Bryson **STEMOCK** Data Scientist

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📑 Skills

Languages Tools ML Methods Personal	Python, R, SQL, HTML, C++ NumPy, Pandas, SciKit-Learn, Tensorflow, SciPy, Matplotlib, Seaborn, mlxtend, ggplot2, PySimpleGUI Neural Networks, Linear/Logistic Regression, Random Forest, Decision Trees, K-means Clustering, Spectral Clustering, GMM, DBSCAN, Association Rules, Local Outlier Factor, Isolation Forest Communication, Critical Thinking, Debugging, Independent Thinking, Internal Motivation, Teaching, Team Orientation, Time Management, Troubleshooting, Tutoring
🛑 Work E	XPERIENCE
-	 2019 Graduate Assistant, New Mexico State University > Convolutional Neural Network design and implementation on quasar absorption line spectra > Management and analysis of large data sets > Author and Coauthor journal publications and grant proposals > Clear, concise research presentation (conference talks and posters)
	Machine Learning Data Analysis Galaxy Evolution Teaching Public Outreach
	 2021 APO Science Symposium Webmaster, APACHE POINT OBSERVATORY 2021 Creation and management of interactive website, YouTube channel, and Zenodo archive for a virtual conference. This facilitated registration, poster submission and display, and an interactive schedule. > Local Organizing Committee member; virtual conference planning and logistics > Virtual presentation session technical support
	Interactive Web Design Virtual Conference Planning
0	 2016 Undergraduate Research Assistant, YOUNGSTOWN STATE UNIVERSITY 2019 > Dwarf galaxy survey (led to a refereed publication) > Statistics analysis of student outcomes in STEM statistics courses (led to a refereed publication) > Management of several projects in parallel > Data management and analysis
	Extragalactic Astronomy Optical Physics Statistics
E FIRST-A	uthor Publications

Jun 2024Deep Learning Voigt Profiles. I. Single-Cloud Doublets
B. Stemock, C. W. Churchill, & A. Lee et al., Astronomical JournalNov 2020On the equitable total (k + 1)-coloring of k-regular graphs
B. Stemock, Rose-Hulman Undergraduate Mathematics Journal

NATIONAL HONORS AND AWARDS

2021 - 2024 NSF Graduate Research Fellowship, National Science Foundation

Awarded to facilitate groundbreaking research applying machine learning to quasar absorption line spectroscopy. The NSF GRFP recognizes and supports outstanding graduate students in NSF-supported STEM disciplines.

Education

Expected 2025	Ph.D., Astrophysics
	New Mexico State University
2024	Master of Data Analytics
	New Mexico State University
2023	M.S., Astrophysics
	New Mexico State University
2019	B.S., Physics & Astronomy, Mathematics, summa cum laude
	Youngstown State University