

Kalipada Ghosh Tarai Mahavidyalaya
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West Bengal, India

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Dr Suwendu Roy

Assistant Professor [GEOGRAPHY]

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Skills

Anthropogeomorphological and Applied Geoscience Research; Application of RS – GIS on Landscape Study

Area of Teaching

Geomorphology, Hydrology, Remote Sensing & GIS, Spatial Statistics, Research Methodology

Teaching Experience

Current Affiliation

14th June 2017 – Still Present : Assistant Professor, Department of Geography, KGTM

[Vice-President of Young Geomorphologists Forum – 2021 of Indian Institute of Geomorphologists affiliated by International Association of Geomorphologists (IAG)]

Ph.D. Guidance

Permitted for Supervision of Ph.D. Scholars under Dept. of Geography, University of North Bengal

Focus area of Research: Applied Geomorphology and Anthropogeomorphology

Education

Ph.D. **3rd August 2018**

Title: **“HUMAN INTERFERENCES IN CHANGING RIVER MORPHOLOGY: A STUDY IN THE KUNUR RIVER BASIN, BARDDHAMAN DISTRICT, WEST BENGAL”**

Department of Geography, University of Kalyani (W.B., India) – as UGC JRF & SRF

Supervised by: Dr. Abhay Sankar Sahu, Assistant Professor, Department of Geography, University of Kalyani

Post-Graduate **2012**

Department of Geography, The University of Burdwan, W.B., India

Specialization In: Advanced Geomorphology

Publication

PUBLICATION METRICS

For all Time

Book	Paper/Article	Chapter	Total Citation
01	18	07	204 (h-10)

BOOK

1. *Anthropogeomorphology of Bhagirathi-Hooghly River System in India*

Year: **2021**; Book: 1st Edition; Page: 1 – 584; Publisher: CRC Press, Taylor & Francis Group

SELECTED ARTICLES

2. *Impact of linear transport infrastructure on fluvial connectivity across the catchments of West Bengal, India*

Year: **2021**; Journal: Geocarto International, DOI: [10.1080/10106049.2021.1903576](https://doi.org/10.1080/10106049.2021.1903576); Page: 1 – 26; Publisher: Taylor & Francis Group

3. *Road-stream crossing an in-stream intervention to alter channel morphology of headwater streams: case study*

Year: **2018**; Journal: International Journal of River Basin Management, Vol. (No): 16(1), Page: 1 – 19; Publisher: Taylor & Francis Group

4. *Potential Interaction between Transport and Stream Networks over the Lowland Rivers in Eastern India*

Year: **2017**; Journal: Journal of Environmental Management, Vol.: 197, Page: 316 – 330; Publisher: Elsevier

5. Effect of land cover on channel form adjustment of headwater streams in a lateritic belt of West Bengal (India)

Year: **2016**; Journal: *International Soil and Water Conservation Research*, Vol. (No): 4(4), Page: 267 – 277; Publisher: Elsevier

6. Morphotectonic Map Generation using Geo-Informatics Technology: Case Study over the Ajay-Damodar Interfluvium, West Bengal, INDIA

Year: **2016**; Journal: *Arabian Journal of Geoscience*, Vol. (No): 9(183), Page: 1 – 18; Publisher: Springer International

7. Effectiveness of Basin Morphometry, Remote Sensing, and Applied Geosciences on Groundwater Recharge Potentiality Mapping: A Comparative Study within a Small Watershed

Year: **2015**; Journal: *Frontiers of Earth Science*, Vol. (No): 10(2), Page: 274 – 291; Publisher: Springer International

8. Palaeo-path Investigation of the Lower Ajay River (India) using Archaeological Evidence and Applied Remote Sensing

Year: **2015**; Journal: *Geocarto International*, Vol. (No): 31(9), Page: 966 – 984; Publisher: Taylor & Francis Group

9. Quaternary Tectonic Control on Channel Morphology over Sedimentary Low Land: A Case Study in the Ajay-Damodar Interfluvium of Eastern India

