

## WORKING AS

ASSISTANT PROFESSOR,  
DEPARTMENT OF  
GEOGRAPHY AND APPLIED  
GEOGRAPHY, UNIVERSITY OF  
NORTH BENGAL

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## SOCIETAL MEMBERSHIP

- I. Deccan Geographers, Pune.
- II. National Association of Geographers(NAGI), Delhi.
- III. Institute of Landscape, Ecology and Ekistics (ILEE), Kolkata
- IV. Indian Society of Remote Sensing (ISRS), Dehradun

# DR. INDRAJIT ROY CHOWDHURY

## ASSISTANT PROFESSOR



## ABOUT ME

**Dr. Indrajit Roy Chowdhury** started his academic work in the field of Urban and Regional Planning, Transport Geography, GIS and remote sensing. He has more than 70 research publications in high-quality peer reviewed journals in the topics covering from urban environmental and infrastructural issues, regional planning, women empowerment and gender related issues in the various reputed international and national journals like International Journal of Humanities and Social Science Invention, International Journal of Research and Analytical Review, Geographical Review of India, Transactions, Indian Journal of spatial science and many other standard peer reviewed journals and edited books and monographs. Noteworthy to mention these publications are under the house of Elsevier, Sage and Springer entitled the Journal of Modelling Earth Systems and Environment, Arabian Journal of Geosciences and, Environmental Challenges, Sustainability, MDPI, Environment, Development and Sustainability, Springer, Geo-journal, Geo-Carto International, Current Research in Environmental Sustainability, Elsevier, Voice of Dalit, Sage and many more. Dr. Roy Chowdhury has published three edited volumes entitled 'Contemporary Regional Problems: Issues and Challenges (2020) Rajesh Publication, New Delhi, ISBN: 978-81-84687-25-7. Population, Development and Environmental Sustainability Challenges and Opportunities (2021): Rajesh Publication, New Delhi, ISBN: 978-93-91139-21-6 and Contemporary Issues of Urban Development in 21st Century: Planning and Practices (2022): Rajesh Publication, New Delhi, ISBN: 978-93-91139-48-3 His research has been funded by the Department of Science and Technology, Government of India and Government of West Bengal. Dr. Roy Chowdhury has recently completed a project on the '**Problem and Prospect and Opportunities of Homestay Tourism in Sub-Himalayan North Bengal**' funded by the University of North Bengal. Dr. Roy Chowdhury has been funded by ICSSR, New Delhi for Major Research Project, entitled '**Understanding Quality of Life (QoL) of the Tribe in the hilly region of Darjiling and Kalimong District, West Bengal, India: A Future Road Map Towards Sustainable Development**'. He has also been completed by another minor research project funded by the University of North Bengal entitled '**Assessment of Livelihood Status of Tribal Communities in Darjiling Himalayan Region: A Geographical Study**'. He has also supervised another funded collaborative project with AKD Centre of Planning and Development, Viswabharati University Shantiniketan, West Bengal India, entitled '**Effect of COVID 19 outbreak on the Quality of Life of the Toto Tribe in Madarihat-Birpara Block, Alipurduar District, West Bengal, India**'. He has served as a reviewer for many international journals. Dr. Roy Chowdhury did his graduation in Geography Honours from Asutosh College, Kolkata

## EDUCATION

 **UNIVERSITY OF CALCUTTA**  
B.Sc.  
2005

 **UNIVERSITY OF CALCUTTA**  
M.Sc.  
2007

## EDUCATION

 **UNIVERSITY OF CALCUTTA**  
B.Ed.  
2008

 **UNIVERSITY OF CALCUTTA**  
M.Ed.  
2009

## EDUCATION

 **UNIVERSITY OF CALCUTTA**  
Ph.D.  
2015

*Topic: Urban Transport and  
Related Emission in Kolkata  
City*

in 2005 and did his Masters in Geography from University of Calcutta in 2007. He was awarded Ph.D. degree by the University of Calcutta in 2015. His area of research in Ph.D. was '**Urban Transport and Vehicular Emissions in Kolkata city**'. A number of research scholars are also carrying out M.Phil. and Ph.D. research work under his supervision.

## EXPERIENCE

### ASSISTANT PROFESSOR (PRESENT)

Post Graduate Department of Geography & Applied Geography,  
University of North Bengal, Darjeeling, West Bengal  
(11.07.2017 to till date)

### ASSISTANT PROFESSOR

UG Department of Geography, Subarnarekha Mahavidyalaya,  
Jhargram, West Bengal  
(15.06.2017 to 10.07.2017)

### COLLEGE APPOINTED CONTRACTUAL WHOLE TIME TEACHER

UG & PG Department of Geography, Prabhu Jagatbandhu College,  
Howrah, West Bengal  
(05.01.2016 to 14.06.2017)

### GUEST LECTURER

UG Department of Geography Jadavpur university, Jadavpur, West  
Bengal  
(24.08.2015 to 04.01.2016)

### GUEST LECTURER

UG Department of Geography, Jogamayadevi College (Kolkata)  
(01.02.2013 to 31.06.2015)

### PART TIME LECTURER IN GEOGRAPHY

UG Department of Geography, Jotirmoyee School of Education  
(B.Ed.), Sonarpur  
(01.03.2014 to 31.12.2015)

### ASSISTANT CO-ORDINATOR

Netaji Subhas Open University  
(01.06.2013 to 31.05.2015)

### GUEST LECTURER

PG Department of Geography, Vidyasagar University (Distance  
Education) Jogamayadevi College(Kolkata)  
(01.02.2013)

### FULL TIME CONTRACTUAL LECTURER

## HONOURS & AWARDS

1. UGC-NET (2007, 2008)  
*Geography*
2. Young Scientist Award,  
International Conference,  
Organized by Department of  
Chemistry, Tribhuvandas  
University, Kathmandu,  
Nepal, December, 2015

## HONOURS & AWARDS

3. Best Paper  
Achievement Award  
in Social Science  
Category in 3rd  
Regional Science and  
Technology Congress,  
Department of  
Science, Technology  
and Bio-Technology,  
Government of West  
Bengal, 2018.

