Carson Slater

 Github | LinkedIn | My Page | ✉ carsonslater7@gmail.com | 📱 +1.480.320.8898

SUMMARY

Motivated graduate student Interests include loss functions, markov chain Monte Carlo methods, or causal inference. Seeking to become a machine learning engineer post-graduation.

PROJECTS

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

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

SKILLS

Software:	Docker, Linux, R/RStudio, Python, SAS, Stata, C, SQL, 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 (*Harvard*), Econometrics, Economics of Labor and Poverty.

EMPLOYMENT

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

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

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.