Dr. Tamal Basu Roy received his Master of Science and doctoral degree from University of North Bengal, West Bengal, India. Dr. Roy’s research interest includes emerging public health and population issues, transport connectivity and marketing geography. He has published several research articles during his academic carrier.



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**Publications**

**Publication Year 2025**

1. Das, P., & Basu Roy, T. (2025). Exploring the role of stress as a mediator between multidimensional poverty, food insecurity, and alcohol dependency among the tribal male adolescents: a study in the Dooars region. *International Journal of Adolescence and Youth*, *30*(1), 2439901.
2. Saha, S., Das, P., Das, T., Das, P., & Roy, T. B. (2025). Association of social participation with physical and mental health status among Indian adults. *Journal of Medicine, Surgery, and Public Health*, *5*, 100166.

**Publication Year 2024**

1. Das, T., Das, P., & Roy, T. B. (2024). Spatial Proximity of Regional Socio-Economic and Demographic Characteristics and Its Spillover Effects on Spousal Violence Against Women in Indian Context. *Spatial Demography*, *12*(2), 6.
2. Das, P., Das, T., & Roy, T. B. (2024). Initiation of Alcohol Consumption Among the Tribal Male Adolescents in Dooars Region of West Bengal: A Failure Event Analysis Approach. Journal of Racial and Ethnic Health Disparities, 1-12.
3. Das, P., Saha, S., Das, T., Das, P., & Roy, T. B. (2024). Association of depression with widowhood, loneliness, and social non-participation among older women in India. *Journal of Medicine, Surgery, and Public Health*, *3*, 100111.
4. Saha, S., Das, P., Das, T., Das, P., & Roy, T. B. (2024). Cognitive decline gap between male and female in Indian context: Examining the contribution of underlying factors using non-linear decomposition analysis. *Archives of Gerontology and Geriatrics Plus*, *1*(4), 100103.

***Specialization***

*Population Geography*

***Research Interest***

* *Emerging Population health issues*
* *Marketing Geography*
* *Transport Geography*

**Publication**

***Professional (Up to2023)***

* **Research Experience:** 9 Years
* **Guiding Experience:** 6 Years
* **Ph.D Scholar:** 5
* **Ph.D Awarded:** 3
* **M.Phil Scholar:** 2
* **M.Phil Awarded:** 2
* **Life Member:**Decan Geographer and Hill geographer (Journal)
* **Orcid ID:**



**Publication Year 2024**

1. Barman, B., Roy, T. B., Sarkar, B., & Roy, R. (2024). Demographic and Socioeconomic Determinants of Indigenous Tribal Fertility Behaviour: A Case Study of Dinhata-II Block of Cooch Behar District, West Bengal. In Population, Environment and Disease: Towards Health Geography (pp. 211-227). Cham: Springer Nature Switzerland.
2. Das, P., Saha, S., Das, T., Das, P., & Roy, T. B. (2024). Spatial prevalence and associated risk factors of childhood diarrhea: A cross-sectional study in rural Indian context. Global Health Economics and Sustainability, 2048.
3. Saha, S., Das, P., Das, T., Das, P., & Roy, T. B. (2024). A study about the impact of indoor air pollution on cognitive function among middle-aged and older adult people in India. Archives of Public Health, 82(1), 1-11.
4. Nad, C., & Basu-Roy, T. (2024). Association between people’s attitudes towards human-elephant conflict and their locational, demographic, and socio-economic characteristics in Buxa Tiger Reserve and its adjoining area, India. Regional Sustainability, 5(1), 100109.
5. Das, P., Das, T., & Roy, T. B. (2024). Investigating key latent factors influencing alcohol consumption among the tribal male adolescents in Dooars region, West Bengal. Journal of ethnicity in substance abuse, 1-24.
6. Das, P., Saha, S., Das, T., Das, P., & Roy, T. B. (2024). Confluence of Newborn’s Sex and Their Mother’s Characteristics Resulting in Fetal Macrosomia Among Indian neonates. Pediatrics & Neonatology
7. Nad, C., Basu Roy, T., & Roy, R. (2022). Forest cover health dynamics analysis overtime in and adjoining region of Buxa Tiger Reserve (BTR), India.
8. Das, P., Saha, S., Das, T., Das, P., & Roy, T. B. (2024). Assessing the modifiable and non-modifiable risk factors associated with multimorbidity in reproductive aged women in India. *BMC Public Health*, *24*(1), 676.
9. Das, T., Das, P., & Roy, T. B. (2024). Mediation Effect of Depression, Alcohol Consumption, and Household Food Insecurity to Intimate Partner Violence in Rural Counterparts of Dakshin Dinajpur District, West Bengal. *Global Social Welfare*, 1-11.
10. Das, P., Das, T., Das, P., & Roy, T. (2024). An association of deficiencies in balanced dietary practices and inadequate iron and folic acid supplement’s intake during pregnancy and increasing risk of pre-eclampsia or eclampsia among Indian women. *PLOS Global Public Health*, *4*(1), e0001633.

