

Oscar Fawcett

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Pittsburgh, PA
Last Updated: Nov. 2024

Education

University of Pittsburgh
PhD in Statistics

Pittsburgh, PA
Aug. 2023 - Present

University of North Carolina at Chapel Hill
B.S. in Statistics and Analytics, Data Science Minor
With Distinction

Chapel Hill, NC
Aug. 2020 – Dec. 2022

Cape Fear Community College
Associates in Science
President's Award

Wilmington, NC
Aug. 2017 – Dec. 2019

Research Experience

Graduate Researcher
Dept. of Statistics

Aug. 2024 - Present
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
Dayan Lab

May 2022 - May 2023
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
Dept. of Statistics and Operations Research

Aug. 2021 - Dec. 2021
UNC-Chapel Hill

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

Statistical Consulting

Student Organization

Nov. 2024
Pittsburgh, PA

- Analyzed survey data from the Giving A Boost pre-med student mentorship program and communicated the results to clients without a statistical background

Biological Science

Oct. 2024
Pittsburgh, PA

- Consulted about the experimental design that will be implemented for the analysis of duckweed under various conditions

Otolaryngology

Sept. 2024
Pittsburgh, PA

- Developed statistical models to predict postoperative pulmonary complications in head and neck cancer patients to be used in clinical settings

Material Science

Aug. 2024
Pittsburgh, PA

- Assisted in optimally fitting Brillouin curves and provided insights on how to develop a pipeline to predict alloy compositions with certain desired properties

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* April 2023
Presented as part of the Cape Fear Community College Lunch and Learn series Wilmington, NC

Title: *How To Take a Math Test* Mar. 2023
Presented as part of the Cape Fear Community College Lunch and Learn series Wilmington, NC

Title: *Identifying Individuals from Brain Connectivity Networks Using Graph Measures of Similarity* Oct. 2022
Presented at the 2022 NanoImpacts Undergraduate Research Symposium Greensboro, NC
First Place Award Winner

Teaching Experience

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

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

Teaching Assistant Aug. 2023 - Aug. 2024
Dept. of Statistics 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 Aug. 2018 - May 2021
Learning Lab Cape Fear Community College

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

Supplemental Instructor Spring 2020, Spring 2021
Learning Lab Cape Fear Community College

- 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 Aug. 2019 - April 2020
Nixon Minority Male Leaders Cape Fear Community College

- Assisted students from underrepresented backgrounds in academia by providing individual tutoring sessions for various mathematics courses

Activities and Awards

Awards

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

Chair and 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

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