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RESEARCH DEGREES

PhD, Geography, The University of Burdwan (Collaboration with Wadia Institute of Himalayan Geology, Dehradun), West Bengal (Awarded on 26th Feb 2019).

MPhil, Geography, The University of Burdwan, West Bengal (Awarded on 14th June 2010).

CSIR-UGC NET in Earth, Atmospheric, Ocean and Planetary Sciences (December 2010, June 2011 (Rank 15), December 2011)

RESEARCH INTEREST

Geomorphology, Quaternary fluvial records, Flood hazards, Palaeoclimate reconstruction, Remote Sensing and GIS Applications

COURSES TEACHING/TAUGHT

Geomorphology, Geotectonics, Climatology, Statistical Techniques in Geography, Surveying, Remote Sensing and GIS, Computer Programming (MATLAB)

SCIENTIFIC AWARDS AND SCHOLARSHIPS: **Total 14**

2019-

- Early Career Scientists (ECS) Support from European Geosciences Union (EGU) for attending EGU Galileo Conference 2019 on "*Perturbations of earth surface dynamics caused by extreme events*" held in *Kathmandu, Nepal* during October, 2019.
- Selected among the top 15 Young Geomorphologists and received grant from International Association of Geomorphologists (IAG), for the Regional Conference on Geomorphology: *Geomorphology of Climatically and Tectonically sensitive areas* and related 2nd IAG - EGU Intensive Course for Young Geomorphologists, held in *Athens, Greece* during September 19 - 27, 2019.

2018-

- German Federal Ministry for Education and Research (BMBF) scholarship through the German Academic Exchange Service (DAAD) within the framework of the project "Indo-German Centre for Sustainability (IGCS) at IIT Madras, India", for the participation in the IGCS Summer School 2018 on "*Coastal and River Hazards & Management Strategies*" at *RWTH Aachen University, Germany*.

2017-

- New Research Worker's Award (NRWA), Quaternary Research Association (QRA), UK.
- Selected among the top 20 Young Geomorphologists and received grant from International Association of Geomorphologists (IAG), for the 9th International Conference on Geomorphology: *Geomorphology and Society* and IAG - EGU Intensive Field Course on *Geomorphology field training in tectonically active mountain regions* held in *New Delhi and Dehradun, India* during November 06 - 16, 2017.
- International Association for Mathematical Geosciences (IAMG) Student Travel Award to present paper at 18th Annual Conference of the IAMG 2017, September 02 - 09, 2017, *Esplanade Hotel, Fremantle, Perth, Australia*.

2016-

- Science and Engineering Research Board (SERB), Department of Science and Technology (DST), Government of India (GoI) - International Travel Award and International Association of Sedimentologists (IAS) Travel Grant to attend and present paper at International Association of Sedimentologists (IAS) 2016 Summer School on "*Sediments: from Land to Sea - Archives of global change - Mesozoic and Cenozoic*", September 25 - October 2, 2016, *Alghero, Italy*.

- Graduate School of Geosciences (GSGS), University of Cologne Summer School Travel Grant to attend GSGS Summer School on "*Dates and Rates of Change in the Quaternary*", August 21-27, 2016, *Burg Blankenheim (near Cologne), Germany*.

2015-

- Postgraduate Grant Award - Fall 2015, International Association of Sedimentologists (IAS).
- International Union for Quaternary Research (INQUA) Early Career Researcher Grant and Centre for International Co-operation in Science (CICS), India - sponsored by INSA-CSIR-DAE/BRNS-DOS/ISRO-CICS International Travel Award to present paper at XIX INQUA Congress 2015 on "*Quaternary Perspectives on Climate Change, Natural Hazards and Civilization*", July 26 - August 02, 2015, *Nagoya, Japan*.

2014-

- Natural Resource Research Student Award, International Association for Mathematical Geosciences (IAMG), USA.
- International Association for Mathematical Geosciences (IAMG) Student Travel Grant to present paper at 16th Annual Conference of the IAMG on "*Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment: Challenges, Processes and Strategies*", October 17 - 20, 2014, *New Delhi, India*.
- Study Grant (Ref. No. ICSSR-ERC/2014-15/15), Indian Council of Social Science Research (ICSSR), Eastern Regional Centre, Kolkata, India, 2015.

2013-

- Best Research Paper presented as Poster entitled '*Tectono-Climatic Variability in the Quaternary valley-fill deposits of Damodar River Valley, Eastern India*' in the XXIV Indian Colloquium on Micropaleontology and Stratigraphy held at *Wadia Institute of Himalayan Geology (WIHG), Dehradun* during November 18 - 20, 2013.

