

# Landon Buskirk

## WORK EXPERIENCE

### ***MSU Honors College Professorial Assistant***

Facility for Rare Isotope Beams – Theoretical Nuclear Physics  
Sept. 2022 – May 2023; Sept. 2023 – Present, East Lansing, MI

- Launched the Bayesian Mass Explorer web app using Python, HTML, and CSS, to provide open-source data retrieval, visualization, and uncertainty quantification for several nuclear data sources
- Submitted publication analyzing the capture of subshell closures between experimental data and theoretical models
- Publicized my research and web app through an oral presentation given at the APS Division of Nuclear Physics conference in Hawaii

### ***Student Research Assistant***

Facility for Rare Isotope Beams – Theoretical Nuclear Physics  
May – Aug. 2023, East Lansing, MI

- Slashed uncertainty quantification expense by engineering a neural network architecture in Python that learned normalizing flows for posterior distributions, emulating slow Monte-Carlo sampling
- Produced visualizations and identified evidence of subshell closures through signal detection, validating theoretical methods

### ***Data Entry Clerk/Warehouse Employee***

Delphi Glass

June – Aug. 2021, June – Aug. 2022, Lansing, MI

- Constructed a marketing database using Excel, granting the company 42,000+ easily identifiable clients
- Stocked, pulled, manifested products while cooperating with a team of 12 to ensure timely delivery for customers

## ADDITIONAL PROJECTS

### ***MoneyTalk Financial Education***

Aug. 2023 – Present

- Founding a business to provide an accessible web and mobile app to teach financial literacy in an engaging, simplified, and gamified way
- Driving development of the web app using Figma to collaboratively plan, Canva to design graphics, JavaScript (React) along with HTML and CSS to create the front-end, and AWS Amplify to implement the back-end

### ***Analyzing the Fractal Dimension of Abelian Sandpiles***

Sept. 2022 – Apr. 2023

- Programmed simulations of math structures (sandpiles) in Python revealing fractal dimension properties across different lattices
- Presented a collaborative poster on novel research at UURAF, an undergraduate research forum at Michigan State University

## CONTACT

📍 Mason, MI

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🌐 [landonbuskirk.com](http://landonbuskirk.com)

🌐 [LinkedIn](#)

🌐 [GitHub](#)

## EDUCATION

### ***Michigan State University*** ***B.S. Data Science***

Sept. 2022 – May 2025  
East Lansing, MI

*Honors; Minor in Physics;*  
*GPA: 4.0; State Scholarship;*  
*Alumni Distinguished*  
*Scholarship Finalist*

## SKILLS

Python (*Pandas, Plotly, TensorFlow, Scikit-learn*)

R (*Tidyverse, ggplot*)

Git

SQL

Data Visualization

Machine and Deep Learning

Statistical Analysis

High-Performance Computing

Web Development (*HTML, JavaScript, CSS, React*)

AWS Amplify

Canva, Figma