Year: **2015**; Journal: *Geoscience Frontiers*, Vol. (No): 6(6), Page: 927 – 946; Publisher: Elsevier

10. Estimation of Peak Flood Discharge for an Ungauged River: A Case Study of the Kunur River, West Bengal

Year: **2013**; Journal: *Geography Journal*, Vol. (No): 2013, Page: 1 – 11; Publisher: *Hindawi International*

SELECTED CHAPTERS

14. Preliminary Insights on the Dynamics of Flow Regime and Sediment Flux in Drainage Basin Study

Year: **2022**; Book: *Drainage Basin Dynamics: An Introduction to Morphology, Landscape and Modelling*, 1st Edition, Edited: Shit, P.K. et al.; Publisher: Springer Nature International

15. Anthropogeomorphological Signatures over the Ajay River Basin

Year: **2021**; Book: *Anthropogeomorphology of Bhagirathi-Hooghly River System in India*, 1st Edition, Edited: Das, B.C. et al.; Page: 189 – 213; Publisher: CRC Press, Taylor & Francis Group

16. Influence of Road-Stream Crossing on the Initiation of Gully: Case Study from the Terai Region of Eastern India

Year: **2020**; Book: *Gully Erosion Studies from India and Surrounding Regions*, 1st Edition, Edited: Shit, P.K. et al.; Page: 251 – 263; Publisher: Springer Nature International

17. Influence of Faulting on the Extra-Channel Geomorphology of the Ajay-Damodar Interfluvium in Lower Ganga Basin

Year: **2019**; Book: Quaternary Geomorphology in India: Case Studies from the Lower Ganga Basin, 1st Edition, Edited: Das, B.C. et al.; Page: 79 – 87; Publisher: Springer Nature International

18. Geophysical Control on the Channel Pattern Adjustment in the Kunur River Basin of Western Part of Lower Ganga Basin

Year: **2019**; Book: Quaternary Geomorphology in India: Case Studies from the Lower Ganga Basin, 1st Edition, Edited: Das, B.C. et al.; Page: 89 – 103; Publisher: Springer Nature International

19. Effect of Longitudinal Disconnection on In-stream Bar Dynamics: A study at selected road-stream crossings of Ajay River

Year: **2016**; Book: Neo-Thinking on Ganges-Brahmaputra Basin Geomorphology, 1st Edition, Edited: Das, B.C. et al.; Page: 81 – 97; Publisher: Springer Nature International

Conference

For all Time

Organized 00	Paper Presented 16	Participated 10	Abroad 00
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1. Disturbances in Fluvial Connectivity by Transport Infrastructure across the Catchments of West Bengal, India

Year: **2021** [21st – 23rd January]; Event Name: 32nd **National** Conference of the Indian Institute of the Geomorphologists (IGI); Focal Theme: Geomorphology for Human Adaptation to Changed Environment; Organizer: Department of Geography, West Bengal State University (WBSU)

2. Influence of Road-Stream Crossing on the Initiation of Gully: Case Study from the Terai Region of West Bengal

Year: **2020** [6th – 8th March]; Event Name: 14th International Geographical Union-INDIA **International** Conference; Focal Theme: Agriculture, Food, Water, Biodiversity and Health In Changing Climate; Organizer: Department of Geography, The University of Burdwan (BU), W.B., India

3. Catchment-Scale Assessment of Lateral and Longitudinal (Dis)connectivity by Transport Network in Lowland Rivers of Eastern India

Year: **2019** [12th – 14th November]; Event Name: 31st **National** Conference of the Indian Institute of the Geomorphologists (IGI); Focal Theme: Applications of Geospatial Technology in Geomorphology and Environment; Organizer: Department of Geography, University of North Bengal (NBU), W.B., India

4. Problems in Riverine Connectivity through Transport Infrastructure: Case Study from Eastern India

Year: **2019** [11th – 13th January]; Event Name: **International** Conference ESDACON - 2019; Focal Theme: Global Environmental Challenges Human Health and Sustainable Development; Organizer: CSRD, JNU, New Delhi, India

