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Specialization

Population Geography

Research Interest

- ❖ *Emerging Population & health issues*
- ❖ *Application of statistics*
- ❖ *Marketing Geography*
- ❖ *Transport Geography*

Professional (Up to 2025)

- ❖ **Research Experience:** 11 Years
- ❖ **Guiding Experience:** 7 Years
- ❖ **Ph.D Scholar:** 5
- ❖ **Ph.D Awarded:** 4
- ❖ **M.Phil Scholar:** 2
- ❖ **M.Phil Awarded:** 2
- ❖ **Orcid ID:**



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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 geography, statistical applications and marketing geography. He has published several research articles during his academic carrier.



Dr. Tamal Basu Roy (M.Sc., Ph.D.)
Assistant Professor (Geography)
Raiganj University, West Bengal

Publications

Publication Year 2025

1. Das, P., Roy, T. B., Bisai, S., Das, T., Das, P., & Saha, S. (2025). A study on spatial association of poor child health outcomes and multidimensional poverty in India. *BMC Public Health*, 25(1), 4140.
2. Saha, S., Das, P., Das, T., Das, P., Roy, R., & Roy, T. B. (2025). Midlife Substances Use Risk Factors and Cognitive Disorder in Late Life: A Systematic Review Using Meta-Analysis. *Health Sciences Review*, 100243.
3. Das, P., Saha, S., Das, T., Das, P., & Roy, T. B. (2025). Optimizing antepartum and post-partum health care support and practices and its association with dietary intake among the reproductive women: a national level study from Indian context. *BMC nutrition*, 11(1), 162.
4. Das, P., Saha, S., Das, T., Das, P., Roy, R., & Roy, T. B. (2025). A systematic review and meta-analysis on association between social non-participation and falling in depressive state among the older adult people. *Discover Mental Health*, 5(1), 1-16.
5. Saha, S., Das, P., Das, T., Das, P., & Roy, T. B. (2025). Risk Factor Analysis and Its Association with Predicted Probability Assessment of CVDs among Middle-Aged and Older Adults in Indian Context. *Global Social Welfare*, 1-12.

Publications Year 2025

5. Das, P., Saha, S., Das, T., Das, P., & Roy, T. B. (2025). Spatial association of biosocial and economic factors with reproductive women obesity in urban India. *Plos one*, 20(3), e0319580.
6. Das, T., Das, P., & Roy, T. B. (2025). Disregarding hygienic menstrual practices initiating reproductive tract infections during adolescents and early adulthood periods: a cross-sectional analysis from Indian women. *Discover Public Health*, 22(1), 1-17.
7. 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.
8. 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.

5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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*
11. Nad, C., Basu Roy, T., & Roy, R. (2022). Forest cover health dynamics analysis overtime in and adjoining region of Buxa Tiger Reserve (BTR), India.
12. 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.
13. 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.

14. 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. Sarkar, M., Roy, T. B., & Roy, R. (2022). An Assessment Study on Hierarchical Integrity of Road Connectivity and Nodal Accessibility of Maternal Health Care Service Centres in Itahar Block, Uttar Dinajpur District, West Bengal. In *Livelihood Enhancement Through Agriculture, Tourism and Health* (pp. 439-457). Singapore: Springer Nature Singapore.
6. 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.
7. 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.
4. Das, T., & Roy, T. B. (2021). While inadequate birth interval becomes detrimental to health & nutritional outcome in infant and under-five year children; a systematic review through BLR and CPH model. *Clinical Epidemiology and Global Health*, 11, 100714.
5. Sarkar, M., Das, T., & Roy, T. B. (2021). Determinants or barriers associated with specific routine check-up in antenatal care in gestational period: A study from EAG states, India. *Clinical Epidemiology and Global Health*, 11, 100779.
6. Risk factors associated with under-five mortality of children in empowered action group states and Assam (EAG & Assam), India: Evidence from NFHS-4, International Journal of Humanities & social Science studies (IJHSSS)

Publication Year 2020

1. Das, T., & Roy, T. B. (2020). More than individual factors; is there any contextual effect of unemployment, poverty and literacy on the domestic spousal violence against women? A multilevel analysis on Indian context. *SSM-Population Health*, 12, 100691.