Under graduate (b.ed) Department of Geography, Jagadish  
Chandra basu siksha ksikshanmaha vidyalaya, Garfa.  
(01.03.2010-31-06-2011)

### ASSISTANT TEACHER

Dhulagori Adarsha Vidyalaya (Howrah)  
(17.11.2007-31.06.2012)

## PROFESSIONAL & CERTIFICATE EXPERIENCE

### STATISTICS

1. Passed a certificate course on "Understanding SPSS & its  
Application in Research", Organised A.K Dasgupta  
Centre for the Planning and Development, Visva Bharati,  
Santiniketan held on 4<sup>th</sup> to 8<sup>th</sup> September 2018.
2. Passed a certificate course on "2nd Workshop on  
Statistical Techniques Used in Research", Organised by  
Department of Statistics, The University of Burdwan, held  
on 21<sup>st</sup> to 24<sup>th</sup> February, 2017.

### GIS & REMOTE SENSING

1. One Week AICTE Sponsored Online Short-Term Training  
Programme on Basic of Remote Sensing, Geographical  
Information System (GIS) and Global Navigation Satellite  
System (GNSS), Organised by Francis Xavier Engineering  
College, 21-26 September 2020.
2. Passed a certificate course on "Introduction to Digital  
Photogrammetry", Organised by National Remote  
Sensing Centre (NRSC), Hyderabad, held on 22<sup>nd</sup> to 26<sup>th</sup>  
August 2016.
3. Passed a certificate course on "Open Source Software-  
Q- GIS", Organised by Webel and Opsis System, Kolkata,  
held on 18<sup>th</sup> May to 19<sup>th</sup> June 2016.
4. Passed a certificate course on "Open Source Software-  
Q- GIS", Organised by Webel and Opsis System, Kolkata,  
held on 18<sup>th</sup> May To 19<sup>th</sup> June 20 course on "Workshop  
on GPS and Total Station Survey" Organised by Webel  
and Opsis System, Kolkata, held on 18<sup>th</sup> And 19<sup>th</sup> June  
2016.
5. Passed a certificate course on "Certificate on Remote  
Sensing and GIS on 21<sup>st</sup> Century Software" Organised by

## SUBJECT SPECIALIZATION

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- Urban Geography
- Population Geography
- Environmental Geography
- Regional Planning & Development
- Transport Geography
- Geography of Tourism
- RS-GIS

## AREA OF RESEARCH INTEREST

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- Application of RS-GIS
- Social & Cultural Geography
- Geography of Rural development
- Human Geography
- Geography of Tourism
- Regional Planning and Development

## RESEARCH EXPERIENCE

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- No. of Ph.D. students:** (a) Supervised: 01 (b) Ongoing: 04.
- No. of M.Phil. Students:** (a) Awarded: 02 (b) Ongoing: 0
- No. of M.Sc. Dissertation:** (a) Supervised: 80

21st Century GIS Academy, Kolkata, held on May 2014 to September 2014.

## ADMINISTRATIVE EXPERIENCE

1. Programme Co-ordinator, IIRS-ISRO E-Learning Outreach Programme, University of North Bengal
2. Convener, Ministry of Earth Sciences, Government of India, Council of Scientific and Industrial Research, New Delhi and Indian Society of Remote Sensing Sponsored Three Days International Conference on Emerging Issues in Environment, Livelihood and Development: A Future Road Map towards Sustainable Earth, 26th to 28th January, 2024, Organised by Department of Geography & Applied Geography, University of North Bengal
3. Member of P.G Board of Studies, Department of Geography & Applied Geography, University of North Bengal
4. Member of Departmental Research Committee, Department of Geography & Applied Geography, University of North Bengal
5. Convener, Anti-Ragging Squad, University of North Bengal, Jalpaiguri Campus
6. Members, U.G board of studies, Department of Geography and Applied Geography, NBU
7. Organised Two Days National Seminar on "Environment, Development and Sustainability" as an Organising Secretary at North Bengal University, Jalpaiguri Campus, March, 2019.
8. Co-investigator, UGC SAP DRS-II programme on Disaster Management in Sub-Himalayan North Bengal, 2016-2021.
9. Core Committee members, Training and Placement cell.
10. Members, executive council, Indian society of remote sensing.
11. Working committee member, Visiting professors team, NBU.
12. Coordinator, Aikataan Cultural club, NBU.

## INVITED RESOURCE PERSON

1. Delivering Special Lecture in the ADD ON COURSE with Hands-on Teaching on the "Open Source Software" on March 3rd and 4th, 2023, Organised by Department of Geography, Surya Sen Mahavidyalaya, Siliguri
2. Delivering Special Lecture on "Indigenous Tribes of Sub-Himalayan North Bengal: An Unexplained Story about the Livelihood Experiences" on November, 4, 2023, Organised by Department of Geography, St. Xavier's College, Burdwan

## SERVE AS REVIEWER

-Environment, Development & Sustainability  
-Modeling Earth System & Environment,  
-Geojournal  
-Risk Analysis  
-Geographical Review of India  
-International Journal of Human Rights

3. Delivering Special Lecture on Scenario of Air Pollution in Siliguri City: Investigation and Road Map Towards Achieving Sustainable Environmental Goals in Two Days NABARD and ICSSR Sponsored National Seminar, Organised by Department of Geography, Dinhata College, March 15th and 16th, 2024

