MORGAN T. CHIDESTER

Astrophysics P.h.D.

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WORK EXPERIENCE

Data Scientist

July 2023 - June 2025

Sorenson Communications

- Provided robust data that saved company substantial amount of money in legal expenses
- Built and productionalized multiple machine learning forecasts in Databricks and deployed in Snowflake and AWS S3 buckets for internal customer usage
- Miscellaneous data science projects regarding cost analysis, product and customer analysis (i.e. customer activity, churn analysis), Data Engineering tasks, computational statistics, data cleaning, data transfer, and data visualization
- Presented data analytics to stakeholders
- Built PowerBI reports for data and forecast monitoring

Adjunct Physics Instructor

Jan 2023 – May 2023

Grand Canyon University, Maricopa Community College

- Instructed University students for College Physics course
- Prepared lectures, lab materials/experiments, created exams

PhD Research Candidate

Jan 2021 – Jun 2023

Arizona State University

- Computational stellar astrophysics research for PhD
- Published in professional journal (Astrophysics Journal, ApJ)
- Presentations of research at national and international conferences
- Python programming, data analysis, data visualization, fortran programming, HPC computing for parallel modeling
- Designed and taught computational stellar astrophysics labs for MESA summer school events
- Educational research on ASU's *Habworlds* course using RStudio

Astrophysics Researcher

May 2017 - Aug 2019

Los Alamos National Laboratory

- Computational astrophysics research
- Data analysis and visualization with python, matplotlib, yt
- Presentations of research at invited talks

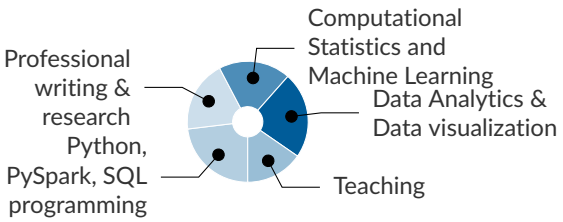
STRENGTHS

Tenacious | Creative | Resourceful | Confident | Personable | Resilient

HOBBIES

Long Distance Running | Muay Thai | Youth Leader for Church | 4wheeling with husband | Cooking

OVER-ALL EXPERIENCE



TOOLS

Python, PySpark, SQL, Fortran	●●●●●
Matplotlib, yt toolkit, plotly	●●●●●
Pandas, jupyter lab, scikit-learn	●●●●○
Databricks	●●●●○
Snowflake, AWS	●●●○○
Overleaf/LateX	●●●○○
Excel, RStudio	●●●○○
MESA Stellar Evolution Code	●●●●○

EDUCATION

PhD Astrophysics, GPA-4.0

Arizona State University, 2023

Bachelor of Science, Applied Mathematics, GPA-3.9

Southern Utah University, 2019