

# Justin B. Long

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## Technical Skills

**Languages:** Python, R, SAS, SQL, Java, MATLAB, C++, Git

**Other Skills/Certifications:** Excel Specialist Expert Certification, Microsoft Office, LaTeX

## Graduate Education

**The Ohio State University, Columbus, OH**  
Master of Science in Statistics

**Attended:** August 2019 - Present  
**Graduated:** December 2021

## Experience

**The Ohio State University, Columbus, OH**

**August 2019 - Present**

Graduate Teaching Assistant, Department of Statistics

- Instructor for an undergraduate statistics course of approximately 115 students
- Led recitations for undergraduate statistics courses
- Provided drop-in tutoring for statistics courses

**Highmark Health, Pittsburgh, PA**

**May 2018 - August 2018**

Actuarial Intern, Revenue Program Management Analytics

- Constructed automated processes to calculate a Medicare patient's health
- Built model to summarize and forecast factors pertaining to the Medicare population

**Slippery Rock University, Slippery Rock, PA**

**August 2017 - May 2019**

Tutor, Department of Mathematics and Statistics

- Provided drop-in tutoring for intermediate and advanced mathematics courses

## Research and Presentations

- *Simulating Major League Baseball Games*
  - SAS Global Forum 2018, Denver CO. Oral Presentation.
  - INFORMS Annual Meeting 2018, Phoenix AZ. Oral Presentation.
- *Optimizing Pitcher Rotations*
  - INFORMS Annual Meeting 2018, Phoenix AZ. Oral Presentation.
- *Predicting MLB Game Outcomes*
  - IFORS 2017, Quebec City. Oral Presentation.
- *Fantasy Football Score Projection through Sentiment Analysis and Statistical Learning*
- *Visualizing Major League Baseball Batter and Pitcher Weaknesses*
- *Implementing NeuroEvolution of Augmenting Topologies (NEAT) in Robocode*

## Undergraduate Education

**Slippery Rock University, Slippery Rock, PA**

**Attended:** August 2015 - May 2019

**Major:** Mathematics

**GPA:** 3.95

**Minors:** Statistics, Actuarial Science

**Academic Awards and Scholarships:**

Graduated Summa Cum Laude

Senior Presidential Scholar, 2018 (Top 20 in class)

Outstanding Mathematics Senior

## Relevant Course Topics as of Spring 2022

### Graduate

Elements of Statistical Learning

Generalized Linear Models

Design & Analysis of Experiments

Statistical Theory I & II

Bayesian Analysis & Decision Theory

Theory of Stochastic Processes

Applied Linear Regression

Advanced Computational Statistics

### Undergraduate

Data Mining\*

Statistical Modeling & Computing\*

Artificial Intelligence

Forecasting & Time Series Analysis\*

**\*Denotes a course taken in Slippery Rock's Master of Science in Data Analytics Program**