## LIST OF PUBLICATIONS

### RESEARCH PAPERS

1. Roy, S., Majumder, S., Bose, A., & Chowdhury, I. R. (2024). The rich-poor divide: Unravelling the spatial complexities and determinants of wealth inequality in India. *Applied Geography*, 166, 103267. <http://dx.doi.org/10.1016/j.apgeog.2024.103267>
2. Roy, S., Majumder, S., Bose, A., & Chowdhury, I. R. (2024). Hilly terrain and housing wellness: Geovisualizing spatial dynamics of urban household quality in the Himalayan town of Darjeeling, India. *Singapore Journal of Tropical Geography*. <http://dx.doi.org/10.1111/sjtg.12533>
3. Roy, S., Majumder, S., Bose, A., & Chowdhury, I. R. (2024). Spatial heterogeneity in the urban household living conditions: A-GIS-based spatial analysis. *Annals of GIS*, 1-24. <https://doi.org/10.1080/19475683.2024.2304194>
4. Roy, S., Majumder, S., Bose, A., & Chowdhury, I. R. (2024). Mapping the vulnerable: A framework for analyzing urban social vulnerability and its societal impact. *Societal Impacts*, 3, 100049. <https://doi.org/10.1016/j.socimp.2024.100049>
5. Majumder, S., & Chowdhury, I. R. (2024). Beyond the leaves: Unveiling the societal impact of research on the self-perceived quality of life among indigenous female tea garden workers. *Societal Impacts*, 3, 100028. <https://doi.org/10.1016/j.socimp.2023.100028>
6. Bose, A., & Chowdhury, I. R. (2024). Towards cleaner air in Siliguri: A comprehensive study of PM<sub>2.5</sub> and PM<sub>10</sub> through advance computational forecasting models for effective environmental interventions. *Atmospheric Pollution Research*, 15(2), 101976. <https://doi.org/10.1016/j.apr.2023.101976>
7. Roy, S., & Chowdhury, I. R. (2023). Three Decades of GIS Application in Spatial Crime Analysis: Present Global Status and Emerging Trends. *The*

- Professional Geographer, 1-23.  
<https://doi.org/10.1080/00330124.2023.2223250>
8. Roy, S., Majumder, S., Bose, A., & Chowdhury, I. R. (2023). GWPCA-based spatial analysis of urban vitality: a comparative assessment of three high-altitude Himalayan towns in India. *Journal of Spatial Science*, 1-28.  
<https://doi.org/10.1080/14498596.2023.2267011>
  9. Roy, S., & Chowdhury, I. R. (2023). Geography of crime against women in West Bengal, India: identifying spatio-temporal dynamics and hotspots. *GeoJournal*, 88(6), 5863-5895.  
<https://doi.org/10.1007/s10708-023-10946-y>
  10. Barman, M., & Chowdhury, I. R. (2024). Assessment of the Status of Sustainable Development of Tribal Livelihood in the Darjeeling Himalayan Region (DHR), West Bengal, India. *Indian Journal of Spatial Science*, 15(1), 110-123.
  11. Barman, M., & Chowdhury, I. R. (2023). Substance Uses and Associated Socio-demographic Factors Among Male Tribes and Non-Tribal Communities of Eastern and North Eastern States in India: An Evidence-Based Study from the National Family Health Survey-5. *Global Social Welfare*, 1-14.  
<https://doi.org/10.1007/s40609-023-00328-0>
  12. Bose, A., Roy, S., Majumder, S., & Chowdhury, I. R. (2023). Lost in the cityscape: Exploring urban homelessness, its societal imprints and policy suggestions. *Societal Impacts*, 1(1-2), 100026.  
<https://doi.org/10.1016/j.socimp.2023.100026>
  13. Das, S., Sharma, K. K., Majumder, S., & Chowdhury, I. R. (2023). Evaluating sustainable agricultural livelihood security in West Bengal, India: a principal component analysis approach. *Environment, Development and Sustainability*, 1-48.  
<https://doi.org/10.1007/s10668-023-04097-w>
  14. Basak, D., & Chowdhury, I. R. (2023). Exploring the Impact of Self-Help Groups on Empowering Rural Women: an Examination of the Moderating Role of Self-Help Group Membership Using Structural Equation Modeling. *Global Social Welfare*, 10(4), 299-311.
  15. Kayal, P., & Chowdhury, I. R. (2023). Bridging the Gap: A Deep Dive into Gender Disparity in Literacy through Sopher's Index in Islampur CD Block, Uttar Dinajpur District, West Bengal. *Journal of Survey in Fisheries Sciences*, 1326-1339.
  16. Roy, Subham, Arghadeep Bose, Debanjan Basak, and Indrajit Roy Chowdhury. "Towards sustainable society: the sustainable livelihood security (SLS) approach for prioritizing development and understanding

- sustainability: an insight from West Bengal, India." *Environment, Development and Sustainability* (2023): 1-32. <https://doi.org/10.1007/s10668-023-03456-x>
17. Roy, S., & Chowdhury, I. R. (2023). Three Decades of GIS Application in Spatial Crime Analysis: Present Global Status and Emerging Trends. *The Professional Geographer*, 1-23. <https://doi.org/10.1080/00330124.2023.2223250>
  18. Roy, Subham, Suranjan Majumder, Arghadeep Bose, and Indrajit Roy Chowdhury. "Does geographical heterogeneity influence urban quality of life? A case of densely populated Indian city." *Papers in Applied Geography*. (2023): 1-29. <https://doi.org/10.1080/23754931.2023.2225541>
  19. Majumder, Suranjan, Subham Roy, Arghadeep Bose, and Indrajit Roy Chowdhury. "Multiscale GIS based-model to assess urban social vulnerability and associated risk: Evidence from 146 urban centers of Eastern India." *Sustainable cities and Society* (2023): 104692. <https://doi.org/10.1016/j.scs.2023.104692>
  20. Bose, Arghadeep, Debanjan Basak, Subham Roy, Indrajit Roy Chowdhury, Hazem Ghassan Abdo, Mohammed Aldagheiri, and Hussein Almohamad. "Evaluation of Urban Sustainability through Perceived Importance, Performance, Satisfaction and Loyalty: An Integrated IPA–SEM-Based Modelling Approach." *Sustainability* 15, no. 12 (2023): 9788. <https://doi.org/10.3390/su15129788>
  21. Roy, S., Bose, A., Majumder, S., Roy Chowdhury, I., Abdo, H. G., Almohamad, H., & Abdullah Al Dughairi, A. (2022). Evaluating urban environment quality (UEQ) for class- I Indian city: an integrated RS-GIS based exploratory spatial analysis. *Geocarto International*, 2153932. <https://doi.org/10.1080/10106049.2022.2153932>
  22. Roy, S., Bose, A., & Chowdhury, I. R. (2022): Darkness Under the City Lights: A Qualitative Study on the life of Urban Homelessness, Evidences from Siliguri City of West Bengal, India, *Geojournal*, Springer, <https://doi.org/10.1007/s10708-022-10753-x>
  23. Roy, S., Singha, N., Bose, A., Basak, D., & Chowdhury, I. R. Multi-influencing factor (MIF) and RS–GIS-based determination of agriculture site suitability for achieving sustainable development of Sub-Himalayan region, India. *Environ Dev Sustain* (2022). <https://doi.org/10.1007/s10668-022-02360-0>
  24. Muhammad. S, Bose, A., Basir. B, Basak, D, Roy, S, Chowdhury, I. R, Als Salman. &A, Tsurusaki. N (2021) Urban Expansion Simulation Based on Various Driving Factors Using a Logistic Regression Model: Delhi as a Case Study,


