S M ASGER ALI

5821 Shadowview Way, Apt E, Indianapolis, IN 46241 · (405) 719-3666
sa48@iu.edu · https://www.linkedin.com/in/asger-ali
https://scholar.google.com/citations?hl=en&user=wPCHDJ4AAAAJ

SUMMARY

A GIS Analyst at the Polis Center, Indiana University Purdue University Indianapolis (IUPUI). Strong problem-solving capacities with broad expertise and aptitude in researching, analyzing, and framing applications of technologies, including seven years of teaching and research experience in academic institutions, private sector, and non-profit organizations.

SKILLS

- GIS Modeling
- Statistical Analysis
- Spatial Analysis
- Programming Languages: STATA, R and SQL
- Qualitative Data Analysis Software (i.e., NVivo)
- Data Visualization (i.e.,Tableau, ArcGIS Dashboards)
- Longitudinal Data Analysis
- Remote Sensing
- Scientific Report Writing

PROFESSIONAL AND RESEARCH EXPERIENCE

January 2022- Current

Geographic Information Systems (GIS) Analyst, Polis Center, Indiana University Purdue University Indianapolis (IUPUI).

- Develop and transform spatial data by using software tools and other data to support project objectives
- Assist in updating and maintaining complex GIS datasets.
- Create charts, graphs, maps, ArcGIS StoryMaps, and/or reports of the analytical results.

August 2020- December 2022

Graduate Research Assistant, Project: Content Analysis of Tornado Warning Communication, supported by award NA16OAR4320199 to the Northern Gulf Institute at Mississippi State University from NOAA's Office of Oceanic and Atmospheric Research, U.S. Department of Commerce.

- Study geographical content used in tornado warning communication.
- Examine the difference between warning communication in urban and rural areas.
- Explore how metaphors used in tornado warnings compare with hurricane coverage.

August 2019 – July 2020

Graduate Teaching Assistant, Mississippi State University, Starkville, MS.

- Designed and taught two-course sessions about Introduction to Geography classes for first-year college students using multiple technologies.

August 2017 – May 2019

Graduate Teaching Assistant, Oklahoma State University, Stillwater, OK.

- Teaching assistant for Theoretical Thinking in Sociology and Introduction to Sociology (Fall 2017 and 2018; Spring 2018) and Juvenile Delinquency and Culture, Religion, and Society (Fall 2018 and Spring 2018) courses.

- Assist lead professor in delivering classes that focus on the applied and theoretical perspective of sociology, graded exams, assignments, and projects of 300+ students with critique and helpful tips to write an academic paper.

January 2017 – June 2017
Research Assistant, Project: Poverty Alleviation through Prevention and Control of the Two Major Socio-Economically Important Pathogens in Asian Aquaculture (India and Bangladesh).
- Study Statistical data in the area of concentration like poverty, aquaculture, or agriculture.
- Device technique and method for shaping, gathering, and processing data, developing knowledge of the available source of data and sampling techniques.
- Unify data into report format arranged to prepare graphic illustration of research findings.

September 2015 – December 2015
Field Enumerator, Project: Building Integrity Blocks for Effective Change (BIBEC) with Transparency International Bangladesh.
- Household listing in Primary Sampling Units (PSUs).
- Survey data collection from randomly selected households using questionnaire.

EDUCATION

August 2019 – December 2022 (Expected)
Doctor of Philosophy in Earth and Atmospheric Sciences, Mississippi State University, Starkville, MS.
Relevant courses: Advanced GIS, GIS Programming, Physical Environment and Remote Sensing, Advanced Hazard and Disaster, Quantitative Analysis in Climatology and Urban Environments.
Dissertation Topic: A multi-method Exploration of Health Disparities and COVID-19 Incidence and Mortality in the United States.

August 2017 – May 2019
Master of Science in Sociology, Oklahoma State University, Stillwater, OK.
Thesis: Print Media Coverage of Hurricane Harvey: A Content Analysis of the Houston Chronicle, the New York Times, and The Wall Street Journal from 2017 to 2018.
Relevant courses: Classical Sociological Theory, Social Research Design, Qualitative Research Methods, Quantitative Analysis of Social Research, Social Inequality and Stratification and Sociology of Disaster.

