

# Mihir Adhikary

## Research Scholar

### Profile Summary

Motivated and detail-oriented public health researcher with strong interdisciplinary expertise in environmental epidemiology, geospatial analysis, and population studies. Experienced in handling large-scale demographic datasets and applying advanced statistical and spatial techniques to address real-world health challenges. Proven ability to produce high-impact research, with over 15 peer-reviewed publications and growing academic recognition. Adept at scientific communication, policy translation, and collaborative work in diverse research and institutional settings. Committed to contributing meaningful, data-driven insights to improve health outcomes and support evidence-based policymaking. Currently at the final stage of PhD in IIPS Mumbai under the supervision of Prof. Nandita Saikia.

### EDUCATION

#### PHD | 2021 - Ongoing | International Institute for Population Sciences

Public Health and Mortality Studies

#### M.PHIL | 2020 - 2021 | International Institute for Population Sciences

Migration and Urban Studies

#### Master of Population Studies (MPS) | 2019 - 2020 | International Institute for Population Sciences

Population Studies

#### Master of Science (M.Sc.) | 2017 - 2019 | Tripura University

Geography and Disaster Management

#### Bachelor of Science (B.Sc.) | 2014 - 2017 | University of North Bengal

Geography

### Skills

Data analysis; Predictive modelling; Large scale survey; data handling; Spatial Analysis & GIS; Epidemiological modelling; Scientific Writing; R; STATA; SPSS; ArcGIS; GeoDA; CSpro; Kobo Toolbox; Qualitative data analysis; ATLAS.ti

### Recent Publications (2023 onwards)

1. **Adhikary, M.**, Saikia, N., Purohit, P., Canudas-Romo, V., & Schöpp, W. (2024). Air Pollution and Mortality in India: Investigating the Nexus of Ambient and Household Pollution Across Life Stages. *GeoHealth*, 8(8), e2023GH000968. <https://doi.org/10.1029/2023GH000968>
2. **Adhikary, M.**, Mal, P., & Saikia, N. (2024). Exploring the link between particulate matter pollution and acute respiratory infection risk in children using generalized estimating equations analysis: a robust statistical approach. *Environmental health : a global access science source*, 23(1), 12. <https://doi.org/10.1186/s12940-024-01049-3>
3. **Adhikary, M.**, & Saikia, N. (2024). *Climatic adversities and child health in India: Integrating modeled data on air pollution, heatwaves, and rainfall extremes with DHS surveys*. In *AGU Fall Meeting Abstracts* (Vol. 2024, GH34A-03). <https://ui.adsabs.harvard.edu/abs/2024AGUFM34A..03A>
4. **Adhikary, M.**, Goyal, A., & Akhtar, S. (2024). *The mediating role of health status in the relationship between indoor air pollution and life satisfaction among older adults in India* [Preprint]. Research Square. <https://doi.org/10.21203/rs.3.rs-4642687/v1>
5. **Adhikary, M.**, Barman, P., Singh, B., & Anand, A. (2024). Modern Contraception and Anaemia Among Reproductive-age Women in India: Results From a Household Survey. *Journal of*

### CONTACT

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in [Mihir Adhikary](#).

🌐 <https://mihir-iips.github.io/Portfolio/>

### AREA OF INTERESTS

Environmental Health; Public health; Mortality; Air Pollution; Climatic adversity; SDGs

### AWARDS AND HONORS

- Awarded IIPS Silver medal for securing second rank in M.Phil. Program at International Institute for Population sciences (IIPS), 2021.
- Qualified for UGC Junior Research Fellowship (JRF) in Geography and eligible for assistant professor.
- Received Government of India (GOI) fellowship during Master of Population studies in 2019-20 from International Institute for Population Sciences.

