

# Jacob Richey

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## Portfolio

**Website** <https://jacobrichey.github.io>  
**Twitter** @Richey\_Jacob  
**GitHub** @jacobrichey

## Academics

### University of Pennsylvania Class of 2021

Candidate for major in Economics, B.A.

Candidate for minors in Statistics, Data Science, and Computer Science.

## Experience

### New York Mets, UNDERGRADUATE RESEARCH ASSISTANT

September 2019 – March 2020

I worked as an in-season, part-time research assistant for the New York Mets, building player analysis tools to assist the front office in personnel decisions and player evaluation.

### University of Pennsylvania Wharton, RESEARCH INTERN AND TEACHING ASSISTANT

June 2018 – July 2020

For three summers, I managed a team of teaching assistants for the Wharton run program called Moneyball. I aided teaching rising high school juniors and seniors statistical concepts and R computer programming within the context of sports analysis. Outside of the classroom, I led on-campus and off-campus activities for the students and served as liaison between the Residential Director and the TA staff and program students.

**Project in R:** In June 2019, I was fortunate to have the opportunity to work with Professor Wyner in the statistics department on an MLB player analysis research project called playerElo, which can be found published on my website, <https://jacobrichey.github.io>, and at:

<https://community.fangraphs.com/playerelo-factoring-strength-of-schedule-into-player-analysis/>  
<https://jrichey.shinyapps.io/playerelo/>

*\* Runner-Up in the Carnegie Mellon Sports Analytics Reproducible Research Competition \**

### Designer Greek, WEBSITE DESIGNER

June 2017 – June 2018

Over the summer of my senior year of high school and extending into my freshman year of college, I designed and managed a website for the custom clothing company, Designer Greek, using the Magento e-commerce platform (written in PHP).

## Clubs & Extracurriculars

### STAT 102, 422, 613 Teaching Assistant

Fall 2019 – Present

### Penn Sports Research Group

Fall 2018 – Present

### Penn Data Science Club

Fall 2017 – Present

## Skills & Coursework

### Statistics and Data Science

#### Proficient in R, Python, SQL and Statistical Analysis

CIS 419: Applied Machine Learning  
CIS 545: Big Data Analytics  
CRIM 402: Criminal Justice Data Analytics  
LGST 242: Big Data, Big Responsibility  
MGMT 265: Culture of Technology  
STAT 399: Sports Analytics Research Seminar  
STAT 405: Statistical Analysis in R  
STAT 430: Probability  
STAT 431: Statistical Inference  
STAT 471: Modern Data Mining

### Computer Science

#### Experienced with Java and Algorithm Design

CIS 120 / CIS 160 / CIS 121 / CIS 262

### Mathematics

#### Calculus and Linear Algebra

MATH 104 / MATH 114 / MATH 240