PUBLICATIONS PROFILE: Total 24

(A) Research Article: 13

- Kumar, A., Ray, Y., Ghosh, R., **Bandyopadhyay, S.**, Singh, V. and Srivastava, P. (2020): Late Quaternary sedimentation history of the Himalaya and its foreland. *Episodes*, Vol. 43, No. 1, pp. 498-510 (Impact Factor: 2.16) (doi.org/10.18814/epiiugs/2020/020032) (Online ISSN: 1866-6299).
- Ghosh, D., Banerjee, M., Mandal, M. and Singh, S.P., **Bandyopadhyay, S.** (2018): Morphometric Evaluation using Geospatial Technology in the Kunur River Basin of West Bengal. *Journal of Indian Geomorphology*, Vol. 6, pp. 42-54. (ISSN: 2320-0731).
- Ghosh, D., **Bandyopadhyay, S.**, Banerjee, M. and Mandal, M. (2018): Downstream Variation in Bed Sediment Size and Sorting along Dwarakeshwar River in West Bengal, India. *Geographical Review of India*, Vol. 80, No. 2, pp. 122-140 (ISSN: 0375-6386).
- **Bandyopadhyay, S.** (2018): Fluvial Processes and Evolution of Quaternary Landscape in the Ajay River Basin of West Bengal. *IAS Newsletter*, Vol. 2017, Issue 271-271, pp. 09-26 (Online ISSN: 2294-4931).
- Ghosh, P.K., **Bandyopadhyay, S.**, Jana, N.C. and Mukhopadhyay, R. (2016): Sand quarrying activities in an alluvial reach of Damodar River, Eastern India: Towards a Geomorphic Assessment. *International Journal of River Basin Management*, Vol. 14, No. 4, pp. 477-489 (Taylor & Francis) (SNIP: 0.807 (Scopus)) (dx.doi.org/10.1080/15715124.2016.1209509) (Online ISSN: 1814-2060).

- **Bandyopadhyay, S.**, Ghosh, P.K., Jana, N.C. and Sinha, S. (2016): Probability of flooding and vulnerability assessment in the Ajay River of Eastern India: implications for mitigation. *Environmental Earth Sciences*, Vol. 75. No. 7, pp. 1-22 (**Impact Factor: 2.784**) ([DOI 10.1007/s12665-016-5297-y](https://doi.org/10.1007/s12665-016-5297-y)) ([Online ISSN: 1866-6299](https://www.elsevier.com/locate/esa)).
- Ghosh, P.K., **Bandyopadhyay, S.** and Jana, N.C. (2016): Mapping of groundwater potential zones in hard rock terrain using geoinformatics: a case of Kumari watershed in western part of West Bengal. *Modeling Earth Systems and Environment*, Vol. 2, No. 1, Springer ([DOI 10.1007/s40808-015-0044-z](https://doi.org/10.1007/s40808-015-0044-z)) ([Online ISSN: 2363-6211](https://www.springer.com/journal/12464)).
- **Bandyopadhyay, S.**, Sinha, S., Jana, N.C. and Ghosh, D. (2014): Entropy application to evaluate the stability of landscape in Kunur River Basin, West Bengal, India. *Current Science*, Vol. 107, No. 11, pp. 1842-1853 (**Impact Factor: 1.102**) ([ISSN: 0011-3891](https://www.ias.ac.in/journals/Current_Science)).
- Mandal, S., Jana, N.C. and **Bandyopadhyay, S.** (2014): Flood Frequency Analysis (FFA) of Annual Maximum Stream Flows for Dwarakeswar-Mundeswari Interfluvium in West Bengal, India, *Eastern Geographer*, Vol. 20, No. 1 ([ISSN: 0973-7642](https://www.tandfonline.com/journals/1111111)).
- Jana, N.C., **Bandyopadhyay, S.**, Ghosh, P.K. and Chatterjee, M. (2012): Reducing Flood Risk and Vulnerability in Dwarakeswar-Mundeswari Interfluvium, West Bengal. *Hill Geographer*, Vol. 28, No. 2, pp. 44-54: ([ISSN: 0970-5023](https://www.tandfonline.com/journals/1111111)).
- **Bandyopadhyay, S.** and Jana, N.C. (2010): Severity of Embankment Breaching (EMB) in the Lower Ajay Basin: An environmental threat. *Indian Journal of Geomorphology*, Vol. 15, No. 1 and 2, pp. 1-18 (**NAAS Score: 3.09**) ([ISSN: 0973-2411](https://www.tandfonline.com/journals/1111111)).
- **Bandyopadhyay, S.** and Ghosh, D. (2010): Brick kiln agglomeration adjacent to Bardhaman Town: A Geographical inquiry, *Geographical Review of India*, Vol. 72, No. 1, pp. 29-39 ([ISSN: 0375-6386](https://www.tandfonline.com/journals/1111111)).
- **Bandyopadhyay, S.** and Jana, N.C. (2009): Flood-induced Embankment Failures: The Least Talked But Much Harmful Environmental Hazard, *Hill Geographer*, Vol. 25, No. 1 and 2, pp. 1-11 ([ISSN: 0970-5023](https://www.tandfonline.com/journals/1111111)).

