

Rahul Mondal

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WORK HISTORY

Research Internship

Research Intern at the Department of Economic Analysis and Research, NABARD
June 2021 to August 2021

Predoctoral Research Papers, 2022

Presented a critical review-based paper on the measurement of differential mortality.

Presented an empirical research paper entitled "On the measures of welfare and mortality paradox: Achievements vs delusions" (Proceeding with submission to the Economics and Human Biology).

Doctoral Dissertation, 2023

"Towards understanding the elusive dynamics of lifespans within variable environments"

EDUCATIONAL BACKGROUND

International Institute for Population Sciences

Mumbai, India
PhD in Population Studies
2023-Present

International Institute for Population Sciences

Mumbai, India
Pre-doctoral degree in Population Studies
2022-23

International Institute for Population Sciences

Mumbai, India
Master's Degree in Population Studies
2020 - 22

PROFESSIONAL SUMMARY

As a formal demographer, I specialise in population dynamics, variable environment and evolutionary dynamics of lifespan. My research focuses on the biodemography of lifespan, noise introduced by heterogeneity, and commonalities in mortality patterns between humans and other species at advanced ages. I have professional proficiency in R programming. I am currently interested in the evolutionary implication of varying environments and adaptive life history strategies on human life span.

RESEARCH INTERESTS

- Biodemography
- Formal demography
- Spatial demography
- Evolution of lifespan and senescence
- Drivers of life history strategies
- Population modelling and forecast
- Species distribution modelling
- Environmental stochasticity
- Comparative Demography

TECHNICAL SKILLS

- **Language:** R, Python
- **Data Analytics:** Stata, SPSS, GeoDa
- **Data Visualization:** ShinyR, Tableau
- **GIS:** ArcGIS, QGIS
- **Demographic Models:** MortPak, Spectrum

ANALYTICAL SKILLS & PROFICIENCIES

- Demographic Analysis of Matrix Population Models in R
 - Life expectancy and life span inequality, Entropy, and Stochastic population growth models in R
 - Geospatial analysis in R and ArcGIS
 - Use of simulations for scenario modelling in R
 - Population forecast in R (Deterministic and Stochastic)
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GRANTS & AWARDS

University Grant Commission-Junior Research Fellowship (UGC-JRF)

JRF in Population Studies
2022-present

Government of India (GoI) Fellowship

2020-22

RESEARCH

Mondal, R., and Mishra, U.S., Reading survival gains through the stages of transition: A correction to Keyfitz's entropy (Resubmitting to *Demographic Research*)

Mondal, R., and Mishra, U.S., On the measures of welfare and mortality paradox (Proceeding for publication in the *Economics and Human Biology*)

CONFERENCES

2021 International Population Conference

International Union for Scientific Study of Population (IUSSP)

LANGUAGE PROFICIENCY

- **English** (Professional Proficiency)
 - **Bengali** (Native Proficiency)
 - **Hindi** (Proficient)
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HOBBIES

- Violinist
- Painter