March 2010 – October 2014
Bachelor of Science in Urban and Rural Planning, Khulna University, Khulna, Bangladesh.
Thesis: Regeneration Guidelines for the Neighborhood located in Residential Sites of Khulna City, Bangladesh.
Relevant courses: Natural Resource Management, Environmental Management, Disaster Studies, Project Planning & Evaluation Techniques, Statistics for Planners, Remote Sensing & Aerial Photo Interpretation.

Published Manuscripts, Conferences, and Poster Presentations

- **Ali, S. A.,** Sherman-Morris, K., and Shrinidhi, A. (2022). Spatial exploration of Social Vulnerability and COVID-19 related health outcomes in Mississippi. *Southeastern Geographer, 62(3)*, 176-193.

- **Ali, S. A.,** and Gill, D. A. (2022). Media Framing and Agenda-Setting (tone) in News Coverage of Hurricane Harvey: A Content Analysis of the New York Times, Wall Street Journal, and Houston Chronicle from 2017 to 2018. *Weather, Climate, and Society, 14(2),* 637-649, doi: 10.1175/WCAS-D-21-0009.1
- Ahasan, R., Alam, M. S., Chakraborty, T., **Ali, S. A.,** Alam, T. B., Islam, T., & Hossain, M. M. (2022). Applications of geospatial analyses in health research among homeless people: A systematic scoping review of available evidence. *Health Policy and Technology*, *11*(3), doi: 10.1016/j.hlpt.2022.100647
- **Ali, S. A.,** Sherman-Morris, K., Meng, K., and Shrinidhi, A. (2022). Longitudinal disparities in social determinants of health and COVID-19 incidence and mortality in the United States from the three largest waves of the pandemic. *Spatial and Temporal Epidemiology* (Manuscript Under Review).
- **Ali, S. A.,** and Sherman-Morris, K. (2022). An Exploratory Content Analysis of Two Local Television Broadcasters' Tornado Warning Communication (Manuscript under preparation).
- **Ali, S. A.,** Sherman-Morris, K., and Seitz, A. (2022). Pandemic and Health Reporting: A Content analysis of New York Times Coverage of COVID-19 from January 01, 2020, to August 31, 2022. (Manuscript under preparation).
- Ruma, A., Dixon, M., Sweeney, M., and **Ali, A.** (2022) Post-flood Geomorphic and Vegetative Dynamics on "set-aside" Sandbars on the Missouri River. (Manuscript under preparation).

ONLINE COURSE AND WORKSHOP

- 45th Annual Natural Hazards and Application Workshop, July 12-15, 2020, Colorado, USA.
- Display and Analyze GIS data on the Web with Leaflet, an online non-credit course offered through Udemy.
- Text Mining and Natural Language Processing in R, an online non-credit course offered through Udemy.
- Learning Python for Data Analysis and Visualization, an online non-credit course offered through Udemy.

FELLOWSHIPS & AWARDS

- Presidential Graduate Initiative Fellowship, Mississippi State University, MS.
- June 2022 Graduate Student Spotlight, Mississippi State University.
  Access Link: https://issuu.com/gradmarketing/docs/newsletter_june/4
- First prize in 86th Mississippi Academy of Science (MAS) conference, March 31-April 1, 2022, Biloxi, Mississippi (Category: Oral Presentation, Division: Geology and Geography).
- First prize in Mississippi State Fall 2020, Spring 2021, Fall 2021 and Spring 2022 Graduate Student Research Symposium (Category: Poster, Division: Education, Arts and Sciences, and Business - PhD),
  Access link**:** https://www.msstate.edu/newsroom/article/2022/03/2022-graduate-research-symposium-winners-announced-msu
- University Merit Scholarship, Khulna University, Khulna, Bangladesh.

MEMBER

- 2019-Present, American Association of Geographers.
- 2020-Present, Honor Society.
- February 2020-Present, The Society for Collegiate Leadership & Achievement.
- August 2018 – May 2019, Graduate Student Representative, Graduate and Professional Student Government Association, Oklahoma State University, Stillwater, USA.