## Matthew Portman

Contact	Educatio	n
Mobile no:- +1-214-240-0280	2017-Pres.	Ph.D. Candidate in Computational Science San Diego State University & University of California, Irvine
Email:- portmanm @uci.edu		Relevant Coursework  - Advanced Computational PDE  - Parallel Computing  - Machine Learning
GitHub:- github.com/ MatthewPortman	2012-2016	- Optimization  B.S. in Physics  University of Texas at Dallas  GPA: 3.65
Programming Languages	Researc	n Experience
C++	2019-Pres.	<b>Research Assistant</b> under Dr. Wayne Hayes  Modeling Spiral Galaxies  University of California, Irvine
Bash Python Fortran		<ul> <li>Utilize optimization methods to model galactic light profiles via GALFIT.</li> <li>Develop an algorithm to pipe results from spiral arm detection algorithm, SpARcFiRe, into GALFIT in order to automate galactic structure parameterization.</li> </ul>
MATLAB OpenMP/MPI/CUDA	2021-Pres.	<b>Research Assistant</b> under Dr. Antonella Palmese Fermilab, LBL <i>Multi-Messenger Astronomy</i>
		<ul> <li>Identify transients from multi-messenger sources using DESI observations and correlate to confidence intervals of gravitational wave localization maps.</li> </ul>
	2021, 2022	<b>Graduate Intern</b> under Drs. Pete Anninos & Rob Hoffman  Binary Accretion Simulation
		<ul> <li>Simulate hyper-accretion inflow onto the surface of neutron stars from a binary companion using COSMOS++ to predict observational signature.</li> </ul>
	2017-2019	<b>Research Assistant</b> under Dr. Fridolin Weber  Neutron Star Simulation  San Diego State University
Email:- portmanm @uci.edu  GitHub:- github.com/ MatthewPortman  Programming Languages  C++ LATEX Bash Python Fortran MATLAB		– Simulated hyperdense matter inside Neutron Stars using Fortran.
	Work Ex	perience
	2019-Pres.	<b>Teaching Assistant</b> Intro to Coding - Python — Teach and develop interactive coding assignments in Python.
	2017	Adjunct Faculty  Mathematics Professor  Collin County Community College
	Highligh	ted Publications and Awards
	2021-Pres.	<b>LSSTC Data Science Fellow</b> Northwestern University  Award granted to supplement data science instruction in Astronomy.
	2021	<b>URA Visiting Scholar Program/Award</b> Award granted to perform collaborative research with Fermilab.
	2019, 2021	<b>Proceedings: ACCESS Conference</b> San Diego State University Poster presentation of research done with Dr. Wayne Hayes.
	2017-2019	<b>Graduate S-STEM Fellowship.</b> San Diego State University Award granted to provide mentorship and research opportunities.
	2015	Research Experience for Undergraduates Research award granted to perform research under Dr. Benjamin Sargent.