

## Contact

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## Top Skills

Spatial Analysis  
Statistical Modeling  
Mixed Methods Research

## Certifications

Social and Behavioral  
TTU Human Subject Research -  
Required Basic

# Arup Ratan Paul

Graduate Research Assistant @ University of Colorado Boulder |  
Environmental Studies.  
United States

## Summary

I'm a PhD student in Environmental Studies at the University of Colorado Boulder, studying how climate stressors, such as extreme heat, salinity intrusion, and land-use change - affect health outcomes and migration patterns in climate-vulnerable areas, especially coastal Bangladesh.

My research integrates demographic and health data (BDHS, BEMS) with satellite imagery (MODIS, Sentinel) and climate indices (Climdex), using R, Stata, GIS, and remote sensing. I apply spatial and temporal statistics to investigate patterns of vulnerability and resilience.

I'm currently contributing to two major interdisciplinary projects:

- An NIH-funded study on extreme heat and infant mortality
- An NSF-funded project on migration, land use, and community resilience using Sentinel and MODIS data

I have a strong background in Sociology, with an MA focused on environmental vulnerability and community responses in coastal Bangladesh. My thesis was grounded in qualitative fieldwork, where I conducted in-depth interviews and ethnographic observations to explore how households navigate climate-induced challenges such as salinity intrusion and livelihood loss. This experience has equipped me with a solid foundation in qualitative research methods, including thematic analysis and community-based inquiry, which complements my current quantitative and spatial research in environmental studies.

I also teach and mentor undergraduate students and actively present at academic conferences such as PAA, SSSA.

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## Experience

University of Colorado Boulder - Environmental Studies  
Graduate Research Assistant  
January 2025 - Present (8 months)  
Boulder, Colorado, United States

I have been involved in an NIH-funded research project led by my advisor, which focuses on extreme heat and infant health in Bangladesh. I initially worked on data wrangling and now contribute to data analysis. The project includes several sub-projects, and I am leading one titled 'Extreme Heat and Infant Mortality in Bangladesh,' which integrates data from the Bangladesh Meteorological Department and the Bangladesh Demographic and Health Survey (BDHS). In addition to leading this sub-project, I also contribute to other components of the broader NIH-funded research initiative.

University of Colorado Boulder  
Graduate Teaching Assistant  
August 2024 - Present (1 year 1 month)  
Boulder, Colorado, United States

I have been working as a Teaching Assistant in the Department of Environmental Studies at CU Boulder, where I assist with the course 'Introduction to Environmental Studies.' I typically lead three recitation sessions per week for three separate batches of students, each consisting of approximately 30 to 40 students.

Texas Tech University  
Graduate Teaching Assistant  
August 2022 - May 2024 (1 year 10 months)  
Lubbock, Texas, United States

I worked as a Teaching Assistant (TA) and was involved in teaching courses such as Human Societies, Health and Environment, Contemporary Sociological Theories, Prison and Society, Criminological Theory, Victims of Crime, Introduction to Sociology, Sociology of Sport, and Sociology of Deviance.

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## Education

University of Colorado Boulder  
Graduate Student, Environmental Studies · (August 2024 - August 2029)

Texas Tech University  
Master's degree (MA) with Thesis, Sociology · (August 2022 - May 2024)

Shahjalal University of Science and Technology  
MSS with Thesis, Sociology · (January 2019 - August 2021)

Shahjalal University of Science and Technology  
BSS, Sociology · (April 2014 - December 2018)