(B) Chapter in Book: **06**

- Jana, N.C., **Bandyopadhyay, S.**, Ghosh, P.K., Mukhopadhyay, R. (2021): Changing Rainfall Patterns and Their Linkage to Floods in Bhagirathi-Hooghly Basin, India: Implications for Water Resource Management. In Pandey, B.W., Anand, S. (eds.) *Water Science and Sustainability*, Springer International Publishing, pp. 169-181 ([ISBN 978-3-030-57487-1](https://www.springer.com/journal/1111111)).
- Ghosh, P.K., **Bandyopadhyay, S.**, Jana, N.C. and Mukhopadhyay, R. (2019): Probability of Flooding and Vulnerability Assessment of the Damodar Valley in Eastern India: Alternative Strategies for Flood Risk Reduction. In: Routray, J.K. and Li, W. (eds.) *Proceedings of the International Forum on Education and Rural Transformation*, Asian Institute of Technology, Thailand, pp. 302-310 ([ISBN: 978-616-8230-01-5](https://www.springer.com/journal/1111111)).
- Jana, N.C. and **Bandyopadhyay, S.** (2017): Environmental Impacts of Embankment Breach on Ajay River in Bardhaman District. In: Thakur, B., Sharma, H.S., Misra, S., Chattopadhyay, S. and Singh, S. (eds.) *Regional Development: Theory and Practice (Professor R.P. Misra Felicitation Volumes, Volume Five: Development Challenges)*, Concept Publishing Company Pvt. Ltd., New Delhi, pp. 346-373 ([ISBN: 978-93-5125-207-8](https://www.springer.com/journal/1111111)).
- Jana, N.C., Ghosh, P.K. and **Bandyopadhyay, S.** (2016): Climate Change Impacts on Flood Risks and Vulnerability: The case of India. In: Haldar, A. and Satpati, L.N. (eds.) *Climate and Society - A Contemporary Perspective*, Department of Geography, University of Calcutta, pp. 235-247 ([ISBN: 978-81-923448-0-5](https://www.springer.com/journal/1111111)).
- **Bandyopadhyay, S.** and Saha, K. (2015): The Kunur River Floods: a wake-up call for Society. In: Datta, T. and Rana, K.K. (eds.) *Proceedings of the Golden Jubilee (1965-2015) Celebration of Gushkara Mahavidyalaya*, Gushkara Mahavidyalaya, Burdwan, West Bengal, pp. 123-136 ([ISBN: 978-93-5235-350-7](https://www.springer.com/journal/1111111)).

- Chatterjee, S. and **Bandyopadhyay, S.** (2014): Integrated Approach of Remote Sensing and GIS for Watershed Management: A Case Study of wga-2a Sub-Watershed of Godavari River Basin, Nagpur, Maharashtra. In: Singh, M. *et al.* (eds.) *Landscape Ecology and Water Management*, Springer Japan, pp. 247-255 (ISBN: 978-4-431-54870-6).

(C) News and Notes/ Meeting Report: **05**

- Banerjee, S. and **Bandyopadhyay, S.** (2018): Bridging the Gaps between Sustainability and Disaster Management. *Eos (AGU)*, 99, (DOI: [10.1029/2018EO110987](https://doi.org/10.1029/2018EO110987)) (ISSN: 0096-3941).
- **Bandyopadhyay, S.**, Mendaly, S., Ray, A. and Ruikar, T. (2016): Clues to Prehistoric Human - Plant Interaction. *Heritage: Journal of Multidisciplinary Studies in Archaeology*, Vol. 4, pp. 847-851. (ISSN: 2347-5463).
- **Bandyopadhyay, S.** and Mukhopadhyay, S. (2015): Unlocking the past. *Current Science*, Vol. 108, No. 5, pp. 767-768 (Impact Factor: 1.102) (ISSN: 0011-3891).
- **Bandyopadhyay, S.** and Ghosh, R. (2014): A mathematical treatment of geoscientifically relevant problems. *Current Science*, Vol. 106, No. 6, p. 794 (Impact Factor: 1.102) (ISSN: 0011-3891).
- **Bandyopadhyay, S.** and Acharya, T. (2013): Training Programme on Hyperspectral Remote Sensing and Applications in Water Resources (HYPERWATER-2013). *Jour. Geol. Soc. India*, Vol.82, pp. 200-201 (Impact Factor: 0.994) (doi.org/10.1007/s12594-013-0140-5) (ISSN: 0016-7622).

