Tahir Bashir

EDUCATION

- **Aug 2020- May 2023:**
  Doctor of Philosophy (Ph.D.) – Applied Science and Technology - North Carolina Agricultural and Technical State University
- **Aug 2018-May 2020:**
  Master of Science- Applied Mathematics - North Carolina Agricultural and Technical State University
- **Jan 2015-May 2017:**
  Master of Science- PSM, Construction Science and Management - North Carolina Agricultural and Technical State University
- **Aug 2008-Dec 2014:**
  Bachelor of Science- Construction Management - North Carolina Agricultural and Technical State University

EMPLOYMENT

- **Guilford County Schools (GCSNC), Greensboro, NC**
  - o **08/2024 – present** Substitute Teacher
- **University of the People (online university), Pasadena, CA**
  - o **12/2024 – present** Mathematics and statistical instructor
- **North Carolina Agricultural and Technical State University, Greensboro, NC**
  - o **08/2020 – 01/2025** Mathematics and Statistics Instructor
  - o **08/2015 – 08/2020** Research and teaching assistant

CERTIFICATIONS

- Google Certified Educator Level 1
- Accounting Certificate
- Administrative Assistant Certificate
- Concrete Field-Testing Technician Certifications—Grade I

RESEARCH AND TRAINING

- (NSF) National Science Foundation National Research Traineeship (known as NRT) Project - Improving Strategies for Hunger Relief and Food Security using Computational Data Science

INTERNSHIP

- Walter Lawerence Scholars Initiative at the Virginia Commonwealth University (VCU) Massey Cancer Center- Richmond, VA

COMPUTER SKILLS

- R, Python, MATLAB programming languages, NetworkX, SAS (Enterprise Miner, Base, and Enterprise Guide)
- Structured Query Language (SQL)
- Proficient with conferencing software like Zoom and Teams, etc.
- Proficient in MS offices such as Excel, PowerPoint, Word, etc.

HONORS AND AWARDS

2023   Walter Lawrence Scholars Initiative Scholarship, VCU

2021   NCAT, Greensboro, Research Grant Award By NHLBI

2020	NCAT, Greensboro, Research Grant Award funded by the BCSP Foundation-Research-Early-Stage Funding.
2019	(NSF) National Science Foundation National Research Traineeship Scholarship
2018	NCAT, Greensboro, Teaching Assistant Award for Excellence Mathematics Department
2017	NCAT University Student & Alumni Honor Society Network.
2016	NCAT School of Technology - Recognition and Perfect Attendance Honor

SCIENTIFIC PRESENTATIONS

June 27, 2023	The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) multipart. Data Management & Sharing (DMS): Metadata and Data Standards for NIDDK Research
March 11, 2023	Oral presentation for the 48th Annual Northeastern Storm Conference. National Weather Service (NWS) My research focuses on epidemiology, toxicology, the broad theme of science, and environmental health & safety.
October 19, 2022	North Carolina Society of Toxicology (NCSOT) Fall Annual Meeting Theme: Climate, Chemicals, and Carolina
September 13, 2022	Oral presentation for the American Society of Safety Professionals (ASSP) Region VI Professional Development Conference (PDC)
March 27, 2022	The Science of PFAS: Transforming Research into Action Society of Toxicology (SOT) 61st Annual Meeting and ToxExpo
July 30, 2020	The 19th International Conference in Advances in Data Science and Engineering Luxor Metro-Goldwyn-Mayer (MGM)

GENERAL SKILLS

- Experience coordinating studies and developing standard operating procedures
- Experience in machine learning: data mining, big data, and predictive analytics
- Proficiency in scripting languages R and Python
- Experience in research programs using statistics and mathematics
- Experience teaching mathematics and statistics courses
- Experience surveying and mentoring research
- Quick learner, problem-solving skills, solid strategic and critical thinker
- Influence in a constructive manner and maintain collaborative relationships
- Knowledge and understanding of how physical and mental health are related
- Take part in the conception, organization, and conduct of original research
- Help create and release scientific articles that convey findings
- Knowledge and experience in survey design
- Experience in Structured Query Language (SQL)

RESEARCH PUBLICATIONS

- **Bashir, Tahir,** and Emmanuel Obeng-Gyasi. "Combined Effects of Multiple Per-and Polyfluoroalkyl Substances Exposure on Allostatic Load Using Bayesian Kernel Machine Regression." International Journal of Environmental Research and Public Health 20.10 (2023): 5808. https://www.mdpi.com/1660-4601/20/10/5808
- Mohamed, Khidir Shaib, **Tahir Bashir**, Afif Abdalmonem, Ekram Adam, Amar Elgaili, Mahmoud Awadekarem, Hossam Eldeen Mohammed et al. (2023) "Computational Properties and Convergence Analysis of Proximal Gradient Method with Smoothing Elastic Net Regularization for Feedforward Neural Networks."Computational-Properties-and-Convergence-Analysis-of-Proximal-

Gradient-Method-with-Smoothing-Elastic-Net-Regularization-for-Feedforward-Neural-Networks.pdf (researchgate.net)

- **Bashir, Tahir.**, Obeng-Gyasi. "The Association of Combined Per-and Polyfluoroalkyl Substances and Metals with Allostatic Load Using Bayesian Kernel Machine Regression." Diseases 11.1 (2023): 52. https://www.mdpi.com/2079-9721/11/1/52#

- **Bashir, Tahir.**, Obeng-Gyasi, E. (2022) "The Association of multiple Per- and polyfluoroalkyl substances serum levels with Allostatic Load" *International Journal of Environmental Research and Public Health* https://doi.org/10.3390/ijerph19095455

- **Bashir, Tahir.**, and Obeng-Gyasi, E. (2022) "Interaction of Per- and Polyfluoroalkyl Substances and Allostatic Load among Adults in Various Occupations" *Diseases* https://doi.org/10.3390/diseases10020026

- **Bashir, Tahir,** Asiseh, F., Jefferson-Moore, K., Obeng-Gyasi, E. (2022) "The Association of Per- and Polyfluoroalkyl Substances Serum Levels and Allostatic Load by Country of Birth and the Length of Time in the United States" *International Journal of Environmental Research and Public Health* https://doi.org/10.3390/ijerph19159438

- **Bashir, Tahir.**, Kim, S, Liu, L, Davis, L (2021) A Resampling Based Semi-Supervised Learning Analysis for Identifying School Needs of Backpack Programs In *Advances in Data Science and Information Engineering*, https://doi.org/10.1007/978-3-030-71704-9_60