Optimization

2012–2016	B.S. in Physics University of Texas at Dallas	GPA: 3.65

Research Experience

2019–Pres.   **Research Assistant** under Dr. Wayne Hayes   University of California, Irvine
Modeling Galaxies
- Utilize optimization methods to model galactic light profiles via GALFIT.
- Develop an algorithm to pipe results from spiral arm detection algorithm, SpARcFiRe, into GALFIT in order to automate galactic structure parameterization.

2017–2019   **Research Assistant** under Dr. Fridolin Weber   San Diego State University
Neutron Star Simulation
- Simulated complex physical interactions inside Neutron Stars using Fortran.

2015   **Undergraduate Research Assistant** under Dr. Benjamin Sargent   Rochester Institute of Tech
Research Experience for Undergraduates (REU)
- Developed a classification algorithm to find stars in photometry of galaxies.

Work Experience

2019–Pres.   **Teaching Assistant**   University of California, Irvine
Intro to Coding - Python
- Taught and developed interactive coding assignments in Python.
- Evaluated student success and.

2017   **Adjunct Faculty**   Collin County Community College
Mathematics Professor
- Taught and developed interactive course material.
- Assessed student success and modified course curricula.

Publications and Awards

2019   **URA Visiting Scholar Program/Award**   Fermilab
Award granted to perform collaborative research with Fermilab.

2019, 2021   **Proceedings: ACCESS Conference**   San Diego State University
Poster presentation of research done with Dr. Wayne Hayes.

2016   **Proceedings: 227th AAS Conference**   Kissimmee Florida
Poster presentation of research done for REU.

2017–2019   **Graduate S-STEM Fellowship.**   San Diego State University

2012–2016   **Academic Excellence Scholarship**   University of Texas at Dallas