

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.

EDUCATION

PHD | 2021 - Ongoing | International Institute for Population Sciences (IIPS)

Public Health and Mortality Studies
"Title of Thesis: Physiological and Mental Health Effects of Air Pollution in Delhi"

M.PHIL | 2020 - 2021 | International Institute for Population Sciences (IIPS)

Migration and Urban Studies

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

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; Scientific Writing; R; STATA; SPSS; ArcGIS; GeoDA; CSpro; Kobo Toolbox; Qualitative data analysis

Work Experience

Research Officer (RO) Jul '25 - Present
International Institute for Population Sciences Mumbai

Project Name: A Study of Early Marriage in Assam
As a Research Officer, key responsibilities include managing project-related administrative tasks, monitoring and supervising field operations (such as coordinating with study area officials and overseeing data collection teams), preparing data (through cleaning and organization), conducting data analysis, and writing reports.

Recent Publications (2023 onwards)

- 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>
- 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>
- Adhikary, M., Goyal, A. K., & Akhtar, S. (2025). The mediating role of health status in the relationship between indoor air pollution and life satisfaction among older adults in India. *BMC Public Health*, 25(1), 3403.

CONTACT

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- [Mihir Adhikary](#)
- <https://mihir-iips.github.io/Portfolio/>

AREA OF INTERESTS

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

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

- **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 preventive medicine and public health = Yebang Uihakhoe chi*, 57(4), 339–346. <https://doi.org/10.3961/jpmph.23.504>
- Parikh, G., Mehta, A. U., Siddiqui, N. A., Kumar, K., **Adhikary, M.**, & Patel, B. (2025). Maternal Exposure to PM2. 5 and Its Association with Adverse Pregnancy and Birth Outcomes: A Prospective Cohort Study. *Reproductive Toxicology*, 109127.
- Barman, A., **Adhikary, M.**, & Sarode, S. (2025). Does caring for grandchildren influence life satisfaction? A national-level analysis among older adults in India using a propensity score matching approach. *BMC Public Health*, 25(1), 2386.
- 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>
- 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>
- **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
- **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
- 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>
- 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
- Roy, A., Rahaman, M., Bannerji, R., **Adhikary, M.**, Kapasia, N., Chouhan, P., & Das, K. C. (2023). Spatial clustering and drivers of open defecation practice in India: findings from the fifth round of National Family Health Survey (2019-21). *Global Transitions*, 5, 55-63.
- 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>
- 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>
- 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>

PASSION

- Playing Badminton
- Travelling
- Playing Acoustic Guitar

Volunteer

Student Volunteer at IIPS Alumni

Association, ,Responsibilities include organizing lectures, workshops, handling the contents of the website.