- Sustainability*, MDPI Journal, *Sustainability* 2021, 13(19), 10805; <https://doi.org/10.3390/su131910805>
25. Basak, D, Bose, A, Roy, S., & Chowdhury, I. R. (2021). Understanding Sustainable Homestay Tourism as a Driving Factor of Tourist Satisfaction through Structural Equation Modelling: A Case of Darjeeling Himalayan, Region, India, *Current Research in Environmental Sustainability*, Elsevier, Volume 3, 2021, 100098, <https://doi.org/10.1016/j.crsust.2021.100098>
  26. Roy, S., Bose, A., Singha, N., Basak, D., & Chowdhury, I. R. (2021). Urban waterlogging risk as an undervalued environmental challenge: An Integrated MCDA-GIS based modeling approach. *Environmental Challenges*, 4, 100194. <https://doi.org/10.1016/j.envc.2021.100194>
  27. Roy, S., Bose, A., & Chowdhury, I. R. (2021). Flood risk assessment using geospatial data and multi-criteria decision approach: a study from historically active flood-prone region of Himalayan foothill, India. *Arabian Journal of Geosciences*, 14(11), 1-25. 10.1007/s12517-021-07324-8. <https://doi.org/10.1007/s12517-021-07324-8>
  28. Kayal, P., Majumder, S., & Chowdhury, I. R. (2022). Modeling the spatial pattern of potential groundwater zone using MCDM-AHP and geospatial technique in sub-tropical plain region: a case study of Islampur subdivision, West Bengal, India. *Sustainable Water Resources Management*, 8(6), 185. DOI: <https://doi.org/10.1007/s40899-022-00759-1>
  29. Majumder, S., Kayal, P., Chowdhury, I. R., & Das, S. (2022). Regional disparities and development in India: evidence from Wroclow Taxonomy and K-means clustering. *Geo Journal*, 1-34. DOI: <https://doi.org/10.1007/s10708-022-10805-2>
  30. Roy, S., Basak, D., Bose, A., & Chowdhury, I. R. (2023). Citizens' perception towards landfill exposure and its associated health effects: a PLS-SEM based modeling approach. *Environmental Monitoring and Assessment*, 195(1), 1-19. <https://doi.org/10.1007/s10661-022-10722-4>
  31. Majumder, S., & Chowdhury, I. R. (2023). Quality of Life and Associated Determinants among Female Tea Garden Workers of Indigenous Communities in Sub-Himalayan West Bengal, India: A Cross-Sectional Mixed Methods. *Contemporary Voice of Dalit*, <https://doi.org/10.1177/2455328X221150627>
  32. Majumder, S., Roy, S., Bose, A., & Chowdhury, I. R. (2022). Understanding regional disparities in healthcare quality and accessibility in West Bengal, India: A multivariate analysis. *Regional Science Policy & Practice*. <https://doi.org/10.1111/rsp3.12607>
  33. Bose, A., & Roy Chowdhury, I. (2023). Investigating the association between air pollutants' concentration and



meteorological parameters in a rapidly growing urban center of West Bengal, India: a statistical modeling-based approach. *Modeling Earth Systems and Environment*, 1-16. <https://doi.org/10.1007/s40808-022-01670-6>

34. Bose Arghadeep & Roy Chowdhury, Indrajit (2020): Monitoring and Modelling of Spatio temporal Urban Expansion and Land use / land cover change using markov chain model: A case Study in Siliguri Metropolitan Area, West Bengal, India, *Modelling earth System and Environment*, Springer, ISSN:2363-6203 <https://link.springer.com/article/10.1007/s40808-020-00842-6>
35. Chowdhury, Debarati, and Indrajit Roy Chowdhury. "Knowledge and Practices of Menstrual Hygiene of the Adolescent Girls of Slums in Siliguri City, India: A Cross-Sectional Study." *Global Social Welfare* 10, no. 2 (2023): 167-179. <https://doi.org/10.1007/s40609-023-00281-y>
36. Barman, M & Chowdhury, I.R. (2023). Assessing the Quality of Life (QOL) of Scheduled Tribes in Darjiling District of West Bengal using World Health Organization Quality of Life (WHOQOL)- 100. 14.
37. Basak Debanjan & Roy Chowdhury, Indrajit (2020): Achievement and Failure of MGNREGA (Financial Year: 2017-18) at Panchayat Level with Special Reference to Nishiganj Gram Panchayat, Mathabhanga II Block, Coochbehar District, West Bengal, *Geographical Thought*, An Annual Journal of Department of Geography & Applied Geography, University of North Bengal, ISSN: 2229-466X, Volume: XVIII, 2020.
38. Bose Arghadeep & Roy Chowdhury, Indrajit (2020): Mukha: The Art of Wooden Mask Associated with Economic and Social Empowerment of the Rural Mukha Makers: A Case Study of Kushmandi Block, Dakshin Dinajpore, *Geographical Thought*, An Annual Journal of Department of Geography & Applied Geography, University of North Bengal, ISSN: 2229-466X, Volume: XVII,2019.
39. Roy Chowdhury, Indrajit (2020): Societal Representation of Folk Culture: A Case of Chhow Mask Makers in Charida Village, Purulia, West Bengal, *Geographical Thought*, An Annual Journal of Department of Geography & Applied Geography, University of North Bengal, ISSN: 2229-466X, Volume: XVI,2018
40. Chowdhury, I.R (2018): Future Prospect of AMRUT: A New Initiative for Good Governance in Urban Spheres of West Bengal, *The Observer*, The Students Geographical Association, Department of Geography, University of Calcutta,

