

Quest L. Whalen

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Education

Doctorate of Population Health, Biostatistics & Data Science

GPA: 4.00

Tuskegee University
Tuskegee, AL

Expected Graduation: Spring 2025

Masters of Population Health, Biostatistics & Data Science

GPA: 3.76

University of Mississippi Medical Center (UMMC)
Jackson, MS

Graduation Date: May 22, 2021

Bachelor of Science, Mathematics

GPA: 3.89

Tuskegee University
Tuskegee, AL
Summa Cum Laude

Graduation Date: May 11, 2019

Research & Work Experience

Department of Pediatric Research Fellow, UMMC

2022 – Present

Advisor: Dr. Norma Ojeda

- Study community interventions to improve breastfeeding rates among African American mothers
- Method: logistic regression
- Implemented using R Software

Summer Research, UMMC

2021 – Present

Advisor: Dr. Jeannette Simino

- Apply logistic regression to analysis the relationship between inflammation biomarkers and Dementia-Free in the oldest old
- Multisite analysis
- Implemented using SAS

NIH Project SCORE, UMMC

2021 – Present

Advisor: Dr. Caroline Compretta

- Engage high school students from groups underrepresented in STEM career trajectories
- Served as a near peer mentor
- Developed and co-led public health curriculum
- Facilitated student health research

Health Policy Fellowship, UMMC

January – June 2023

Advisor: Dr. Fazlay Farque

- Engaged with Mississippi legislative process to follow health policy

Data Manager and Statistical Consultant, Glenn Family Foundation

January 2022 – 23

Supervisor: Dr. Helen Beady & Dr. Mary Coleman

- Study purpose is to enhance teachers' knowledge of and capacity to teach goal-setting strategies and health and social behaviors that can increase positive lifestyle outcomes
- Managed data collection and entry with Apricot Social Solution
- Built reports to inform effects of implemented curriculum

Summer Research, UMMC**Summer 2021**

Advisor: Dr. Seth Lirette

- Cardiometabolic Risk and Aggressive Prostate Cancer in African-American and White Men
- Apply survival analysis techniques to quantify burden of cardiometabolic risk factors on prostate cancer for men collectively and stratified by race in ARIC dataset
- Implemented using STATA

Student Research, UMMC**Spring 2021**

Mentor: Dr. Hamidreza Moradi

- Extract and parse 2010 US census dataset for CDC public data
- Analysis patterns in census tract level social vulnerability index
- Apply cluster machine learning algorithms: DBScan and OPTICS
- Implemented using Python

Summer Research, UMMC**Summer 2020**

Advisor: Dr. Rajesh Talluri

- Applied statistical network to analysis degrees of connectivity
- Analyzed genetic relationships from network structure
- Implemented using R Studio

NSF MAKERS Scholar Program

Advisors: Dr. Mohammed Qazi & Dr. Yasmeen Rawajfih

2017 - 19

- Collaborated with varying STEM Fields
- Coded a mobile application to improve on campus communications
- Programmed sensors to connect with raspberry pi to detect interruption from mail delivery
- Presented mobile application development to STEM scholars at 2018 MAKERS Conference
- Implemented using AppInventor and Python

Harvard's T.H. Chan Biostatistics & Computational Biology Fellowship**Summer 2018**

Advisor: Dr. Kimberlee Gauvreau

- Developed a risk adjustment model with logistic regression
- Analyzed international data on congenital heart surgery
- Computed odds ratio, c-statistic, Hosmer-Lemeshow value
- Implemented using R programming

**Tuskegee University and
National Science Foundation Fly High Program****2016 - 18**

Advisor: Dr. Chadia Affane Aji

- Coordinated summer workshops for high school students
- Develop workshops to apply algebraic and geometrics concepts to physics and aeronautics
- Arranged activities intended to gather data for future research

Conferences and Presentations

ASA International Conference for Health Policy Statistics

January 2023

Workshops: (1) National Center for Health Statistics: Realizing the Power of Data through Linkages, (2) Structural Equation Modeling with Health Data, (3) Introduction to Social Network Analysis and Network Science Methods

Mississippi Public Health Association Epidemiology Section	September 2022
ASA MS-AL Regional Conference	April 2022
School of Population Health Biostatistics & Data Science Department UMMC Journal Club	December 2021
Lecture Presentation: "Inflammation and Dementia-Free Survival in the Oldest Old"	
25 th Summer Institute in Statistical Genetics, University of Washington Scholarship Recipient	June 2020
Workshops: (1) Introduction to Genetics and Genomics, (2) Gene Expression Profiling, and (3) Pathway & Network Analysis for Omics Data	
Joint LSAMP/S-STEM Conference Tuskegee, AL	April 2019
Poster Presentation: "Skegee Way Mobile App"	
Field of Dreams Travel Scholarship Recipient	October 2018
Harvard's T.H. Chan Biostatistics & Computational Biology Summer Research Symposium	July 2018
Presentation: "International Quality Improvement Collaborative for Congenital Heart Surgery: Refining and Applying a Risk Adjustment Model"	

Technical Skills

R Studio Programming
 Python Programming
 Stata Programming
 SAS Programming
 SQL
 Machine Learning
 Modeling
 Statistics
 Computational and Theory Mathematics

Training and Certifications

NIH Information Security and Management	
CITI Biomedical Responsible Conduct of Research	July 2022 – July 2025
CITI Human Research, Biomedical Research Investigators and Key Personnel	June 2021 – May 2024

Teaching Experience

Tutor	2016 – 19
Tuskegee Center of Academic Excellence and Innovative Learning	
– Lead Math tutor	

- Coordinated tutorial sessions and workshops in basic math and higher-level math
- Tutored seven different math courses starting with college algebra up to differential equations
- Standardized the center's math intake information
- Catalogued the center's data

Selected Awards

University of Mississippi Medical Center

- Dean's Scholarship (2021-2022)
- Robert Hearin Foundation Grant (2019-2021)
- SOPH 2021 Student of the Year
- Diversity Equity Inclusion 2022 Pillar's Nomination

Tuskegee University

- Tuskegee University Merit Scholar (2015-2019)
- Tuskegee University Eminent Scholar (2015-2016)
- Top 5 finalist in university wide President's Essay Writing Contest (2016)

Professional Membership and Affiliation

American Statistical Association (2020-Present)

Pi Mu Epsilon Math Honor Society (2017)

Professional Leadership & Community Outreach

Vice President, School of Population Health 2019 – Present
UMMC

Accomplishments:

- Organized campus wide food donation drive benefitting EversCare Food Pantry
- Organized campus wide children's warm clothing drive benefitting Stewpot Community Services

Diversity and Inclusion Officer, Association of Student Body 2021 – 2022
UMMC

Accomplishments:

- Served on the 2022 Pillars Committee awarding UMMC and community leaders who promoted diversity, equity, and inclusion

Stewpot Community Service Youth Volunteer Tutor 2016 – Present
Jackson, MS

Tax Preparer 2020 – 21
Volunteer Intake Tax Assistance, Hinds Community College Single Stop

Forest Hill JROTC Math ACT tutor Fall 2019
Jackson, MS

Pre-Alumni Club Fundraising 2018 – 19
Tuskegee University

Student Intern for Mississippi State Conference NAACP Summer 2018
Jackson, MS

Tuskegee Airmen Scholarship Foundation Intern Fall 2018

References

Available upon request