Md Nahid Hasan

Texas A&M University–Commerce 2200 Campbell Street, Commerce, TX, 75428, USA *Email:* nahid.hasan@tamuc.edu Phone: +1 903-886-5972

Education

Ph.D. in Statistics University of Nevada, Las Vegas, NV, USA August 2023 Thesis: Synergy and antagonism in log-linear models Advisor: Dr. Petros Hadjicostas

Master of Science (M.S.) in Statistics, Biostatistics, & Informatics University of Dhaka, Dhaka, Bangladesh October 2014

Bachelor of Science (B.S.) in Statistics, Biostatistics, & Informatics University of Dhaka, Dhaka, Bangladesh March 2013

Work Experiences

Assistant Professor

Texas A&M University-Commerce, Texas, USA August 2023–Present

Graduate Teaching Assistant

University of Nevada, Las Vegas, NV, USA August 2017–Present

- Instructor for undergraduate-level Mathematics and Statistics courses
- Led discussion sessions for courses with 100–120 students
- Developed course materials for statistics and R
- Mentored students for academic success

Graduate Research Assistant

University of Nevada, Las Vegas, NV, USA Summer 2022, 2023 Advisor: Dr. Petros Hadjicostas

- Studied Letac and Massam's framework for hierarchical log-liner models;
- developed inference for Worcester's synergistic models using thromboembolism data;
- reviewed synergy and antagonism in epidemiology

Awards and Recognitions

UNLV Outstanding Graduate Student Teaching Award (2nd place) University of Nevada, Las Vegas, 2023

Mathematical Sciences Summer Fellowship University of Nevada, Las Vegas, Summer 2022, 2023

Graduate Access Funds University of Nevada, Las Vegas, 2017 — 2018

Publication

Ahmmed, F., Hasan, M. N., Hossain, M. F., Khan, T. F., Hossain, M. J. (2022), Association between short birth spacing and child malnutrition in Bangladesh: A propensity score matching approach, Nutrition. (Under Review)

Presentation

Virtual Fall Symposium and Annual Meeting Fall 2021 American Statistical Association-Nevada Chapter, Las Vegas, NV, USA Topic: Synergy and Antagonism in Log-linear Models

Research and Projects

Synergy and antagonism in log-linear models (Ph.D. Dissertation)

- Studied hierarchical, standard, and non-standard log-linear models
- Developed a framework for inferences of synergy and antagonism
- Studied synergy and antagonism from epidemiological perspective

Area of Expertise

Research Interests Log-linear Models, Logistic Regression, Biostatistics, Epidemiology, Machine Learning, Categorical Data Analysis, Clustering, Classification, and Data Science

Teaching Interests Statistical Methods, Regression Analysis, Generalized Linear Models, Categorical Data Analysis, Biostatistics, Epidemiology, Time series, Experimental Design, Statistical Inference, Multivariate Analysis, College Algebra, Calculus, and Data Science

Technical Skills

R, SAS, Python, SPSS, SQL, LATEX, Beamer, Microsoft Power BI, Access, and Windows

Certifications

SAS Programming 1: Essentials (issued by SAS)
Learning SQL Programming (issued by LinkedIn Learning)
R Essential Training for machine learning (issued by LinkedIn Learning)
Online Teaching Essentials (issued by Online Education, UNLV)
Core Strategies for Teaching in Higher Ed. (issued by LinkedIn Learning)

Teaching Experiences

Department of Mathematical Sciences, University of Nevada, Las Vegas

- Intro to Statistics (STAT 152) Lecture, Credit: 3, Spring 2023
- Statistical Methods I (STAT 411) Discussion, Credit: 3, Fall 2022 Discussion, Credit: 3, Spring 2022 Discussion, Credit: 3, Fall 2021 Lecture, Credit: 3, Summer 2021

Discussion, Credit: 3, Spring 2021 Discussion, Credit: 3, Fall 2020 Discussion, Credit: 3, Spring 2020 Discussion, Credit: 3, Fall 2019 Discussion, Credit: 3, Spring 2019 Discussion, Credit: 3, Fall 2018

- Calculus I (MATH 181) Discussion, Credit: 3, Spring 2022 Discussion, Credit: 3, Fall 2018
- College Algebra (MATH 124) Lecture, Credit: 3, Summer 2020 Lecture, Credit: 3, Spring 2018 Lecture, Credit: 3, Spring 2018
- Fundamentals of Mathematics (MATH 120) Lecture, Credit: 3, Summer 2018

Affiliation

President Bangladeshi Students' Association at UNLV, Las Vegas, NV, USA Member International Biometric Society (IBS), WNAR