Matthew Portman

Contact	Education		
Mobile no:- +1-214-240-0280	2017-Pres.	Ph.D. Candidate in Computational Science San Diego State University & University of California	GPA: 3.77
Email:- portmanm @uci.edu		Relevant Coursework - Advanced Computational PDE - Parallel Computing - Machine Learning	
GitHub:- github.com/ MatthewPortman	2012-2016	OptimizationB.S. in PhysicsUniversity of Texas at Dallas	GPA: 3.65
Programming Languages	Researc	h Experience	
Languages ATEX Bash Python Fortran MATLAB OpenMP/MPI/CUDA	2019-Pres.	Research Assistant under Dr. Wayne Hayes <i>Modeling Spiral Galaxies</i>	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. 	
	2021-Pres.	Visiting Scholar under Dr. Antonella Palmese <i>Multi-Messenger Astronomy</i>	Fermilab
		 Identify transients from multi-messenger sources using DESI observations and correlate to confidence intervals of gravitational wave localization maps. 	
	2021	Graduate Intern under Drs. Pete Anninos & Rob Hoffman Lawrence Livermore National Lab <i>Binary Accretion Simulation</i>	
		 Simulate hyper-accretion inflow onto the surface of neutron stars from a binary companion using COSMOS++ to predict observational signature. 	
	2017-2019	Research Assistant under Dr. Fridolin Weber Neutron Star Simulation	San Diego State University
		– Simulated hyperdense matter inside Neutron S	Stars using Fortran.
	Work Experience		
	2019-Pres.	Teaching Assistant Intro to Coding - Python — Teach and develop interactive coding assignment	University of California, Irvine
	2017	Adjunct Faculty Mathematics Professor	Collin County Community College
	Highlighted Publications and Awards		
	2021-Pres.	LSSTC Data Science Fellow Award granted to supplement data science instruct	Northwestern University ion in Astronomy.
	2021	URA Visiting Scholar Program/Award Award granted to perform collaborative research wi	Fermilab th Fermilab.
	2019, 2021	Proceedings: ACCESS Conference Poster presentation of research done with Dr. Wayn	San Diego State University de Hayes.
	2017-2019	Graduate S-STEM Fellowship. Award granted to provide mentorship and research	San Diego State University
	2015	Research Experience for Undergraduates Research award granted to perform research under	Rochester Institute of Technology

Research award granted to perform research under Dr. Benjamin Sargent.