

# Maxwell Hanson

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## Work Experience

### University of Wisconsin, Madison

Undergraduate Research Assistant

Madison, WI

Aug. 2021 - Dec. 2021

- Analyzed and visualized X-ray data using MATLAB and Python
- Applied machine learning to X-ray data using the caret package in R

### McGregor Metalworking Co.

Summer Marketing Intern

Springfield, OH

May 2018 - Aug. 2018

- Developed promotional video cards for a marketing campaign
- Used Excel to catalogue inventory of machined parts

## Education

### University of Wisconsin, Madison

B.S. in Mathematics, Physics

Madison, WI

Aug. 2019 - May 2023

- Relevant Courses: Statistics, Calculus (I, II, III), Differential Equations, Linear Algebra, Applied Mathematical Analysis, Data Science Programming and Modeling

### Shawnee High School

High School Diploma

Springfield, OH

Aug. 2015 - Jun. 2019

## Technical Skills

### Programming

MATLAB, Python, R, SQL

### Professional Software

Microsoft Office, Stata,  $\LaTeX$

### Language

English (Native)

## Projects

### Personal Website

Owner

Madison, WI

Aug. 2022 - Sep. 2022

- [githubmaxds.github.io](#)
- Portfolio, About Me, Blogs

### Predicting Madison, WI Weather with Machine Learning

Author

Madison, WI

Sep. 2022

- [🔗 Predicting Weather with ML \(Link\)](#)
- Used sklearn to apply Ridge regression to weather data from the Dane County Regional Airport in Python

## Awards and Honors

Jan. 2019

**National Competition:** National Merit Commended Scholar

2018-2019

**Organization Membership:** National Honor Society

May 2018

**Skills Certificate:** ACT WorkKeys NCRC Platinum