**Publication Year 2023**

1. Saha, S., Das, P., Das, T., Das, P., & Roy, T. B. (2023). Synthesizing the risk of morbidities and lifestyle factors on insomnia symptoms among middle-aged and older adult persons in India. *Sleep Science and Practice*, *7*(1), 12.
2. Barman, B., Roy, T. B., Miah, A. H., & Roy, R. (2023). Educational Impact on Tribal Fertility: A Case Study of Dinhata-II Block, Koch Bihar, West Bengal. In Population, Sanitation and Health: A Geographical Study Towards Sustainability (pp. 83-93). Cham: Springer Nature Switzerland.
3. Saha, S., Das, T., Das, P., Das, P., & Roy, T. B. (2023). Examining the risk of substance use and lifestyle factors on cognitive decline among older people in India. *Journal of Public Health*, 1-11.
4. Roy, T. B., Das, T., Das, P., & Das, P. (2023). Analyzing determinants from both compositional and contextual level impeding desired linear growth of children in Indian context. *BMC nutrition*, *9*(1), 69.
5. Roy, T. B., Das, P., & Das, T. (2024). Unique Contribution of Maternal Factors and Its Association with Anemia Among Under 5 Children in Indian Context. *Global Social Welfare*, *11*(1), 45-60.
6. Das, P., Das, T., & Roy, T. B. (2023). Substance Use and Its Association with Risky Sexual Behaviour among Indian Men: A Relative Risk Analysis from Socio-Demographic and Economic Groups. *Psychoactives*, *2*(2), 133-143.
7. Das, P., Das, T., & Roy, T. B. (2023). Role of proximate and non-proximate determinants in children ever born among Indian women: Change detection analysis from NFHS-3 & 5. *Women and Children Nursing*, *1*(1), 9-17.
8. Das, P., Das, T., & Roy, T. B. (2023). Social jeopardy of substance use among adolescents: a review to recognize the common risk and protective factors at the global level. *Psychoactives*, *2*(2), 113-132.

**Publication Year 2022**

1. Das, P., Das, T., & Roy, T. B. (2023). A formal appraisal about high-risk sexual behaviour on the pretext of substances use among Indian men. *Journal of Prevention*, *44*(2), 207-220.
2. Das, P., Das, T., & Roy, T. B. (2022). Overweight Syndrome, a Deviation from Normalcy: a Multiple Risk Factor Analysis Among Reproductive Age Group (15–49) Women in Indian Context. *Global Social Welfare*, 1-11.
3. Das, T., Das, P., & Roy, T. B. (2022). Physical Violence Against Women by Their Partner: A Latent Class Measurement and Causal Analysis from Rural Counterparts of Dakshin Dinajpur District, India. *Global Social Welfare*, *9*(4), 229-240.
4. Das, P., Das, T., & Roy, T. B. (2022). Stunting, a linear growth anomaly in under-five year (U5) children: a risk factors’ analysis from maternal, household and individual background in Indian context. *Child Indicators Research*, *15*(3), 1025-1042.
5. Das, T., Das, P., Kundu, P. K., & Roy, T. B. (2022). Individual and parental factors on depressive disorder and its detrimental effects among adolescents and young adults: a study from Bihar state, India. *Clinical Epidemiology and Global Health*, *13*, 100962.
6. Nad, C., Roy, R., & Roy, T. B. (2022). Human elephant conflict in changing land-use land-cover scenario in and adjoining region of Buxa tiger reserve, India. *Environmental Challenges*, *7*, 100384.