5. A Study on the Interaction between Transport and Stream Network over the Alluvial River Basin

Year: 2017 [28th March]; Event Name: **International** Conference; Focal Theme: Environment and Society: Historical Perspective and Contextual Reality; Organizer: Department of Geography, The University of Burdwan (BU), W.B., India

6. Potential Interaction between Transport and Stream Networks: A Case Study of Kunur River Basin, West Bengal

Year: 2016 [24th – 27th November]; Event Name: 29th **International** Conference of the Indian Institute of the Geomorphologists (IGI); Focal Theme: Geomorphology and Natural Hazards; Organizer: Department of Geography, University of Calcutta (CU), W.B., India

7. Influence of Catchment Land Cover on Channel Morphology in Lateritic Belt of Ajay-Damodar Interfluvium

Year: 2016 [18th – 20th March]; Event Name: 9th **International** Geographical Union-INDIA International Conference; Focal Theme: Land Use Change, Climate Extremes and Disaster Risk Reduction; Organizer: Department of Geography, Shaheed Bhagat Singh College, University of Delhi

8. Road-Stream Crossing: An Emerging Threat for Our Rivers

Year: 2015 [9th October]; Event Name: **National** Seminar; Focal Theme: Water: A Threatened Social Resource of the Century; Organizer: Department of Geography, Women's Christian College, Kolkata

9. Morphotectonic Map Generation using Geo-Informatics Technology: A Case Study over the Ajay Damodar Interfluvium

Year: 2015 [6th – 7th February]; Event Name: **National** Seminar; Focal Theme: Images in Geography; Organizer: Foundation of Practicing Geographer, West Bengal, India

10. Application of Applied Geomorphology and Remote Sensing in Ground Water Potential Zones Detection: A Case Study

Year: 2014 [22nd – 24th March]; Event Name: **National** Seminar; Focal Theme: Remote Sensing and Environment; Organizer: School of Oceanographic Studies, Jadavpur University, and Council and Department of Science and Technology, Govt. of West Bengal

11. Burdwan Municipality and Banka River: A fluvio-geomorphic approach

Year: 2014 [17th – 18th February]; Event Name: **National** Seminar; Focal Theme: Dimensions of Urbanization, Environmental Change and Sustainable Development in Developing Countries; Organizer: Department of Geography, Dr. Bhupendra Nath Dutta Smriti Mahavidyalaya, Hatgobindapur, Burdwan

12. Effects of Urbanization on Channel Morphology: A Case Study of Banka River in Burdwan Town, West Bengal

Year: 2013 [20th – 21st December]; Event Name: **International** Conference of Regional Science Association, Kolkata, India; Focal Theme:; Organizer: Department of Geography, Karnatak University's Karnatak Science College, Dharwad, Karnataka, India.

13. Prediction of Peak Discharge and Hydrograph for Kunur River, an Ungauged Basin using Indirect Hydrological Models

Year: 2013 [12th – 14st December]; Event Name: 35th Indian Geography Congress, **National Association of Geographers India (NAGI)**; Focal Theme:; Organizer: Department of Geography, Chennai University, Chennai, India.

14. An Investigation of Alluvial Channel Evolution using Remote Sensing and GIS: A Case Study in the Ajay-Kunur Rivers Interfluvium

Year: 2013 [11th – 13st November]; Event Name: **International** Conference on 35th Indian Geographers' Meet of Institute of Indian Geographers; Focal Theme: Environment, Development and Equality; Organizer: Department of Geography, The University of Burdwan, Burdwan, West Bengal, India.

15. Effect of Road Crossing on River Morphology and its Aquatic Life

Year: 2013 [4th – 5st October]; Event Name: 1st **International** Conference of Association of Punjab Geographers; Focal Theme: Disasters, Natural Resource Management and Socio-economic Development; Organizer: Department of Geography, Kurukshetra University, Kurukshetra, Haryana, India.