41. Chowdhury, I.R (2017):Profile of e-rickshaw Services as a Green Mode of Transport: A Case Study of Andul-Mouri Suburban Area, Howrah *The Observer*, The Students Geographical Association, Department of Geography, University of Calcutta, Vol:53, ISSN:2230-9535
42. Chowdhury, I.R & Chatterjee Riyanka (2016): Development and Environment: Are They Contradictory? A Case Study of Manali Town, *The Observer*, The Students Geographical Association, Department of Geography, University of Calcutta, Vol:53, ISSN:2230-9535.
43. Basak Debanjan & Roy Chowdhury, Indrajit (2020): Achievement and Failure of MGNREGA (Financial Year: 2017-18) at Panchayat Level with Special Reference to Nishiganj Gram Panchayat, Mathabhanga II Block, Coochbehar District, West Bengal, *Geographical Thought*, An Annual Journal of Department of Geography & Applied Geography, University of North Bengal, ISSN: 2229-466X, Volume: XVIII, 2020
44. Basak Debanjan & Roy Chowdhury, Indrajit (2019): Geographical Accounts of Rural Livelihood and sustainability: A Case Study of Sital Pati makers of Ghugumari Village, Koch Bihar District, *International Journal of Research and Analytical Reviews (IJRAR)*, Volume 6, Issue 2, PP. 158- 166, ISSN: 2349-5138.
45. Bose Arghadeep& Roy Chowdhury, Indrajit (2019): Impact of Expansion of Bypass Road for Asian Highway Development Project (AH) on Temporal Change detection of Land Use and Land Cover along the Linear Corridor of Siliguri- Jalpaiguri: A Geo-Spatial Analysis, *International Journal of Research and Analytical Reviews (IJRAR)*, Volume 6, Issue 2, PP. 176-190, ISSN:2349-5138.
46. Rajbangshhi Nirmal & Roy Chowdhury, Indrajit (2019): Man-Animal Conflict in North Bengal With Special Reference to Jharmatiali And Uttarkalamati Village Along The Forest Fringe Area of Gorumara National Park, *International Journal of Research and Analytical Reviews (IJRAR)*, Volume 6, Issue 2, PP. 87-101, ISSN: 2349-5138.
47. Chanda Santanu & Roy Chowdhury, Indrajit (2019): Measurement and Monitoring of Road Traffic Congestion at Siliguri Air View More Traffic Intersection Point: A Geo- Planning Perspective, *International Journal of Research and Analytical Reviews*, Vol: 6, Issue: 1, PP. 161-172, ISSN: 2349- 5138.

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48. Pradhan Subhojit & Roy Chowdhury, Indrajit (2019): A Geo-Planning Appraisal of Acute Water Scarcity and Associated Problems in Selected CD Blocks of Bankura District: West Bengal, International Journal of Research and Analytical Reviews, Vol: 6, Issue: 1, PP. 173-187, ISSN:2349-5138
  49. Roy Chowdhury, Indrajit (2019): Rural Planning and Associated Development: A Micro Level Case Study of Aushgram I and II Block, Burdwan district, West Bengal, International Journal of Basic and Applied Research, ISSN:2278-0505
  50. Kayal Prosenjit & Roy Chowdhury, Indrajit (2018): Level of Human Development of Raiganj C.D Block, Uttar Dinajpur District, West Bengal: A Geographical Analysis, International Journal of Research and Analytical Reviews, Vol: 5, Issue: 4, PP. 619- 628, ISSN:2349-5138
  51. Ghosal Soumik & Roy Chowdhury, Indrajit (2018): Land Degradation and its Possible Consequences on the Environment: A Case Study of Amta Gram Panchyat, Haora, West Bengal, International Journal of Research and Analytical Reviews, Vol: 5, Issue: 4, PP. 619-628, ISSN:2349-5138.
  52. Chowdhury, I.R (2018): Future Prospect of AMRUT: A New Initiative for Good Governance in Urban Spheres of West Bengal, The Observer, The Students Geographical Association, Department of Geography, University of Calcutta, Vol:53, ISSN:2230-9535.
  53. Chowdhury, I.R (2017): Profile of e-rickshaw Services as a Green Mode of Transport: A Case Study of Andul- Mouri Suburban Area, Howrah The Observer, The Students Geographical Association, Department of Geography, University of Calcutta, Vol:53, ISSN:2230-9535
  54. Chowdhury, I.R & Chatterjee Riyanka (2016): Development and Environment: Are They Contradictory? A Case Study of Mandali Town, The Observer, The Students Geographical Association, Department of Geography, University of Calcutta, Vol:53, ISSN:2230-9535.
  55. Chowdhury I.R (2016): Scenario of Traffic Noise Pollution and its Impact on Human Health: An Empirical Case Study of Kolkata City, International Journal of Current Research, Vol: 8, Issue: 06, June, ISSN:0975-833X
  56. Chowdhury, I.R (2016): Scenario of On Street Parking Demand: A Case Study of Kolkata City, India, Research

Journal of Recent Science, International Science Community Association, Vol: 5, ISSN-2277-2502.