**Publication Year 2021**

1. Das, T., Roy, T. B., & Roy, R. (2021). Reintegration with family and intimate partner violence (IPV) against women among the returnee migrant worker’s family during COVID-19 induced lockdown: A Block-level analysis using multinomial logistic regression model. *Children and youth services review*, *130*, 106226.
2. Das, P., Roy, R., Das, T., & Roy, T. B. (2021). Prevalence and change detection of child growth failure phenomena among under-5 children: a comparative scrutiny from NFHS-4 and NFHS-5 in West Bengal, India. *Clinical Epidemiology and Global Health*, *12*, 100857.
3. Adhikari, A. K., & Roy, T. B. (2021). Latent factor analysis and measurement on sustainable urban livability in Siliguri Municipal Corporation, West Bengal through EFA and CFA model. *Computational urban science*, *1*(1), 23.

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**M.Phil and Ph.D Guidance Experience**

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| --- | --- | --- | --- | --- |
| Sl. No | Name of the Scholar | M.Phil/P.hD | Topic | Year of Award |
| 1. | Chiranjib Nad | P.hD | IMPACT OF NATURAL HABITAT CHANGE ON HUMAN - ELEPHANT CONFLICT: A CASE STUDY OF BUXA TIGER RESERVE (BTR), ALIPURDUAR DISTRICT | 2022 |
| 2. | Madhurima Sarkar | P.hD | MATERNAL HEALTH CARE CENTRES AND UTILIZATION OF HEALTH CARE SERVICES IN UTTAR DINAJPUR DISTRICT, WEST BENGAL | 2023 |
| 3. | Amit Kumar Adhikari | P.hD | A GEOSPATIAL ANALYSIS ON URBAN GROWTH AND URBBAN LIVABILITY OF SILIGURI MUNICIPAL CORPORATION, WEST BENGAL, INDIA | 2024 |
| 4. | Bishnu Barman | M.Phil | ROLE OF DEMOGRAPHIC AND SOCIO-ECONOMIC DETERMINANTS ON FERTILITY BEHAVIOUR OF INDIGENOUS TRIBAL POPULATION: A CASE STUDY ON DINHATA- II BLOCK, COOCH BEHAR DISTRICT, WEST BENGAL | 2020 |
| 5. | Subhendu Basak | M.Phil | DISTRIBUTION ROAD CONNECTIVITY AND PEOPLE’S RESPONSE TO MAJOR RURAL SERVICE CENTRES IN ITAHAR BLOCK, UTTAR DINAJPUR, WEST BENGAL | 2022 |

**Relevant lectures**

|  |  |  |
| --- | --- | --- |
| **Name of the Conference/ Refresher course** | **Venue and Date** | **Lead lectures on** |
| Emerging Issues in Environment, Livelihood and Development: A Future Road Map Towards Sustainable Earth | North Bengal University 26th – 28th January, 2024 | Age at first marriage of women and reproductive health: Evidence from West Bengal |
| Environment And Disaster Management | UGC MALAVIYA MISSION TEACHER TRAING CENTRE University of North Bengal 03.01.2025 | Glacial lake outburst flood |

**Note:**

I certify that the information I am about to provided is true and complete tothe best of my knowledge. I am aware that this self declaration statement issubject to review and verification and if such information has been falsified Imay be terminated from the program for fraudand/or perjury.

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*Signature*

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