BRIAN T. FENG UNIVERSITY OF TEXAS AT AUSTIN

B.S COMPUTATIONAL BIOLOGY (3rd Year) Cumulative GPA: 3.5/4

with Elements of Computing and Computational Science and Engineering Certificates

Personal Information: E-mail: brianfeng717@utexas.edu // LinkedIn: https://www.linkedin.com/in/brianTfeng

LANGUAGES & SKILLS

Programming Language
Python, R, SQL, HTML

Relevant Data Tools
Git Version Control, R ggplot2 & dplyr, MS Excel, Python Pandas & NumPy

Machine Learning
Clustering, Classification, Regression, Statistical Modeling, Rarefaction/Extrapolation Curves

Soft Skills
Leadership, Team Management, Public Speaking, Critical Thinking, Adaptability, Creativity, Enthusiasm

WORK EXPERIENCE

Data Science Intern [June 2020 ~ Present]
Covid-19 Research Initiative at NCTU, Taiwan
- Applied machine learning clustering algorithms and statistical models to better understand how political covariates affect the Covid-19 survival trends in the US.
- Responsible for all data: cleansing, transformation, normalization, integration, visualization, and analysis; final data had over 23 million data entries, 30+ variables, and 1000+ sources.
- Processed censored patient data through KM survival analysis and CIF function.

Statistics Research Assistant [May 2020 ~ Present]
RA for Dr. Anne Chao at the Institute of Statistics in NTHU, Taiwan
- Helped publish multiple biodiversity analyses R packages based on the Good–Turing theory for coverage standardization, allowing for comparisons of rarefaction/extrapolation results across distinct samples.
- Acted as the software Beta-tester and ran simulations to check the efficiency and accuracy of statistical models with the Bootstrap method.

Python Teaching Assistant [May 2020 ~ Sep 2020]
Taught classes remotely due to Covid-19
- Taught Object-Oriented Programing in Python to rising college freshmen.

PROJECTS

Data Cleaning Simplified [R] [Nov 2018 ~ Mar 2019]
Created an interactive website with R functions that allow users to effortlessly make adjusments to their data

Simulation Adventure Game [Python] [Jan 2017 ~ May 2017]
Created a text-based adventure game that allows users to explore customizable room maps and room items

AWARDS & EXTRACIRRICULARS

Improve UT Innovation Challenge [Nov 2018 ~ Mar 2019]
Finalist at the annual innovation challenge held by the UT Student Government, Austin, Tx

Rube Goldberg Machine Competition [Jan 2017 ~ May 2017]
Third place in the international Rube Goldberg competition held by Technion University, Israel

Texas Men's Volleyball Team [Sep 2019 ~ Present]
Silver Medal in the 2019 Texas College Classics Men's Volleyball Tournament at College Station, Tx

Student Council Vice President/Secretary [Sep 2016 ~ Jun 2018]
High School Student Council Officer Position