TALKS AND POSTERS: **Total 19**

International: **Total 15**

2020-

- "Assessment of the Impact of Sand Quarrying Activities on Channel Morphology and riparian People: A Study in an Alluvial Reach of Damodar River, West Bengal". **Sub Theme:** Globalization, Industrialization and Environmental Issues. **Presented in:** XIV International Geographical Union (IGU)-India International Conference: Agriculture, Food, Water, Biodiversity and Health in Changing Climate, March 06 - 08, 2020, Bardhaman, West Bengal. **Organised by:** Department of Geography, The University of Burdwan, Bardhaman, West Bengal in collaboration with Association of Bengal Geographers.

2019-

- "Century-Scale Flood Response in the Rarh Region of Lower Gangetic Plains, India: towards understanding of Climate and Humans' Interaction". **Sub Theme:** Magnitude, Length- and Time Scale of Impact. **Presented in:** European Geosciences Union (EGU) Galileo Conference 2019: Perturbations of earth surface dynamics caused by extreme events, October 13 - 19, 2019, Nepal. **Organised by:** European Geosciences Union (EGU) and Nepal Geological Society (NGS).

- "Tectonic and Lithological Controls on the variability of fluvial landscape in Chotanagpur Plateau, eastern India". **Sub Theme:** Tectonic Geomorphology. **Presented in:** IAG Regional Conference on Geomorphology (RCG2019): Geomorphology of Climatically and Tectonically sensitive areas, September 19 - 21, 2019, National and Kapodistrian University of Athens Conference Center, Athens, Greece. **Organised by:** The Greek Committee for Geomorphology & Environment of the Geological Association of Greece and IAG National Scientific Member for Greece.

2018-

• "*Optically Stimulated Luminescence (OSL) Dating of Sediments from Lower Gangetic Plain (LGP), India and its implications for Late Quaternary Climate Change*". **Presented in:** 'Workshop on Climate Change' (A meeting of Young Scientists in Central & South Asian Region), December 05 - 07, 2018 at Bengaluru, India. **Organised by:** The World Academy of Sciences (TWAS) - Central & South Asia Regional Partner (CSARP) at Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bengaluru and Divecha Centre for Climate Change at Indian Institute of Science (IISc), held during December 05 - 07, 2018 at Bengaluru, India.

2017-

• "*Luminescence Dates from Lower Gangetic Plain, India and its implications for Quaternary evolution of the western Bengal Basin-Fill*". **Sub Theme:** Palaeohydrology and Fluvial Archives - hydrological extreme and critical events (HEX). **Presented in:** 9th International Conference on Geomorphology (ICG): Geomorphology and Society, November 06 - 11, 2017, Vigyan Bhawan, New Delhi, India. **Organised by:** Indian Institute of Geomorphologists (IGI).

• "*Using High-resolution DEM and SWAT Model for Surface Water Resource Management in Ajay River Basin, India*". **Sub Theme:** Geoinformatics. **Presented in:** 18th Annual Conference of the International Association for Mathematical Geosciences (IAMG) 2017, September 02 - 09, 2017, Esplanade Hotel, Fremantle, Perth, Australia.

2016-

• "*Signatures of climatic variability during Quaternary period from lower Gangetic plains in West Bengal, India*". **Sub Theme:** Sediments: from Land to Sea - Archives of global change - Mesozoic and Cenozoic. **Presented in:** International Association of Sedimentologists (IAS) 2016 Summer School, September 25 - October 2, 2016, Alghero (Sardinia), Italy. **Organised by:** International Association of Sedimentologists (IAS), Belgium.

• "*New luminescence dates from lower Gangetic plain, West Bengal and its implications for deciphering Climate-Eustasy and Geomorphic Responses*". **Sub Theme:** Prehistory, Plants and People. **Presented in:** INQUA-HaBCom Workshop on 'Palaeoanthropological Perspectives on Plant Communities in South Asia', January 18 - 24, 2016. **Organised by:** Sharma Centre for Heritage Education (Chennai) and French Institute of Pondicherry (IFP).

2015-

• "*Deciphering tectono-climatic variability from morpho-sedimentary records in the middle Damodar valley, Lower Gangetic Plain during Quaternary period*". **Sub Theme:** Records of climate change. **Presented in:** 30th Himalaya-Karakoram-Tibet (HKT), October 6 - 8, 2015. **Organised by:** Wadia Institute of Himalayan Geology (WIHG), Dehradun.

• "*Late Quaternary landscape development and environmental history of the western part of Lower Ganga Plain (LGP), India*". **Sub Theme:** Geomorphology. **Presented in:** XIX International Union for Quaternary Research (INQUA) Congress on 'Quaternary Perspectives on Climate Change, Natural Hazards and Civilization', July 26 - August 02, 2015. **Organised by:** Japan Association for Quaternary Research, Nagoya, Japan.

