

BRANDON J GRIFFIN

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EXPERIENCE

Lawrence Berkeley National Laboratory, Berkeley, CA Feb 2021 to Present
Data Analysis - Freelance Project

- Established infrastructure for automated reporting and ongoing analytics by developing an interactive dashboard.
- Built open-source visualization tools for validating data quality and generating data-driven insights. [GitHub](#)

General Assembly, San Francisco, CA Sep 2020 to Dec 2020
Data Scientist - Apprenticeship

- Reddit Natural Language Processing
 - Created API calls to gather hundreds of thousands of submissions from two similarly themed subreddits, then employed machine learning algorithms to predict the origin of each.
- Democratizing Autonomous Vehicle R&D (Group Project)
 - Accelerated artificial neural network training, via GCP cloud solutions, to simulate self-driving cars. [GitHub](#)

Lawrence Berkeley National Laboratory, Berkeley, CA Oct 2015 to Sep 2019
Laboratory Affiliate, *Chemical Sciences Division*

- Executed a high attention to detail and employed effective quantitative reasoning through contributions to seven experiments, in association with the University of Nevada, over a four year period, resulting in four research publications.

U.S. DOE Office of Science, Berkeley, CA Jun 2018 to May 2019
Research Fellow, *Advanced Photo-injector Experiment*

- Applied statistical methods to investigate potential sources of insight for compatibility with existing technological limitations, and prioritized those most optimally suited for quantitative analysis.
- Collaborated across cross-functional teams, fabricating improvements to cutting-edge data-acquisition systems and improving scalability of automated data processing techniques.
- Presented insights to major stakeholders at the 50th Annual Meeting of the American Physical Society Division of Atomic, Molecular and Optical Physics.

Nevada System of Higher Education, Reno, NV

Jun 2016 to May 2018

Graduate Research Assistant, *Atomic Molecular and Optical Science Group*

- End-to-End Engineering: Spearheaded design, construction, and deployment of a \$500,000 computational imaging apparatus, culminating in successful commissioning, by demonstration of overall performance, through approved experiments at a U.S. National Laboratory.
- Implemented critical understanding of interacting components, and functional impact each had on overarching system functionality, through contributions to experiment design and technical documentation.

EDUCATION

MS from University of Nevada Reno, Physics

Aug 2019

Advisor: Dr. Joshua B Williams

GPA: 3.50

BS from University of Nevada Reno, Physics

May 2014

Minor in Math with courses in Probability Theory

SKILLS

Analytics Toolbox: statistical inference and modeling, loss function analysis, multivariable calculus, statistical mechanics, real-time analytics, linear transformations.

Programming and Technology: Python, Pandas, Sklearn, Matplotlib, Seaborn, Plotly-Dash, Tableau, Jupyter, PTC Creo, Excel, PostgreSQL.