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, Irvi	GPA: 3.77
Email:- portmanm @uci.edu	2012-2016	B.S. in Physics University of Texas at Dallas	GPA: 3.65
GitHub:- github.com/	Research Experience		
MatthewPortman	2019-Pres.	Research Assistant under Dr. Wayne Hayes <i>Modeling Spiral Galaxies</i>	University of California, Irvine
Programming Languages C++		 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. 	
ETEX Bash Python SLURM Fortran MATLAB OpenMP/MPI/CUDA	2021-Pres.	Research Assistant under Dr. Antonella Palmese <i>Multi-Messenger Astronomy</i>	Fermilab, LBL
		 Identify transients from multi-messenger sources using DESI observations and correlate to confidence intervals of gravitational wave localization maps. 	
	2021, 2022	Graduate Intern under Drs. Pete Anninos & Rob Hoffman <i>Binary Accretion Simulation</i>	LLNL
		 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 <i>Neutron Star Simulation</i>	San Diego State University
		- Simulated hyperdense matter inside Neutron Stars using Fortran.	
	Work Experience		
	2019-Pres.	Teaching Assistant Intro to Coding - Python — Teach and develop interactive coding assignment	University of California, Irvine s in Python.
	2017	Adjunct Faculty Mathematics Professor	Collin County Community College
	Highligh	ted Publications and Awards	
	Sept. 2023	A Re-Assessment of SpArcFiRe's Performance on Toy Spiral Gomes. M. Portman and S. Mesforoush and W. Hayes.	alaxies MNRAS
	2021-Pres.	LSSTC Data Science Fellow Award granted to supplement data science instruction i	Northwestern University n Astronomy.
	2021	URA Visiting Scholar Program/Award Award granted to perform collaborative research with Fe	Fermilab ermilab.
	2019, 2021	Proceedings: ACCESS Conference Poster presentation of research done with Dr. Wayne Ha	San Diego State University ayes.