CHRIS CALLENDER

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PROFILE

Recent mathematics graduate with interest in sports analytics. Experience with programming languages such as R, Python (including libraries such as pandas, seaborn, numpy, matplotlib, Scikit-Learn, and TensorFlow), SQL, Tableau, and LaTeX as well as statistics, machine learning, and programming. Very hard worker with excellent problem solving skills, communication skills, a high attention to detail, and teaching experience.

EDUCATION

Quinnipiac University, Hamden, CT May, 2023
Bachelor of Arts, *Mathematics,* Minor in *Economics*
Cumulative GPA: 3.98, *Summa Cum Laude*
James Fickes Award for Mathematical Excellence
Philosophy Honor Society

RELATED ACTIVITIES

(Additional projects on my github, kaggle, youtube, and portfolio website)

Sabermetrics Research

- Completed this project for my senior mathematics course at Quinnipiac using R and Excel
- Gathered data and used methods such as Principal Component Analysis (PCA) to determine the greatest player of all-time, as well as the best metrics to assess player value
- Worked with professors to discuss findings and share information
- Presented my research to professors and students using visually appealing statistical graphs

Advanced MLB Metrics

- Gathered and cleaned data, using R, on advanced metrics, such as WAR, wOBA, andwRC+
- Determined that wOBA, wRC+, and OPS+ are the best predictors of hitting ability
- Created a machine learning model to predict WAR
- Used LaTeX to write a research paper, including visualizations, to present my findings

MLB Pitching Data

- Collected and analyzed pitching data using R, and examined Devin Williams' poor start to 2025
- Determined the most important metrics for pitchers are ERA, FIP, xERA, and xFIP
- Researched how those metrics are calculated
- Used t tests and calculated coefficient of correlation to determine which variables, such as exit velocity and strikeout rate, have the greatest impact on those metrics

Data Visualization in Python

- Used Python to analyze data of earthquakes, wildfires, and temperatures, as well as create a dice rolling simulator
- Used libraries such as matplotlib, plotly, numpy, and pandas
- Created bar graphs, time series graphs, and maps showing earthquake and wildfire locations and sizes

RELATED COURSEWORK

Applied Statistics Machine Learning Econometrics Math Modeling Real Analysis

SKILLS

Microsoft Excel, LaTeX, R, Python, SQL, Tableau, Problem Solving, Communication, Attention to Detail

ADDITIONAL EXPERIENCE

Substitute Math Teacher, North Branford High School, North Branford, CT March 2025-May 2025

- Taught Algebra and Geometry to freshmen and sophomores
- Helped students learn by promoting a safe and comfortable classroom environment

Big Y, North Branford, CT September 2018-Present

- Responsible for keeping the store safe and clean, as well as promoting a friendly and enjoyable shopping experience for customers