

## EDUCATION

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### 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

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### 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 ggplot2

## ADDITIONAL INFORMATION

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*Programming languages: R, Python*

*Proficient in Excel*