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## DETAILS OF CONFERENCES & SEMINARS

1. Dr. Indrajit Roy Chowdhury (2024): "Exploring the Geographical Tapestry of Non-Communicable Disease-Induced Morbidity in the Elderly : A Cross-Sectional Inquiry in Islampur CD Block, West Bengal, India", Ministry of Earth Sciences, Government of India, Council of Scientific and Industrial Research, New Delhi and Indian Society of Remote Sensing Sponsored Three Days International Conference on Emerging Issues in Environment, Livelihood and Development: A Future Road Map towards Sustainable Earth, 26th to 28th January, 2024, Organised by Department of Geography & Applied Geography, University of North Bengal
2. Dr. Indrajit Roy Chowdhury (2024): "Exploring Livelihood Sustainability among Oraon Tribes in Mal Sub-Division, Jalpaiguri District, West Bengal" Ministry of Earth Sciences, Government of India, Council of Scientific and Industrial Research, New Delhi and Indian Society of Remote Sensing Sponsored Three Days International Conference on Emerging Issues in Environment, Livelihood and Development: A Future Road Map towards Sustainable Earth, 26th to 28th January, 2024, Organised by Department of Geography & Applied Geography, University of North Bengal
3. Dr. Indrajit Roy Chowdhury (2023): "From Tea Garden to Livelihood Substances: The Dynamics of Livelihood diversification and Household Strategies among Oraon Tribe in Sub-Himalayan North Bengal" International Conference on Environment, Culture and Ethnic Diversity: Narratives from Himalays and Sub-Himalayan Regions, Organised by Department of Anthropology, University of North Bengal, December 15th to 16th, 2023
4. Dr. Indrajit Roy Chowdhury (2023): "A Study on the Livelihood Conditions and Quality of Life of the Selected Tribal Communities in the Hilly Region of Darjeeling and Kalimpong Districts, West Bengal: A Cross Sectional Study" International Conference on Environment, Culture and Ethnic Diversity: Narratives from Himalays and Sub-Himalayan Regions, Organised by Department of Anthropology, University of North Bengal, December 15th to 16th, 2023
5. Dr. Indrajit Roy Chowdhury (2023): "A Path to Resilience: Examining Household Based Sustainable Livelihood Status Among the Oraon Community in Sub-Himalayan North

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- Bengal" Two Days ICSSR-ERC Sponsored National Seminar on Urbanisation, Urban Environment and Sustainability in Himalayan and Sub-Himalayan North Bengal, Organised by Department of Geography & Applied Geography, University of North Bengal, July 1st to 2nd, 2023
6. Dr. Indrajit Roy Chowdhury (2023): "Exploring the Perceptions of Safety among Urban Residents in Siliguri City: A Case Study" Two Days ICSSR-ERC Sponsored National Seminar on Urbanisation, Urban Environment and Sustainability in Himalayan and Sub-Himalayan North Bengal, Organised by Department of Geography & Applied Geography, University of North Bengal, July 1st to 2nd, 2023
  7. Dr. Indrajit Roy Chowdhury (2023): "Towards Cleaner Air in Siliguri: A Comprehensive Study of PM 2.5 and PM 10 through Advance Computational Forecasting Models for Effective Environmental Interventions" Two Days ICSSR-ERC Sponsored National Seminar on Urbanisation, Urban Environment and Sustainability in Himalayan and Sub-Himalayan North Bengal, Organised by Department of Geography & Applied Geography, University of North Bengal, July 1st to 2nd, 2023
  8. Dr. Indrajit Roy Chowdhury (2023): "Measuring the Role of Self-Help groups on Rural Women Empowerment: A Structural Model Analysis: Does the Self-Help Group Membership Moderate the Relationship?" Two Days ICSSR-ERC Sponsored National Seminar on Urbanisation, Urban Environment and Sustainability in Himalayan and Sub-Himalayan North Bengal, Organised by Department of Geography & Applied Geography, University of North Bengal, July 1st to 2nd, 2023
  9. Dr. Indrajit Roy Chowdhury (2023): "Inequalities of Enrolment of Higher Education between ST and Non-ST Community: A Geographical Study in India" Two Days ICSSR-ERC Sponsored National Seminar on Urbanisation, Urban Environment and Sustainability in Himalayan and Sub-Himalayan North Bengal, Organised by Department of Geography & Applied Geography, University of North Bengal, July 1st to 2nd, 2023
  10. Dr. Indrajit Roy Chowdhury (2023): "Menstrual Hygiene Practice and Awareness among Adolescent Girls in Slum of Siliguri City: A Comprehensive Assessment " Two Days ICSSR-ERC Sponsored National Seminar on Urbanisation, Urban Environment and Sustainability in Himalayan and Sub-Himalayan North Bengal, Organized by Department of Geography & Applied Geography, University of North Bengal, July 1st to 2nd, 2023
  11. Dr. Indrajit Roy Chowdhury (2023): "Findings the Association between Meteorological Parameters and Air Pollutants Concentration in Rapidly Expanding Siliguri City: A Statistical Modeling Based Approach" 5th Regional Science and Technology Congress,2022-23, Jointly Organized by University

