Matthew Portman

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Programming Languages

IDL
Perl
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

- 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

Total GPA: 3.65

Current GPA: 3.77

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, SpAR-cFiRe, 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

2017 **Adjunct Faculty**

Collin County Community College

Mathematics Professor

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

2014-2016 Tutor \rightarrow Supervising Tutor

University of Texas at Dallas

Mathematics Tutor

- · 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

| 2019 | Proceedings: ACCESS Conference Poster presentation of research done with Dr. Wayne Hayes. | San Diego State University |
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| 2018 | Proceedings: ACCESS Conference Poster presentation of research done with Dr. Fridolin Weber. | San Diego State University |
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2016 **Proceedings: 227**th 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