2014-

• "*Long-period fluctuations (1901-2000) in rainfall and its linkages to extreme monsoon floods in Bhagirathi-Hooghly Basin (BHB), Eastern India*". **Theme:** Agriculture, Environment and Ecosystems. **Presented in:** 16th Annual Conference of the International Association for Mathematical Geosciences (IAMG) on 'Geostatistical and Geospatial Approaches for the Characterization of Natural Resources in the Environment: Challenges, Processes and Strategies', October 17 - 20, 2014. **Organised by:** Jawaharlal Nehru University (JNU), New Delhi.

2013-

• "*Response and recovery from the effects of 100 years flood: significance of long term slope-channel coupling in Damodar River, North-Eastern India*". **Session:** Past changes in fluvial systems, floodplains and estuaries. **Presented in:** PAGES - 4th Open Science Meeting on 'The Past: A Compass for Future Earth', February 13 - 16 2013. **Organised by:** National Centre for Antarctic and Ocean Research (NCAOR), Goa.

2012-

• "*On downstream channel response to the recorded catastrophic floods: case study of Damodar River, Eastern India since twentieth century*". **Scientific Session:** Paleofloods. **Presented in:** 3rd Annual Symposium on 'Response of Asian Rivers to Climate Change - Past, Present and Future Scenario', November 14 - 16, 2012. **Organised by:** Council of Scientific and Industrial Research (CSIR) - National Geophysical Research Institute (NGRI), Uppal Road, Hyderabad 500 007, Telangana, India.

• "*Implications of Hydrological Change on Flood Embankment Breaching in the Lower Ajay Basin of Bardhaman District, West Bengal*". **Sub Theme:** Disasters following natural Events, Prevention/ Management of Disaster. **Presented in:** 33rd Annual Conference of the Institute of Indian Geographers (IIG) and International Seminar on 'Population, Development & Disaster Management', February 8 - 11, 2012. **Organised by:** Department of Geography & Disaster management, Tripura University.

• "*Entropy Application to the evaluation of River Network Equilibrium: A case study of Kunur River basin, West Bengal, India*". **Sub Theme:** River Science and processes-hydro-physical processes, morphology-ecology linkages. **Presented in:** IGCP 582 Annual Meeting and Conference on 'Tropical Rivers: Hydro-physical processes, impacts, hazards and management', January 5 - 7, 2012. **Organised by:** Indian Institute of Technology (IIT) Kanpur.

National and Regional: **Total 04**

• "*Assessment of the Geomorphic Response to Recorded Catastrophic Floods: case study of Damodar River, India since Twentieth Century*". **Sub Theme:** Landforms and Earth System Processes. **Presented in:** 29th Indian Institute of Geomorphologists (IGI) Conference on 'Geomorphology and Natural Hazards', November 24 - 27, 2016, Kolkata. **Organised by:** University of Calcutta, Kolkata.

• "*The Oldest Sedimentological Record from Western Part of Ganga-Brahmaputra Delta: Climate-Eustasy and Geomorphic Responses*". **Sub Theme:** Geomorphology and landscape evolution. **Presented in:** National Conference on 'Quaternary Climate Change: New Approaches and Emerging Challenges', December 15 - 16, 2014. **Organised by:** Birbal Sahni Institute of Palaeobotany (BSIP), Lucknow, India.

• "*Changing Rainfall Patterns in Bhagirathi-Hooghly Basin (BHB), Lower Ganga Plain: Implications of Tropical Climate Variability*". **Theme:** Earth Sciences. **Presented in:** 21st West Bengal State Science and Technology Congress 2014, February 20 - 21, 2014. **Organised by:** The University of Burdwan and West Bengal State Council of Science and Technology, Government of West Bengal.

• "*Tectono-Climatic variability in the Quaternary valley-fill deposits of Damodar River valley, eastern India*". **Theme:** Tree rings, speleothems, lacustrine, fluvial and biotic records as proxies for past climate. **Presented in:** XXIV Indian Colloquium on 'Micropaleontology and Stratigraphy', November 18 - 21, 2013. **Organised by:** Wadia Institute of Himalayan Geology (WIHG), Dehradun.

TRAINING/WORKSHOP/SHORT-TERM COURSES: **Total 23****2020-**

• Participated in Indian National Science Academy (INSA) - Oil India sponsored National Workshop on 'Quantitative Geomorphology' held during February 07-21, 2020 in *Indian Institute of Technology Gandhinagar (IITGN), Palaj, Gandhinagar*.

2019-

- Participated in 2nd International Association of Geomorphologists (IAG) - European Geosciences Union (EGU) sponsored Intensive Course on "**Coastal Geomorphology of Climatically and Tectonically Sensitive Areas**" held on September 22-27, 2019 in *Athens, Greece*.

2018-

- Attended Indo-German Centre for Sustainability (IGCS) Summer School 2018 on '**Coastal and River Hazards & Management Strategies**' held during July 14 - 25, 2018 in *RWTH Aachen University, Germany*.

