Matthew Portman

Education Contact Mobile no:-2017-Pres. Ph.D. Candidate in Computational Science GPA: 3.77 +1-214-240-0280 San Diego State University & University of California, Irvine Relevant Coursework Email:-- Problems in Computational Science Matthewportman Advanced Computational PDE @yahoo.com - Research Ethics Seminar Scientific Computing Website:- Parallel Computing github.com/ Machine Learning MatthewPortman - Optimization 2012-2016 B.S. in Physics GPA: 3.65 **Programming** University of Texas at Dallas Languages

Research Experience

Bash

LaTex Python Fortran

MATLAB

OpenMP/MPI/CUDA

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** → **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

2018, 2019	Proceedings: ACCESS Conference Poster presentations.	San Diego State University
2016	Proceedings: 227 th 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