Sofia Gray

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Work Experience

Preceptorship

University of Arizona - Tucson, AZ
January 2022 to Present

• Preceptor for DATA 367 - Sports Analytics
• Assisted students in learning how to code in R
• Assisted students in learning data analysis methods, such as simple, multiple, and logistic regression, simulating games, and web-scraping
• Assisted students in their group projects where they explore a sports analytics idea and perform data analysis

Math 100 Undergraduate Teaching Assistant

University of Arizona
August 2020 to Present

● Mentored students by working with them one on one to help them further develop their mathematical understanding and application of mathematical skills
● Engaged with students and attentively listened to their concerns regarding mathematics
● Used critical thinking skills to suggest solutions or provide a new perspective or point of view to a broad idea or concept
● Developed tutoring skills that allow me to tailor my tutoring approaches to each individual as needed
● Formed professional relationships with students by listening and communicating with them effectively to build a sense of trust between tutor and student

Teacher Assistant for Astronomy

University of Arizona - Tucson, AZ
January 2020 to May 2020

● Attended class lectures to provide support and feedback to students
● Held office hours in which students were advised and helped with class topics
● Attended weekly meetings with supervisor to provide overview on lecture topics

Private Tutoring

August 2017 to May 2018

● Self-employed math tutor
● Voluntarily tutored students in math
● Math subjects included algebra, geometry, and pre-calculus

Data Analysis Projects

DATA 367 - Sports Analytics

• Developed a generalized linear model to predict winners at Wimbledon using data from the 2019 season of the Women's Tennis Association

DATA 375 - Introduction to Statistical Computing
• Used analytical methods learned in class to analyze light pollution in several countries around the globe and how it pertained to the country's location, development, and other environmental factors

DATA 467 - Applied Linear Models
• Developed multiple linear regression and logistic regression models to find out whether or not it was able to predict heart disease
• Used a variety of categorical and quantitative explanatory variables imported from a dataset containing statistical information about patients who had heart disease

Education

Bachelor of Science in Statistics and Data Science

The University of Arizona - Tucson, AZ
August 2018 to May 2022

Skills

- Bilingual (English and Spanish)
  RStudio and Python
- Algebra
- Regression Analysis
- Tutoring
- Statistics
- R
- Calculus
- Geometry