Matthew Portman

Contact

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Websites:-
GitHub
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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 *Relevant Coursework*	GPA: 3.77

- 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 *Modeling Galaxies*	University of California, Irvine

- Utilize optimization methods to model galactic light profiles via GALFIT.
- Develop an algorithm to pipe results from spiral arm detection algorithm, SpAR-cFiRe, into GALFIT in order to automate galactic structure parameterization.

2017-2019	**Research Assistant** under Dr. Fridolin Weber *Neutron Star Simulation*	San Diego State University

- Simulated complex physical interactions inside Neutron Stars using Fortran.

2015	**Undergraduate Research Assistant** under Dr. Benjamin Sargent *Research Experience for Undergraduates (REU)*	Rochester Institute of Tech

- Developed a classification algorithm to find stars in photometry of galaxies.

Work Experience

2017	**Adjunct Faculty** *Mathematics Professor*	Collin County Community College

- Taught and developed course material.
- Assessed student success and modified course curricula.

2014–2016	**Tutor → Supervising Tutor** *Mathematics Tutor*	University of Texas at Dallas

- Assisted students and moderated discussion of course material.
- Organized meetings with professors and conducted reviews for exams.
- Expanded tutoring program functionality as supervisor through workshops, self-assessments, and social events.

Publications and Awards

2018, 2019	**Proceedings: ACCESS Conference** Poster presentations.	San Diego State University
2016	**Proceedings: 227th AAS Conference** Poster presentation.	Kissimmee Florida
2020	**DTEI Summer Fellowship**	University of California Irvine
2017 – 2019	**Graduate S-STEM Fellowship.**	San Diego State University
2012 – 2016	**Academic Excellence Scholarship**	University of Texas at Dallas