

EDUCATION

Wheaton College

B.S. in Applied Mathematics

- Cumulative GPA: 3.77
- NCAA Division III Baseball Player, Team Captain

Wheaton, IL

August 2020 - May 2024

WORK EXPERIENCE AND PROJECTS

Wheaton College

Teaching Assistant for Linear Algebra

- Offered help sessions weekly for students to work on projects, homework, or review tests

August - December 2022

Reds Hackathon Project

- Collaborative advanced data analysis working with large data sets of MLB statistics. Used predictive modeling to estimate which pitchers would be better suited in a new role.

February 2024

Primetime Baseball Tournament

Staff

- Collected gate fees and uploading final scores for accurate standings
- Ensured teams had equipment necessary for games to run smoothly, fielded questions from team managers and players

May – August 2021

Study on 2023 MLB Disengagements Rule/Effects on Base Stealing

- Calculated an Expected Runs matrix using Retrosheet play-by-play event files for the 2022 MLB season
- Used Ronald Acuña Jr.'s stolen base percentage from 2023 to calculate expected run value for the scenario Acuña Jr. is attempting to steal second with no outs.
- Modeled the effects of the new rule using the game theory concept of a finitely repeated game of imperfect information, solved for equilibrium payoffs and strategies for both the pitcher and Ronald Acuña Jr.

December 2023

Potential Buy Candidates Dynasty Fantasy Football Article

- Manipulated multiple NFL datasets in R
- Analyzed expected fantasy points and realized fantasy points to identify potential buy candidates in dynasty fantasy football
- Graphically displayed relevant information using GGplot

ADDITIONAL INFORMATION

Programming languages: R, Python

Proficient in Excel