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12. Dr. Indrajit Roy Chowdhury (2022): "Determinants of Gender-Specific Enrolment Status in Higher Education: A Study in Rural Perspective" International Seminar on Essence of Geography: What, Where, Why and How, organized by Department of Geography, Cooch Behar Panchanan Barma University, November 11th to 12th, 2022
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14. Dr. Indrajit Roy Chowdhury (2022): "Inter Districts Analysis of Maternal & Child Nutritional Status of Scheduled Tribe Population in West Bengal: A Comparative Study of Two Round NFHS Data (NFHS-IV & V) " International Seminar on Essence of Geography: What, Where, Why and How, organized by Department of Geography, Cooch Behar Panchanan Barma University, November 11th to 12th, 2022
15. Dr. Indrajit Roy Chowdhury (2022): "Determinants of Child Nutritional Status Among Scheduled Tribes in West Bengal" International Conference on Social and Regional Resilience: Looking Through the Pandemic Lens, Organised by Tata Institute of Social Sciences, Mumbai, December 14th to 16th, 2022
16. Roy Chowdhury, Indrajit (2008): "A Way to Rural Development at Kotghi Village in Rudraprayag District" Poverty and Development in South Asia, International Seminar, Organised by ILEE, University of Calcutta.
17. Roy Chowdhury, Indrajit (2010): "Vehicular Emissions and Its Effect on Human Health in Kolkata City" Ganga Delta: Planning Perspective, National Seminar, Organised by SAP DRS I, Department of Geography, University of Calcutta.
18. Roy Chowdhury, Indrajit (2010): "Modern Methods for the Study of Human Development Prospect Rudraprayag, Auli Areas, Uttaranchal" Research Method and Techniques for Sustainable Development in India, National Conference, Organised by ILEE, University of Calcutta.
19. Roy Chowdhury, Indrajit (2011): "Efficiency of Bus Services and Its Role on Rural Urban Linkages" Technology, Energy and Sustainable Rural Development, International Conference, Organised by Benaras Hindu University
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  22. Roy Chowdhury, Indrajit (2012): "Waste Water Treatment and Management: A Case Study of East Kolkata Wetland" Dimensions of Development and Resource Conservation, International Seminar, Organised by East Kolkata Wetland Development Board, Kolkata
  23. Roy Chowdhury, Indrajit (2012): "Slums as a Hindrance to Urban Growth: A Case Study of Kolkata City" National Association of Geographers India (NAGI) 33rd Indian Geography Congress, National Conference.
  24. Roy Chowdhury, Indrajit (2012): "Cycle Rickshaw as a Green Vehicle: A Case Study of Kolkata City" IGU Conference, Kerala, National Conference, Organised by Institute of Social Science Studies, Kerala.
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  26. Roy Chowdhury, Indrajit (2014): "Sarva Siksha Mission and Primary Education in Kolkata" Osmania University, Hyderabad, National Conference.
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  54. Roy Chowdhury, Indrajit (2018) "Road Traffic Congestion and its Detrimental Impact on Environment of Siliguri City: A Geo Environmental Perspective" 3rd Regional Science and Technology Congress, Department of Science, Technology and Bio-technology, Government of West Bengal, state Conference.
  55. Roy Chowdhury, Indrajit & Pradhan Subhajit (2019) "Water Scarcity and Drinking Water Problem in Some Selected Community Blocks of Bankura District, West Bengal" Department of Geography & Applied Geography, University of North Bengal , Jalpaiguri Campus, March 15-16, 2019, National Conference.

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57. Roy Chowdhury, Indrajit & Bhanja Bipul (2019) "An Appraisal of Socio-Economic Status of Gosaba Region, Sundarban, West Bengal: An Empirical Study" Department of Geography & Applied Geography, University of North Bengal, Jalpaiguri Campus, March 15-16, 2019, National Conference.
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60. Roy Chowdhury, Indrajit & Basak Debanjan (2019) "Selection of Solid Waste Landfill Suitability Site Using Geographic Information System and Remote Sensing: A Case Study of Cooch Behar Municipality" 4th Regional Science and Technology Congress, Department of Science, Technology and Bio-technology, Government of West Bengal, State Conference.
61. Roy Chowdhury, Indrajit & Bose Arghadeep (2019) "Dynamic Simulation of Urban Expansion Through Markov Chain Modelling and Machine Learning : A Case Study of Siliguri and Adjacent Buffering Domain" 4th Regional Science and Technology Congress, Department of Science, Technology and Bio-technology, Government of West Bengal, state Conference
62. Roy Chowdhury, Indrajit & Rahaman Mijanur (2019) "Delineation of Flood Prone Area Using Geo Spatial Techniques: A Case Study of Alipurduar District, West Bengal, India" 4th Regional Science and Technology Congress, Department of Science, Technology and Biotechnology, Government of West Bengal, State Conference.
63. Roy Chowdhury, Indrajit (2019) "Delineation of Flood Prone Areas Using Remote Sensing and GIS Technique : A Case Study of Alipurduar District, West Bengal, India " 31st IGI Conference and National Seminar on Applications of Geospatial Technology in Geomorphology and Environment, Department Geography & Applied Geography, University of North Bengal, November 12-14, 2019
64. Roy Chowdhury, Indrajit & Basak Debanjan (2019) "Future Prediction Modelling on Land Use and Land Cover Changes

- and its Impact on Natural Habitat: A Case Study of JorePokhri Wild Life Sanctuary, Darjeeling, west Bengal, India " 31st IGI Conference and National Seminar on Applications of Geospatial Technology in Geomorphology and Environment, Department Geography & Applied Geography, University of North Bengal, November 12-14, 2019
65. Roy Chowdhury, Indrajit & Rajbangshi Nirmal (2019) "Role of Local People for Sustainable Forest Management: A Case Study on Lataguri Forest Fringe and Adjoining Area" 31st IGI Conference and National Seminar on Applications of Geospatial Technology in Geomorphology and Environment, Department Geography & Applied Geography, University of North Bengal, November 12-14, 2019
66. Roy Chowdhury, Indrajit & Bose Arghadeep (2019) "Urban Growth Dynamics Using Remote Sensing to Propose Future Urban Growth in Siliguri and Adjacent Buffering Domain: A Case Study" 31st IGI Conference and National Seminar on Applications of Geospatial Technology in Geomorphology and Environment, Department Geography & Applied Geography, University of North Bengal, November 12-14, 2019.
67. Roy Chowdhury, Indrajit & Mustafi Subham (2021) "Assessment of Spatio-temporal Changes of Urban Green Space: A Case of Kolkata Municipal Corporation" 40th INCA International Congress on "Digital Mapping Innovation in Make India Initiatives, Organised by National Atlas Thematic Mapping Organisation in collaboration with INCA, India, February 10-12, 2021
68. Roy Chowdhury, Indrajit & Kayal Prasenjit (2021) "Impact of Frequent Cyclonic Storm on Land Use and Land Cover Changes along the Coastal Areas of Indian Sundarban Using Multi-Temporal Remote Sensing Data" 40th INCA International Congress on "Digital Mapping Innovation in Make India Initiatives, Organised by National Atlas Thematic Mapping Organisation in collaboration with INCA, India, February 10-12, 2021.