2017-

- Participated and presented a poster entitled *Optically Stimulated Luminescence (OSL) Dating of Sediments from Lower Gangetic Plain (LGP), India* in the '**Workshop on Geochronology**' held during November 16-17, 2017 at *Inter-University Accelerator Centre (IUAC), New Delhi, India*.
- Participated in International Association of Geomorphologists (IAG/AIG) - European Geosciences Union (EGU) sponsored Intensive Course on '**Geomorphology Field Training in Tectonically Active Mountain Regions**' held on November 12-16, 2017 in *India*.
- Attended International Association for Mathematical Geosciences (IAMG) sponsored Short Course 11: '**Young Scientists' Course**' held on the September 3, 2017 in *Carnac Room, Esplanade Hotel, Fremantle (Perth, Australia)*.

2016-

- Participated in International Association of Sedimentologists (IAS) 2016 Summer School on '**Sediments: from Land to Sea - Archives of global change - Mesozoic and Cenozoic**' held on September 25 to October 2, 2016 in *Alghero (Sardinia), Italy*.
- Participated in **Graduate School of Geosciences (GSGS), University of Cologne** Summer School on "*Dates and Rates of Change in the Quaternary*" held on August 21-27, 2016 at the *Burg Blankenheim (near Cologne), Germany*.
- Participated in Training Workshop on '**Modern river management and historic reconstruction with advanced fluvial remote sensing**' held on April 9-10, 2016 at the *Indian Institute of Technology (IIT) Kanpur, India*.
- Participated and presented a poster entitled *New luminescence dates from lower Gangetic plain, West Bengal and its implications for deciphering Climate-Eustasy and Geomorphic Responses* in the **INQUA-HaBCom Workshop on Palaeoanthropological Perspectives on Plant Communities in South Asia** "Prehistory, Plants and People" organised by the *Sharma Centre for Heritage Education (Chennai)* and *French Institute of Pondicherry (IFP)* during January 18-24, 2016.

2015-

- Participated in '**3-Day Workshop on Software Training in Geography (Honours)**' held on February 27-March 2, 2015 at the *Department of Geography, The University of Burdwan, West Bengal*.
- Participated in '**Winter School on Statistical Data Analysis Methods**' held in the *Indian Statistical Institute (ISI), Kolkata*, during February 16-20, 2015.

2014-

- Participated in '**Winter School in Quaternary Geoarchaeology and Paleoenvironment**' held at *Deccan College Post Graduate and Research Institute (Deemed University), Pune* during December 8-13, 2014.

- Attended International Association for Mathematical Geosciences (IAMG) sponsored Short Course on **'Time Series Analysis in geology: An Antiquated Method?'** at *Jawaharlal Nehru University (JNU), New Delhi* during October 16, 2014.

2013-

- Participated in Science and Engineering Research Board (SERB), Department of Science and Technology (DST) sponsored **'Winter School in Geomathematics'** at *Wadia Institute of Himalayan Geology (WIHG), Dehradun* during December 16-30, 2013.
- Attended Ministry of Earth Sciences (MoES), Government of India (GoI) sponsored Training Course on **'Hydrologic modelling using RS/GIS with Special Reference to Climate Change'** organized by *National Institute of Hydrology (NIH) Roorkee* during June 03-07, 2013.
- Attended Department of Science and Technology (DST), Government of India (GoI) sponsored training programme on **'Hyperspectral Remote Sensing and Applications in Water Resources'** organized by the *Agricultural and Food Engineering Department, Indian Institute of Technology (IIT) Kharagpur* during March 18-23, 2013.

2012-

- Completed the Department of Science and Technology (DST), Government of India (GoI) sponsored **'Training Workshop on Quaternary setup of Arid NW Himalaya: Main Focus on Ladakh'** organized by the *Wadia Institute of Himalayan Geology (WIHG), Dehradun* at Leh and surrounding areas from 18th August 2012 to 6th September 2012 and secured "A" (Excellent) grade.
- Participated in UGC-Sponsored National Workshop on **'Climatology of Humid Tropics: Contemporary Issues and Techniques'** at *Department of Geography, University of Calcutta* held during June 01-02, 2012.

2011-

- Completed **'6th Course on Application of Geoinformatics for Disaster management (ISRO-GSITI collaborative Item)'** at *Geological Survey of India Training Institute (GSITI), Hyderabad* from 27th June 2011 to 27th July 2011.
- Attended the Workshop on **'Multivariate Statistical Analysis'** held on March 26, 2011 conducted by *School of Humanities, Social Sciences and Management, Indian Institute of Technology (IIT) Bhubaneswar, Orissa*.

2008-

- Completed Short Course on **'Global Positioning System'** conducted at the *Research Development and Training Division, National Atlas and Thematic Mapping Organisation (NATMO)* from October 13-17, 2008.
- Participated in the two weeks NNRMS (ISRO) sponsored Training Programme on **'Remote sensing and GIS'** offered by *Indian Institute of Technology (IIT) Kharagpur* during May 19-30, 2008.

