ETHAN CAVAZOS

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EDUCATION

The University of Texas at Austin	Bachelor of Science, Computational Biology, 3rd Year Minor: Chinese Language Certificate: Scientific Computation and Data Sciences	Dec. 2021
	Additional Coursework in Genetics, OChem 1 – Adv OChem, Bioinformatics, Elements of Computing and Programming, Physical Chemistry, Differential Equations	
	GPA: 3.32	

EXPERIENCE

UT Dept. of Molecular Biosciences – Genetics Teaching Assistant under *Dr. Janice Fischer*   January 2019 - Present
- Lead discussion section of up to 25 students
- Assist students in understanding relevant coursework and homework
- Hold office hours to meet with students from any class section
- Take detailed notes to supplement SSD students' learning

UT Information Technology Customer Support Services – *Student Consultant*   July 2019 - Present
- Provide for first-level contact, incident handling, and request fulfillment for a variety of IT and business services for the University through written and oral communication
- Utilize advanced troubleshooting skills and administrative tools

UT Sanger Learning Center– *Undergraduate Tutor*   January 2019 – August 2019
- Assisted students in coursework for: Organic Chemistry 1&2, Genetics, Integral and Differential Calculus
- Aided in understanding course material
- Advised students on effective study habits

ACADEMIC PROJECTS

SDS 348: Data Wrangling and Exploration in RStudio   Fall 2019
- Exemplified trends in terrorist group data from the Global Terrorism Database
- Tidied dataset using core Dplyr functions
- Utilized GGplot to produce visual aids

SDS 348: Modeling, Testing, and Predicting Data in RStudio   Fall 2019
- Ran statistical analyses on Marijuana-arrestee data provided by the Toronto Police Dept.
- Conducted a MANOVA testing, univariate ANOVAs, t-tests randomization tests
- Built linear regression model to predict a response variable based on tests for assumptions (homoskedasticity, linearity, normality)
- Built linear regression model with bootstrapped standard errors for comparison
- Performed logistic regression predicting binary categorical variable from explanatory variables
  - Computed and interpreted confusion matrices, Accuracy, TPR, TNR, PPV, as well as performed a 10-fold cross validation
- Performed a LASSO regression using all variables as predictors

LEADERSHIP

Texas Students Against Gun Violence – *co-Founder*   Spring 2018 – Fall 2019
- Drafted and created organization structure
- Advertised to and recruited members via presentations, flyers, tabling
- Scheduled organization meetings

Awards

- Undergraduate Studies Exploration Grant - $1.15k   Summer 2018

ADDITIONAL INFORMATION

Computer Skills: RStudio, Python, MS Excel, Word, PowerPoint, Canvas, Service-Now
Languages: Conversational Spanish, Basic Chinese, Basic French