2. Das, T., & Roy, T. B. (2020). Use of time-varying and time-constant coefficient in hazard event analysis of Girl's child marriage: A study from the Empowered Action Group (EAG) states of India. *Children and Youth Services Review*, 117, 105292.

Publication Year 2016

1. Measuring the Nodal connectivity of surface transport network in raiganj block, Uttar Dinajpur district, West Bengal, India

Publication Year 2015

1. Role of rural periodic market centres in regional economic development-a case study of Uttar Dinajpur district, West Bengal (ACADEMICIA: An International Multidisciplinary Research Journal 6 (5), 30-39)

Publication Year 2013

1. Spatial analysis of hierarchy of periodic market centres: A case study of uttar Dinajpur district, West Bengal (ACADEMICIA: An International Multidisciplinary Research Journal 3 (3), 155-174)

Publication Year 2010

1. A plan to guide the direction of success for kulik bird sanctuary in West Bengal (Atna Journal of Tourism Studies)
2. Rural Periodic Market, An Integral System of Internal Marketing–A Case Study of Uttar Dinajpur Distract West Bengal (Economic Affairs 55 (3and4), 225-230)

M.Phil. and Ph.D. Guidance Experience

| Sl. No | Name of the M.Phil/P.hD Scholar | Topic | Year of Award |
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|----|---------------------|-----------------------|--|------|
| 1. | Chiranjib Nad | Ph.D. | IMPACT OF NATURAL HABITAT CHANGE ON HUMAN - ELEPHANT CONFLICT: A CASE STUDY OF BUXA TIGER RESERVE (BTR), ALIPURDUAR DISTRICT | 2022 |
| 2. | Madhurima Sarkar | Ph.D. | MATERNAL HEALTH CARE CENTRES AND UTILIZATION OF HEALTH CARE SERVICES IN UTTAR DINAJPUR DISTRICT, WEST BENGAL | 2023 |
| 3. | Amit Kumar Adhikari | Ph.D. | A GEOSPATIAL ANALYSIS ON URBAN GROWTH AND URBAN LIVABILITY OF SILIGURI MUNICIPAL CORPORATION, WEST BENGAL, INDIA | 2024 |
| 4. | Tanu Das | Ph.D. | DOMESTIC VIOLENCE AGAINST WOMEN IN RURAL PARTS OF DAKSHIN DINAJPUR DISTRICT, WEST BENGAL | 2025 |
| 5. | Partha Das | Ph.D. (Registered) | A STUDY ON SUBSTANCES USE AMONG SELECTED TRIBAL MALE ADOLESCENTS IN DOOARS REGION OF WEST BENGAL, INDIA | --- |
| 6. | 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 |
| 7. | 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 / Conferences

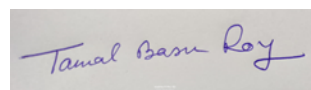
| Name of the Conference/ Refresher | Venue and Date | Lead lectures on/Paper |
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| course | | presented |
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| Essence of Geography What, where, why and How | 11&12 Nov,2022 Cooch Behar Panchanan Barma University | Does enhancement of women empowerment reduce the violence Against women in households? A case study of intimate partner violence from rural Dakshin dinajpur district, west Bengal” |
| Urbanization, Urban Environment and Sustainability in Himalayan and Sub-Himalayan Region | 1&2 July, 2023 North Bengal University | Alcohol Consumption among tribal male adolescents in the Dooars Region: A Risk factor analysis on specific age cohort |
| 45th Annual Meet of the Institute of Indian Geographers’ (IIG) and the International Conference on "Mapping the Future: Geography for a Better World | 19th to 21st December 2024, NEHU | Causes and Consequences of Substance Use among Tribal Male Adolescents in Dooars Region of West Bengal a |
| 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 TRAINING CENTRE University of North Bengal 03.01.2025 | Glacial lake outburst flood |
| ICSSR-ERC Sponsored Week-long National Level Workshop On Advanced Remote Sensing and Statistical Methods in Geographical Research | Department of Geography and Applied Geography University of North Bengal, 17.03.2025 to 21.03.2025 | Hypothesis Testing in Geographical Research Parametric & Non-Parametric Tests |
| Short Term Course on Application Statistical Software R for Research | UGC MALAVIYA MISSION TEACHER TRAINING CENTRE | PLS – SEM |

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| | University of North Bengal, 15.09.2025 | |
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Note:

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



Signature