INDEPENDENT RESEARCH PROJECT: Total 02

Sl. No.	Title	Agency	Period	Grant/Amount Mobilized (Rs. in Lakh)
1.	Pleistocene Geomorphic History of the Western Bengal Basin, India	Quaternary Research Association (QRA), UK	November 2017 to September 2018	£1000 (Rs. 0.80 lakh)

2.	Use of Cartosat-1 Data in DEM generation and SWAT model for surface water resource management in Ajay River Basin, India	International Association for Mathematical Geosciences (IAMG), USA	September 2014 to March 2016	USD 2500 (Rs. 1.53 lakh)
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SPECIAL/INVITED LECTURES DELIVERED: Total 06

Sl. No.	Title of the Invited Lecture	Title of the Conference/Seminar/Workshop etc.	Date of the Event	Invited or Organised by
1.	<i>Lessons from the past: exploring the Quaternary environment</i>	Webinar on Future Geographers - IV: Exploring the career goals and competencies, 2021	June 26, 2021	Department of Geography, School of Basic and Applied Sciences, Adamas University, Kolkata
2.	<i>Flood 'Archives' and 'Memories': towards flood risk assessment and management</i>	One Day National Webinar on Environment & Sustainability: Land, Water & Ecosystem Perspective	August 31, 2020	Department of Geography, Kashipur Michael Madhusudan Mahavidyalaya, Purulia, West Bengal in collaboration with Department of Geography & Geo-informatics, Pandit Raghunath Murmu Smriti Mahavidyalaya, Bankura, West Bengal
3..	<i>Illuminating the Dates and Rates of Change in Geomorphology</i>	Online Workshop on Innovative Research Trends in Contemporary Geography	July 8, 2020	Department of Geography, East Calcutta Girls' College, Lake Town, Kolkata
4.	<i>Concepts of Probability in Geography</i>	Special Lecture Session	November 30, 2019	Post Graduate Department of Geography, Pandit Raghunath Murmu Smriti Mahavidyalaya, Jamboni, Bankura, West Bengal
5.	<i>Looking into the past through the fluvial records and luminescence dating technique</i>	Special Lecture Session on Applying Geomorphology to Environmental Management	December 06, 2017	Rampurhat College, Rampurhat, Birbhum, West Bengal

6.	<i>Fundamental Concept of Statistics and Interpretation of Indian Daily Weather Map</i>	Two Day Workshop on Teachers' Skill Development of H.S. (Council) Geography New Syllabus	September 11 - 12, 2015	Bangiyo Bhugol Mancha, Kolkata and Department of Geography, Sidho-Kanho-Birsha University, Purulia
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RESEARCH COLLABORATIONS WITH OTHER INSTITUTIONS

- School of GeoSciences, University of Edinburgh, UK
- Wadia Institute of Himalayan Geology (WIHG), Dehradun
- Department of Earth Sciences, Indian Institute of Science Education & Research (IISER), Kolkata
- Presidency University, Kolkata
- Department of Geology, University of Calcutta, Kolkata
- Department of Geography, Jadavpur University, Kolkata

COUNTRY VISITED FOR ACADEMIC AND RESEARCH PURPOSE: **Total 07**

Nepal (2019), Greece (2019), Germany (2018), Australia (2017), Italy (2016), Germany (2016), Japan (2015)

ASSOCIATION WITH PROFESSIONAL BODIES: **Total 18**

- Postgraduate Member of the British Society for Geomorphology (BSG), UK (2018-2022).
- Member of the Floods Working Group: Phase 1 (2015-2018), Phase 2 (2019-2021), PAGES (Past Global Changes), Switzerland.
- American Geophysical Union (AGU) Berkner Member (2017-2019).
- Student Member (2017-2019) and Ordinary Member (Since 2020) of Quaternary Research Association (QRA), UK (*Membership No. 2017/2906*).
- Individual Member of the International Society for Photogrammetry and Remote Sensing (ISPRS) since 2015.
- Life Member, Indian Society for Prehistoric and Quaternary Studies (ISPQS) (*Membership No.: L-087*) since December 2015.
- Student Member (2015-2018) and Full IAS Member (2019) of the International Association of Sedimentologists (IAS).
- Life Member, The Indian Science Congress Association (ISCA) (*Membership No. L27235*) since June 2015.
- Student Member of the International Association for Mathematical Geosciences (IAMG) for the year 2014, 2017 and 2018 (*Membership No. 1505*).
- Life Time Subscriber, Himalayan Geology (Journal) (*Membership No.: LTSS-340/2011*).
- Life Member, Indian Association of Hydrologists (*Membership No.: LM-1666*) since 2011.
- Life Member, Indian Institute of Geomorphologists (IGI) (*Membership No.: L-436*) since October 2010.
- Life Member, Institute of Indian Geographers (IIG) (*Membership No.: L-757*) since September 2010.
- Life Member, The Geographical Society of India (*Membership No.: L/B-131*) since March 2010.
- Life Member, Eastern Geographical Society (EGS), Bhubaneswar (*Membership No.: EGS/L25/2011*) since January 2012.
- Life Member, Indian Geographical Foundation (*Membership No.:60*).

