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LICCAR	Fawcett
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E-mail: ozfawcett@gmail.com Pittsburgh, PA Phone: (910)-540 0263 Last Updated: Oct. 2024 Website: oscarfawcett.github.io Education **University of Pittsburgh** Pittsburgh, PA PhD in Statistics Aug. 2023 - Present **University of North Carolina at Chapel Hill** Chapel Hill, NC Aug. 2020 – Dec. 2022 B.S. in Statistics and Analytics, Data Science Minor With Distinction **Cape Fear Community College** Wilmington, NC Associates in Science Aug. 2017 – Dec. 2019 President's Award **Statistical Consulting Biological Science** Oct. 2024 • Consulted about the experimental design that will be Pittsburgh, PA implemented for the analysis of duckweed under various conditions **Rehabilitation Science** Oct. 2024 Advised on how best to analyze data for the study of the Pittsburgh, PA factors that impact upper limb use Sept. 2024 **Otolaryngology** • Developed statistical models to predict postoperative Pittsburgh, PA pulmonary complications in head and neck cancer patients to be used in clinical settings **Material Science** Aug. 2024 Assisted in optimally fitting Brillouin curves and provided Pittsburgh, PA insights on how to develop a pipeline to predict alloy compositions with certain desired properties Research Experience Aug. 2024 - Present **Graduate Researcher** Dept. of Statistics University of Pittsburgh Supervised by Dr. Chris McKennan, I studied cell free DNA fragment data collected from patient plasma to infer celltype of origin with applications in disease diagnosis **Undergraduate Researcher** May 2022 - May 2023 Dayan Lab **UNC-Chapel Hill** Supervised by doctors Eran Dayan and Nicolas Fraiman, I performed research on the statistical methods used to fingerprint subjects based on fMRI data of their brain **Undergraduate Researcher** Aug. 2021 - Dec. 2021 Dept. of Statistics and Operations Research **UNC-Chapel Hill**

• Supervised by Dr. Nicolas Fraiman, I performed research and analysis on graph clustering

Publications

Fawcett, O. "Defining Probabilities Over the Prime Numbers." *Pittsburgh Interdisciplinary Mathematics Review*, (Accepted 2024)

Presentations

Title: Identifying Individuals from Brain Connectivity Networks
Using Graph Measures of Similarity

Dec. 2023
Pittsburgh, PA

Presented during the University of Pittsburgh's Department of

Statistics Graduate Student Seminar series

Title: *How To Take an Introductory Statistics Course*Presented as part of the Cape Fear Community College Lunch and

Wilmington, NC

Learn series

Title: *How To Take a Math Test*Presented as part of the Cape Fear Community College Lunch and Wilmington, NC

Learn series

Title: Identifying Individuals from Brain Connectivity Networks

Using Graph Measures of Similarity

Oct. 2022

Greensboro, NC

Presented at the 2022 NanoImpacts Undergraduate Research

Symposium

First Place Award Winner

Teaching Experience

Teaching Fellow
Dept. of Statistics
Aug. 2024 - Present
University of Pittsburgh

• Supported course instructors of STAT 1000 and 1223 courses by grading assignments and hosting office hours

Teaching AssistantDept. of Statistics
Aug. 2023 - Aug. 2024
University of Pittsburgh

• Provided assistance to course instructors of STAT 200 and 1223 courses by grading assignments, running recitations, and hosting office hours

Professional Math Tutor

Guided 20+ students weekly through learning objectives in various math courses from algebra and statistics to derivative

and integral calculus

Supplemental Instructor
Learning Lab

• Conducted instructional sessions throughout the semester by leading additional lectures and offering student support in conjunction with ongoing statistics, calculus, and pre-calculus

course content

Volunteer Math Tutor

Nixon Minority Male Leaders

 Assisted students from underrepresented backgrounds in academia by providing individual tutoring sessions for various mathematics courses Spring 2020, Spring 2021 Cape Fear Community College

Cape Fear Community College

Aug. 2018 - May 2021

Aug. 2019 - April 2020 Cape Fear Community College

Technical Skills

Statistics: generalized linear models, multivariate models, principal component analysis, linear programming, ANOVA, network analysis and algorithms, various machine learning models and techniques such as neural networks, support vector machines, random forests, cross validation, and feature selection.

Software: Python, R, MATLAB, AMPL, Maple, LaTex, Qualtrics

Activities and Awards

Awards	
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Arts and Sciences Summer Fellowship: \$3000	Aug. 2024
First place, NanoImpacts Undergraduate Research Symposium	Oct. 2022
CFCC President's Award	Dec. 2019
CFCC Academic Achievement Award	April 2019

Activities

Panel moderator, Keystone State Statistics Symposium	Oct. 2024
Graduate Student Seminar Organizer	Sept. 2023 - Present
Tau Sigma Honors Society	April 2022
Phi Theta Kappa Honors Society	Jan. 2018