### MEMBERSHIP

- American Geophysical Union (AGU)
- International Union for Scientific Study of Population (IUSSP)
- British Society for Population Studies (BSPS)
- Indian Society of Spatial Scientists (ISSS)
- International Institute for Population Sciences Alumni Association (IIPSAA)

### TRAINING & CERTIFICATIONS

- Certificate course on "Digital and Computational Demography" by **Max Planck Institute for Demographic Research (MPIDR)**, Germany
- Diploma in **Data Analytics with Python** issued by Alison
- Certificate course on "Epidemiology: The Basic Science of Public Health" at The **University of North Carolina** at Chapel Hill through Coursera
- Diploma in Information Technology Application

### PASSION

- Playing Badminton
- Travelling

preventive medicine and public health = Yebang Uihakhoe chi, 57(4), 339–346.

<https://doi.org/10.3961/jpmph.23.504>

6. Biswas, S., **Adhikary, M.**, Alam, A., Islam, N., & Roy, R. (2024). Disparities in access to water, sanitation, and hygiene (WASH) services and the status of SDG-6 implementation across districts and states in India. *Heliyon*, 10(18), e37646. <https://doi.org/10.1016/j.heliyon.2024.e37646>
7. Das, B., **Adhikary, M.**, Singha, S. R., & Parmar, D. (2024). Who is Anaemic in India? Intersections of class, caste, and gender. *Journal of biosocial science*, 56(4), 731–753. <https://doi.org/10.1017/S0021932024000245>
8. **Adhikary, M.**, Saha, A., Das, K.C. (2024). Prevalence, Pattern, and Predictors of Multi-morbidity Among India's Elderly Population. In: Alam, A., Rukhsana, Biswas, S., Islam, N., Roy, R. (eds) *Population, Environment and Disease*. Springer, Cham. [https://doi.org/10.1007/978-3-031-67624-6\\_12](https://doi.org/10.1007/978-3-031-67624-6_12)
9. **Adhikary, M.**, Das, K.C., Islam, N., Hossain, M., Dakua, M., Debnath, M. (2024). Unpacking Traditional Contraceptive Practices in Bangladesh: A Comprehensive Examination of Nationally Representative Large-Scale Data. In: Alam, A., Rukhsana, Biswas, S., Islam, N., Roy, R. (eds) *Population, Environment and Disease*. Springer, Cham. [https://doi.org/10.1007/978-3-031-67624-6\\_17](https://doi.org/10.1007/978-3-031-67624-6_17)
10. Munda, J., **Adhikary, M.**, & Saha, A. (2024). Untouchability-Induced Migration in India: Exploring the Trajectory of Scheduled Caste Migrants. *Contemporary Voice of Dalit*. <https://doi.org/10.1177/2455328x241259822>
11. Roy A, Rahaman M, **Adhikary M**, et al. Unveiling the spatial divide in open defecation practices across India: an application of spatial regression and Fairlie decomposition model. *BMJ Open* 2023;13:e072507. doi: 10.1136/bmjopen-2023-072507
12. Samanta, R., Munda, J., Mandal, S. and **Adhikary, M.** (2023), "Health-care utilisation among India's middle and older aged migrants: scrutinizing the status and predictors using Andersen's simplified healthcare utilisation framework", *International Journal of Migration, Health and Social Care*, Vol. 19 No. 2, pp. 142-156. <https://doi.org/10.1108/IJMHS-07-2022-0068>
13. Saha A, Muhammad T, Mandal B, **Adhikary M**, Barman P (2023) Socio-demographic and behavioral correlates of excess weight and its health consequences among older adults in India: Evidence from a cross-sectional study, 2017–18. *PLoS ONE* 18(10): e0291920. <https://doi.org/10.1371/journal.pone.0291920>
14. Barman, K., Roy, R., **Adhikary, M.** et al. (2023). Role of Demographic and Socio-economic Factors for Influencing on Utilization of Maternal Health Care Services Among the Scheduled Tribe Women: An Experience from the EAG States of India. *Global Social Welfare*. <https://doi.org/10.1007/s40609-023-00272-z>

- Playing Acoustic Guitar

## Volunteer

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- Student volunteer at IIPSAA.
- Student volunteer at American Geophysical Union (AGU)