UGC-HUMAN RESOURCE DEVELOPMENT CENTRE (FORMERLY ACADEMIC STAFF COLLEGE) ORGANIZED ORIENTATION/ REFRESHER COURSE ATTENDED

Completed **Online Faculty Induction Programme** at UGC-HRDC, Osmania University, Hyderabad organized from 02.11.2020 to 01.12.2020 and obtained 'A' grade.

ADMINISTRATIVE AND PROFESSIONAL RESPONSIBILITIES

- **Course Coordinator**, M.Sc. in Geoinformatics, Department of Geography, Kazi Nazrul University, West Bengal since 12 June, 2021.
- **Course Coordinator**, Post Graduate Diploma in Geospatial Data Analytics, UGC-NSQF Approved Skill Development Course, Kazi Nazrul University, West Bengal since 24 September, 2020.
- **Coordinator**, Department of Geography, Kazi Nazrul University: 21 November, 2018 - 31 January, 2019.
- **Joint Coordinator**, Certificate Course on Integrated Sustainable Disaster Management (ISDM), A Value Added Course offered by Kazi Nazrul University, West Bengal from Academic Year 2019-2020.
- **NAAC Team Coordinator (Cycle 1)**, Criterion III: Research, Innovation and Extension, KNU IQAC-NAAC Coordination Team, Kazi Nazrul University, West Bengal.
- **Start-up Activity Coordinator**, Innovation, Incubation and Entrepreneurship (IIE) Cell, Kazi Nazrul University, West Bengal.
- **Member**, Campus Environment Promotion & Maintenance Committee, Kazi Nazrul University, West Bengal since 20 May, 2020.
- **Convener**, KNU Natural Environment Maintenance Committee, a sub-committee under the Campus Environment Promotion & Maintenance Committee, Kazi Nazrul University, West Bengal since 03 July, 2020.

Organiser:

- **Organising Chairman**, One Day Online Workshop on 'Total Station and DGPS', Organized by the KNU Centre for Entrepreneurship and Skill Development, Kazi Nazrul University in collaboration with CyberSWIFT Infotech Pvt. Ltd., Kolkata, June 28, 2021.
- Organized **World Nature Conservation Day 2020**, July 28, 2020 (Tuesday), KNU Natural Environment Maintenance Committee (a sub-committee under the Campus Environment Promotion & Maintenance Committee) in collaboration with Internal Quality Assurance Cell (IQAC), Kazi Nazrul University.
- **Organizing Secretary**, 'EarthTalks 2020' on Climate Change and Earth's Landscape (One Day International Webinar Talk), Organized by the Department of Geography, Kazi Nazrul University, West Bengal, June 24, 2020.
- **Organising Chairman**, Two Days Workshop on 'Unmanned Aerial Vehicle (UAV) Drone for 3D Mapping Applications', Organized by the Department of Geography, Kazi Nazrul University, West Bengal in collaboration with SkyMap Global (India) Pvt. Ltd, January 10-11, 2019.

Session chair:

- **Chairperson** in Technical Session: 7B, of the IGS - International E-Conference on 'Earth Sciences and Sustainable Development Goals', Organized by Department of Geography, Osmania University, Hyderabad, Telangana in collaboration with the Indian Geographical Society (IGS), Chennai, August 5-7, 2021.
- **Co-Chairperson** in Technical Session: Role of GIS Technology III, of XIV International Geographical Union (IGU)-India International Conference on 'Agriculture, Food, water, Biodiversity and Health in Changing Climate', Organized by Department of Geography, The University of Burdwan, Burdwan, West Bengal, India, March 6-8, 2020.

Reviewer for, in the last five years: Journal of Hydrology (Elsevier), Journal of the Geological Society of India (Springer), Earth Systems and Environment (Springer), International Journal of River Basin Management (Taylor and Francis).

PHD SUPERVISION

Ongoing: Sunanda Banerjee, Arup Kumar Roy, Sukumar Maji

OTHER INFORMATION

- **Open Quaternary Summer Photo Competition 2018 Winner** for field photograph on 'Sandy point bar' of the Ajay River, West Bengal, India (23°38'26.25"N, 88° 1'41.73"E) (<https://www.openquaternary.com/about/photo-comp/>).
- Completed course in **Spanish Guitar** form **Bengal Music College, Kolkata**.
- Engaged in **NCC** at School Level and attended training camps.