

# Carson Slater

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## SUMMARY

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Motivated graduate student seeking consulting opportunities. Research interests include loss functions, Markov chain Monte Carlo methods, or causal inference. Seeking to pursue a statistical consulting role post-graduation.

## PROJECTS

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### Forecasting Demand With Generalized Additive Models

[Link to Github](#)

- Built time-series forecasting models to predict quantity-demanded for fast-moving consumer goods in Indonesia.
- Presented poster at University of Illinois – Chicago’s 2022 [Undergraduate Mathematics Symposium](#) and Wheaton College’s 2022 Homecoming STEM Poster Session.

### Understanding and Modeling Predictors to Earned Run Average in Modern Major League Baseball

- Conducted variable selection using predictors from the Lahman baseball database to model Earned Run Average using regression analysis. Used the same predictors to build a single-layer neural network and a radial support vector regression model in R/RStudio.

## EDUCATION

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2023 - 2024	<b>M.S. Statistics</b> Baylor University, Waco, TX	(GPA: 3.90/4.0)
2019 - 2023	<b>B.S. Applied Mathematics with Statistics</b> <b>B.A. Economics</b> Wheaton College, Wheaton, IL <i>Edman Presidential Scholarship</i>	(GPA: 3.46/4.0)

## SKILLS

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Software:	Docker, Linux, R/RStudio, Python, SAS, Stata, C, SQL, $\text{\LaTeX}$ , JavaScript, CSS, HTML.
Relevant Coursework:	Theory of Statistics, Statistical Methods, Computational Statistics, Numerical Analysis, Linear Algebra for Data Analysis, Mathematical Statistics, Machine Learning, Probability Theory, Real Analysis, Intensive Introduction to Computer Science ( <i>Harvard</i> ), Econometrics, Economics of Labor and Poverty.

## EMPLOYMENT

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### Graduate Assistant

August 2023 - present

*Baylor University Department of Statistical Science*

- Lead four supplemental instructorship sections per week for Baylor’s Introduction to Statistical Methods course (STA 2381).

## Academic Coach

January 2023 - Mar 2023

*Wheaton Academy Center for Lifelong Learning*

- Mentored students 1-on-1 per their request to teach, review, and sharpen their math skills. I met with students ranging in courses from Algebra I to AP Statistics to help them prepare for their exams, whether it's ones for courses or AP exams.

## Mathematics Teaching Assistant

August 2022 - May 2023

*Wheaton College Department of Mathematics and Computer Science*

- Served as Applied Machine Learning TA (MATH 465) from December 2022 to present, and the Probability Theory TA (MATH 363) from August 2022 to December 2022.
- Graded weekly homework assignments and hosted weekly help sessions for students.

## Participant

June 2022 - July 2022

*Duke/North Carolina State University Summer Institute for Biostatistics*

- Participated in several classroom discussions to engage standard biostatistical methods and areas of study at Duke Clinical Research Institute and North Carolina State University.
- Culminated in a Hackathon studying and modeling myocardial infarction and associated complications. [Link to Github](#) for our Hackathon project.

## VOLUNTEER

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### Intern

June 2023 - August 2023

*Křesťanská Akademie Mladých*

- Support-raised for four months and built a [blog](#) from scratch to keep supporters in the loop.
- Lived and worked in in the Czech Republic for two and a half months while assisting local CB churches by teaching English and sports in schools and at camps.
- Onboarded and trained short-term mission teams from the U.S. and Ireland who staffed English camps.

## HONORS/AWARDS

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### Varsity Baseball Player

August 2019 - May 2022

*Wheaton College Athletics, NCAA*

- Practiced baseball six days a week for multiple hours and played over forty-games during the spring semester.

### Christian Character Award

May 2019

*Valley Christian High School, Chandler AZ*

- This award is extended to one graduating Senior at Valley Christian High School who, in their four years at the institution, has most consistently exemplified Christ-like character, lived above reproach, and exhibited a passion for the gospel.