Matthew Portman

Contact	Education		
Mobile no:- +1-214-240-0280	2017-Pres.	Ph.D. Candidate in Computational Science San Diego State University & University of Californi Relevant Coursework	GPA: 3.77
Email:- portmanm @uci.edu		 Advanced Computational PDE Parallel Computing Machine Learning Optimization 	
GitHub:- github.com/ MatthewPortman	2012-2016	B.S. in Physics University of Texas at Dallas Astrophysics Specialization	GPA: 3.65
Programming Languages	Researc	h Experience	
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 galact Develop an algorithm to pipe results from spir cFiRe, into GALFIT in order to automate galact 	al arm detection algorithm, SpAR-
	2021-Pres.	Visiting Scholar under Dr. Antonella Palmese Multi-Messenger Astronomy 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 Binary Accretion Simulation — 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 — Simulated hyperdense matter inside Neutron	San Diego State University Stars using Fortran.
	Work Ex	perience	
	2019-Pres.	Teaching Assistant Intro to Coding - Python — Teach and develop interactive coding assign	University of California, Irvine ments in Python.
	2017	Adjunct Faculty Mathematics Professor — Taught and developed interactive course ma	Collin County Community College
	Publications and Awards		
	2021	URA Visiting Scholar Program/Award Award granted to perform collaborative research w	Fermilab
	2019, 2021	Proceedings: ACCESS Conference Poster presentation of research done with Dr. Way	San Diego State University
	2017-2019	Graduate S-STEM Fellowship. Award granted to provide mentorship and research	San Diego State University
	2016	Proceedings: 227 th AAS Conference Poster presentation of research done for REU.	Kissimmee Florida
	2015	Research Experience for Undergraduates Page 27th award granted to perform research under	Rochester Institute of Technology

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