

Oscar Fawcett

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Education

University of Pittsburgh
PhD, Statistics

Pittsburgh, PA
Aug. 2023 - Present

University of North Carolina at Chapel Hill
*Bachelor of Science, Statistics and Analytics, Data Science Minor
With Distinction*

Chapel Hill, NC
Aug. 2020 – Dec. 2022

Cape Fear Community College
*Associate in Science
President's Award*

Wilmington, NC
Aug. 2017 – Dec. 2019

Research Experience

Department of Statistics
Graduate Researcher

University of Pittsburgh
Aug. 2024 - Present

- Designing inferential models on cell-free DNA data for applications in non-invasive disease diagnostics
- Ad hoc consulting for university faculty, staff, and graduate students on statistical methodologies for projects across disciplines

Dayan Laboratory

UNC-Chapel Hill
May 2022 - May 2023

Undergraduate Researcher

- Investigated network measures of similarity and their performance on identifying 100+ subjects based on their fMRI brain images

Department of Statistics and Operations Research

UNC-Chapel Hill
Aug. 2021 - Dec. 2021

Undergraduate Researcher

- Analyzed the capabilities of graph clustering algorithms on 25+ real-world datasets in comparison to a novel method

Presentations

Title: Estimating Cell Type Proportions of cfDNA Samples Using the Fragmentome
Keystone State Statistics Symposium

Philadelphia, PA
Oct. 2025

Title: Identifying Individuals from Brain Connectivity Networks Using Graph Measures of Similarity
University of Pittsburgh's Department of Statistics Graduate Student Seminar

Pittsburgh, PA
Dec. 2023

Title: Identifying Individuals from Brain Connectivity Networks Using Graph Measures of Similarity
*NanoImpacts Undergraduate Research Symposium
First Place Award Winner*

Greensboro, NC
Oct. 2022

Publications

O. Fawcett, “Defining Probabilities Over the Prime Numbers”, *Pittsburgh Interdiscip. Math. Rev.*, vol. 2, pp. 49–58, Dec. 2024.

Teaching Experience

Department of Statistics

Teaching Fellow

University of Pittsburgh

Aug. 2024 - Present

- Sole instructor of a 6-week Applied Statistical Methods course over the Summer 2025 term to 23 undergraduate students; developed lecture material, assessments, and course curriculum
- Supported course instructors of Basic Applied Statistics, Applied Statistical Methods, Applied Regression, and Sports Analytics courses by grading assignments, hosting recitations, and holding office hours as sole TA

Department of Statistics

Teaching Assistant

University of Pittsburgh

Aug. 2023 - Aug. 2024

- Assisted the instruction of Basic Applied Statistics and Applied Regression courses by guiding undergraduate students through lab assignments, providing assessment feedback, and creating course material summaries

Learning Lab

Professional Math Tutor

Cape Fear Community College

Aug. 2018 - May 2021

- Guided 20+ students weekly through learning objectives in all offered mathematics and statistics courses at Cape Fear Community College
- Conducted supplemental instruction sessions for Statistical Methods, Calculus I, and Calculus II courses with 25+ students

Nixon Minority Male Leaders

Volunteer Math Tutor

Cape Fear Community College

Aug. 2019 - April 2020

- Assisted students from underrepresented backgrounds in academia by providing individual tutoring sessions for Statistical Methods, Algebra I, Algebra II, and Calculus I courses

Activities and Awards

Awards

Kenneth P. Dietrich School of Arts and Sciences Summer Fellowship: \$3000

Summer 2025

Henry W. Block Award for Outstanding Junior PhD Student

April 2025

Kenneth P. Dietrich School of Arts and Sciences Summer Fellowship: \$3000

Summer 2024

First place, NanoImpacts Undergraduate Research Symposium

Oct. 2022

Cape Fear Community College President's Award

Dec. 2019

Cape Fear Community College Academic Achievement Award

April 2019

Activities

Invited panelist, Keystone State Statistics Symposium

Oct. 2025

Department of Statistics Graduate Student Organization Representative

Feb. 2024 - Present

Mentor, Lab for Analyzing Pitt Sports (LAPS)

Nov. 2024 - Present

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

Skills: Mathematical theory for uncertainty quantification, regression analysis, machine learning, signal processing, empirical Bayes methods, network analysis, factor analysis, numerical optimization

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