Carson Slater

https://carsonslater.github.io/portfolio2022/
1571 W Thompson Way
Chandler, AZ, 85286
+1 (480) 320-8898

SUMMARY

Motivated undergraduate student seeking to gain professional work experience with quantitative and qualitative analytical methods. Strongly interested in studying machine learning, Bayesian methods or causal inference. Seeking to enter a Statistics PhD program in the fall of 2023. Self-disciplined former NCAA athlete. Quick learner who seeks to contribute to any research institution for whom he works.

EDUCATION

B.S. Applied Mathematics with Statistics — May 2023
B.A. Economics — 3.41/4.00 GPA
Wheaton College, Wheaton, IL
Edman Presidential Scholarship

RELEVANT COURSEWORK

Mentored Research Seminar, Numerical Analysis, Linear Algebra for Data Analysis, Experiences in Data Analysis, Mathematical Statistics, Machine Learning, Probability Theory, Real Analysis, Intensive Introduction to Computer Science (*Harvard*), Economics of Labor and Poverty.

TECHNOLOGY SKILLS

Software Languages: R/RStudio, SAS, Python, C, SQL, LaTeX, JavaScript, CSS, HTML.
Languages: Intermediate Koine Greek and Spanish (Classroom Study).

EXPERIENCE

Probability Theory Teaching Assistant — August 2022-Present
Wheaton College Department of Mathematics and Computer Science

- Hosted help sessions for students to come with questions on the homework or class content.
- Was available for email correspondence with homework questions outside of help session hours.

Participant — June 2022-July 2022
Duke/North Carolina State 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 investigating and modeling myocardial infarction and associated complications.

Data Analyst — June 2020-July 2020
Wheaton College Center for Vocation and Career

- Tidied and analyzed data from Wheaton College's Class of 2020 as a project for Wheaton College's Center for Vocation and Career.
- Utilized Microsoft Excel and survey data to determine the post-graduation outcomes by state, major, and gender.

PROJECTS   *Forecasting FMCG Demand Using Generalized Additive Models*   November 2022

- 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   May 2022

- 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.

Does the Universal DH Have a Significant Impact on Offensive Productivity?
     May 2022
- Utilized a difference-in-differences approach to compare the 2019-2021 MLB season where 2020 uniquely featured a universal designated hitter (DH). Found through one-way ANOVA the universal DH had an insignificant impact on offensive productivity.

Hill Cipher Cryptography with Matrices   May 2021

- Utilized a Hill Cipher to encode and decode messages. Wrote a brute force Python Program to decode $2 \times n$ matrices.

EXTRA-CURRICULAR VOLUNTEER   *ESL Instructor*   August 2022

Josiah Venture Czech Republic
- Taught conversational English classes, functional fitness and computer programming concepts in Scratch to Czech teens at a summer English camp near a small city on the border of Poland and the Czech Republic, called Český Těšín.

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.

Strongholds Group Leader   August 2021 - May 2022

Wheaton College Discipleship Ministries
- Partnered with a co-leader to develop curriculum for a small group of 14 men who met once a week for teaching. Facilitated a safe space for fellowship and open discussion.

Sophomore Class Council Administrator   August 2020 - May 2021

Wheaton College Student Government
- Wrote agendas for meetings and managed large-scale projects as an administrator. Managed the class budget and delegated responsibilities for class assemblies. Created a survey to gauge on-campus mental health during the fall 2020 semester.