## DETAILS OF WORKSHOPS

1. International Symposium on Challenges of Urbanisation and Planning in China and India, organised by Department of Geography, University of Calcutta held on 2nd and 3rd January 2017.
2. 2nd Workshop on Statistical Techniques Used in Research, organised by Department of Statistics, the University of Burdwan held on 21st to 24th February 2017.
3. Introduction to Digital Photogrammetry, organised by National Remote Sensing Centre (NRSC) held on 22nd to 26th August 2016.



4. Open Source Software-Q- GIS, organised by Webel and Opsis System, held on 18th may to 19th June 2016.
5. Workshop on GPS and Total Station Survey, organised by Webel and Opsis system, held on 18th and 19th June 2016.
6. UGC Sponsored National Seminar on Education, Skill Development and Economic Growth in India, organised by Department of Economics, Prabhu Jagat Bandhu College, held on 6th and 7th December, 2016.
7. National Seminar on Geography and Development, organised by Department of Geography and Applied Geography, University of North Bengal, Jalpaiguri Campus, held on 1st March, 2020.
8. One Day Webinar on Air Quality During lockdown: Experience of West Bengal, organised by Department of Geography, Sahid Matangini Hazra Government College for women, West Bengal, 2nd October, 2020.
9. Geographical Perspective of Water Resource and Challenges, organised by Russian Geographical Society and The National Association of Geographers, India (NAGI), held on 16th July, 2020.
10. International Webinar on Covid-19 Pandemic: A Geo Ecological Perspective, organised by Foundation of Practicing Geographer, Kolkata, held on 26th and 27th September, 2020. An Open Air State Level Workshop on Environment, River and Man, organised by Department of Geography, Siliguri Mahila Mahabidyalaya, Siliguri, Darjeeling, held on 21st September, 2019

## LIST OF PROJECTS

No	Name of the project and Reference No	Funding Agency/Division	Cost (in lakhs) & Duration	Status
1	Homestay Tourism in North Bengal: Problems and Potentialities (Ref. memo no. 2048/ R-2020 dated 03/07/2020, FY 2020-2021)	University of North Bengal	150000	Completed
2	Assessment of livelihood conditions of tribal communities in Darjiling Himalayan region: A geographical Study (Vide Ref. No. 2299/ R-2022 dated	University of North Bengal	150000	Completed

	<b>17/05/2022, FY 2022-2023)</b>			
3	A study on the effect of covid-19 pandemic & future adaptation strategies on the livelihood of Toto community in sub-Himalayan North Bengal. <b>(Ref. No. AKD/RP/001/2022-23 dated 19/07/2022, FY 2022-2023)</b>	AKD center for planning and development, Visvabharati University, West Bengal	20,000	<b>Completed</b>
4	21 days National Winter School (level-1) program on "Geospatial Science and Technology" <b>(File No. NRDMS/11/1848/011/L-1/17)</b>	Department of Science and Technology (DST), under National Geospatial Program (NGP), New Delhi	10,00,000	<b>Completed</b>
5	Understanding Quality of Life (QoL) of the Tribes in the Hilly Region of Darjiling- Kalimpong District, West Bengal: A Future Road Map for the Sustainable Development <b>(F.No. Gen-32/2021-22/ICSSR/RP)</b>	Indian Council of Social Science Research (ICSSR)	6,50,000	<b>Completed</b>

## SUPERVISING SCHOLARS

<b>Scholars Name</b>	<b>Title of Thesis</b>	<b>Ph.D./ M.Phil.</b>	<b>Fellowship status</b>	<b>Date of Registration</b>
Arghadeep Bose	Urban Transport and Associated Vehicular Emissions in Siliguri City	<b>Ph.D. (submitted)</b>	NTA UGC NET-JRF	02.01.2019
Debanjan Basak	Role of Self Help Groups on Socio-Economic Empowerment of Rural Women: A study in Mathabhanga Subdivision, Koch Bihar District, West Bengal	<b>Ph.D. (ongoing)</b>	NTA UGC NET-JRF	02.01.2019
Suranjan Majumder	A Geographical Study on	<b>Ph.D. (ongoing)</b>	NTA UGC NET-JRF	02.01.2020

	Livelihood Status and Associated vulnerabilities of Oraon tribe in Mal Subdivision, Jalpaiguri District, West Bengal			
Prosenjit Kayal	Strategies for the Development of Rural Livelihood in Islampur C.D. Block, Uttar Dinajpur District, West Bengal: A Geographical Study	<b>Ph.D. (ongoing)</b>	NTA UGC NET-JRF	02.01.2020
Subham Roy	Spatial Dynamics of Urban Crime in Siliguri City, West Bengal: A GIS-Based Analysis	<b>Ph.D. (ongoing)</b>	NTA UGC NET-JRF	28.02.2024
Nirmal Rajbanshi	Role of Forest Protection Committees in the Managements of Forests: A Study on Lataguri Forest Range Under Mal Subdivision, Jalpaiguri District, West Bengal	<b>M.Phil. (awarded)</b>	SVMCM	03.01.2019
Subham Mustafi	Spatio-Temporal Study of Urban Green Space in Kolkata Municipal Corporation	<b>M.Phil. (awarded)</b>	NTA UGC NET-JRF	02.01.2020

## EXTERNAL LINKS

Scopus id:

<https://www.scopus.com/authid/detail.uri?authorId=57217135397>

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Research Gate Profile:

[https://www.researchgate.net/profile/Indrajit\\_Roy\\_Chowdhury](https://www.researchgate.net/profile/Indrajit_Roy_Chowdhury)

Google Scholar citations:

<https://scholar.google.com/citations?user=EmOBE60AAAAJ&hl=en&authuser=3&oi=ao>

Web of Science id :

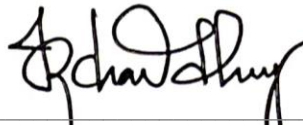
<https://www.webofscience.com/wos/author/record/AAZ-4853-2021>

## SKILLS



## Declaration

I, Dr. Indrajit Roy Chowdhury, hereby declare that the information contained herein is true and correct to the best of my knowledge and belief.



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