

Murphy H. John

Education

University of Georgia

Aug. 2024 - Present

Ph.D. in Epidemiology and Biostatistics, Concentration: Biostatistics

University of New Mexico

May 2024

B.S. in Mathematics and Statistics

Certificate in Honors Interdisciplinary Liberal Arts, Summa Cum Laude

Research Experience

Graduate Research Assistant - Handel Group

Aug. 2024 - Present

Department of Epidemiology and Biostatistics, University of Georgia, Athens, GA

- Research focuses on infectious disease dynamics, vaccine efficacy, and immune response, mainly pertaining to influenza.

Biostatistics, Epidemiology, and Preventive Medicine Student Research Tech

Oct. 2023 - July 2024

Department of Internal Medicine, University of New Mexico, Albuquerque, NM

- Developed an online curriculum on biostatistical methodology and research design for residents in the UNM School of Medicine.

NSF REU - DEIM: Research Projects in Data-Enabled Industrial Mathematics

May 2023 - July 2023

Embry-Riddle Aeronautical University, Daytona Beach, Florida

- Summer Research Intern funded by the National Science Foundation's Research Experience for Undergraduates (REU) program.
- Built a spatio-temporal forecasting model to predict the demand for private jet travel during high-demand events and holidays.

NSF EPSCoR: TickBase Team Researcher

Feb. 2022 - May 2024

University of New Mexico, Albuquerque, NM

- Undergraduate Researcher funded by the National Science Foundation's Established Program to Stimulate Competitive Research.
- Built statistical models to characterize the geographic distribution of tick-borne diseases in Arizona and the contiguous U.S.
- Studied Geographic Information Systems (GIS) and geospatial data science for applications to environmental health issues.

Presentations and Talks

"Be Here Now"

University of New Mexico Dpt. of Mathematics & Statistics Convocation, Albuquerque, NM, May 10, 2024.

"Spotted Fever Rickettsiosis Dynamics in the United States"

University of New Mexico Undergraduate Research Opportunity Conference, Albuquerque, NM, Apr. 12, 2024.

University of Texas at Austin Gateway to Graduate Studies in Sciences Symposium, Austin, TX, Nov. 14, 2023.

University of New Mexico ASPIRE Open House, Albuquerque, NM, Nov. 9, 2023.

"Rocky Mountain Spotted Fever Dynamics in Arizona"

University of New Mexico Undergraduate Research Opportunity Conference, Albuquerque, NM, Apr. 21, 2023.

Work Experience

Mathematics Learning Lab Tutor Department of Mathematics and Statistics, University of New Mexico, Albuquerque, NM	Aug. 2023 - Dec. 2023
Resident Advisor/Leasing Agent American Campus Communities, Albuquerque, NM	Jun. 2021 - May 2023

Volunteering

Pathmaker Program Mentor Honors College, University of New Mexico, Albuquerque, NM	Apr. 2022 - May 2023
Resident Hall Association (RHA) University of New Mexico, Albuquerque, NM	Jun. 2021 - May 2023

Scholarship Awards

UGA College of Public Health Graduate Research Assistantship	Aug. 2024 - Present
UNM A&S Support for Undergraduate Research Experience (ASSURE)	Aug. 2022 - May 2024
Frank O. and Sadie M. Lane Research Scholarship	Aug. 2022 - May 2024
UNM Tallant Cooper Scholarship	Jan. 2022 - May 2022
UNM Alumni Association New York Chapter Scholarship	Jan. 2021 - May 2022
University of New Mexico Amigo Scholarship Award	Aug. 2020 - May 2024

Technical Skills

Programming Languages: R, Python, MATLAB
Other: ArcGIS, Microsoft Office, Windows OS, Salesforce CRM