

CURRICULUM VITAE

DR. SAYANTAN DAS

Date of Birth: 22.03.1986

E-mail ID: sayantdas@gmail.com

DESIGNATION

Assistant Professor in Geography, Dum Dum Motijheel College, Kolkata-700074.

ACADEMIC BACKGROUND

- Ph.D. (Geography), University of Calcutta, West Bengal, 2018.
- M.Sc. (Geography: Specialization in Geomorphology), University of Pune, Maharashtra, 2009.
- B.Sc. (Geography), Presidency College (University of Calcutta), West Bengal, 2007.

POSITIONS HELD/ HOLDING

- 2017–Present : Assistant Professor in Geography, Dum Dum Motijheel College
- 2013–2017 : College Appointed Whole-time Teacher, Bhairab Ganguly College
- 2011–2013 : CSIR-Senior Research Fellow, Department of Geography, University of Calcutta
- 2009–2011 : CSIR-Junior Research Fellow, Department of Geography, University of Calcutta

TEACHING INTEREST

- Geomorphology, Hydrology, Remote Sensing and GIS, Geostatistics, Population Geography.

Software Skills: ArcGIS, Erdas Imagine, Geomatica, QGIS, SPSS Statistics.

Working Knowledge of Instruments: Differential GPS, Transit Theodolite, Total Station, Echo Sounder.

RESEARCH PROFILE

Ph.D. Thesis:

Evolution of Drainage and Morphology of Bhagirathi-Ganga Interfluvial Region in West Bengal with Special Reference to Palaeochannels.

Supervisor: Prof. Sunando Bandyopadhyay, Department of Geography, University of Calcutta.

M.Sc. Dissertation Thesis:

Spatio-temporal Variations in Land use and Impervious Surfaces in Mula-Mutha Watershed using Satellite Data.

Supervisor: Prof. Amit G. Dhorde, Department of Geography, University of Pune.

PUBLICATIONS:

Journal Paper:

1. Roy, L., Das, S. (2021). GIS-based landform and LULC classifications in the Sub-Himalayan Kaljani Basin: Special reference to 2016 Flood. *The Egyptian Journal of Remote Sensing and Space Science (Elsevier)*, 24(3): 755-767. <https://doi.org/10.1016/j.ejrs.2021.06.005>
2. Sarkar, A., Roy, L., Das, S., Sengupta, S. (2021). Fluvial response to active tectonics: analysis of DEM-derived longitudinal profiles in the Rangit River Basin, Eastern Himalayas, India. *Environmental Earth Sciences (Springer-Verlag GmbH Germany)*, 80, 258: 1-22. <https://doi.org/10.1007/s12665-021-09561-2>
3. Bandyopadhyay, S., Das, S., Kar, N.S. (2021). Avulsion of the Brahmaputra in Bangladesh during the 18th–19th Century: A Review Based on Cartographic and Literary Evidence. *Geomorphology (Elsevier)*, 384, 107696: 1-19. <https://doi.org/10.1016/j.geomorph.2021.107696>
4. Guha, A., Das, S., Guptaroy, P. (2021). নদী—কিছু কথা, কিছু ভাবনা (Rivers—Some words, some thoughts). *Gjnan-o-Bijnan*, 74(8): 325-330.

5. **Das, S.**, Das, A., Kar, N.S., Bandyopadhyay, S. (2020). Cyclone Amphan and its impact on the Lower Deltaic West Bengal: a preliminary assessment using remote sensing sources. *Current Science*, 119(8): 1246-1249. <https://doi.org/10.18520/cs/v119/i8/1246-1249>
6. Hossain, W., **Das, S.** and Dasgupta, S. (2019). Hydro-Geomorphologic Analysis of a Meandering Bend of the Ichhamati River at Hugle-Mathpara Region in North 24 Parganas District, West Bengal, *Indian Journal of Geomorphology*, 7: 29-41. <http://doi.org/10.5281/zenodo.4117540>
7. **Das, S.**, Patel, P.P., Sengupta, S. (2016). Evaluation of different digital elevation models for analyzing drainage morphometric parameters in a mountainous terrain: A case study of the Supin–Upper Tons Basin, Indian Himalayas. *SpringerPlus*, 5(1544): 1-38. [DOI: 10.1186/s40064-016-3207-0](https://doi.org/10.1186/s40064-016-3207-0)
8. Bandyopadhyay, S., **Das, S.**, Kar, N.S. (2015). Discussion: ‘Changing river courses in the western part of the Ganga–Brahmaputra delta’ by Kalyan Rudra (2014), *Geomorphology*, 227, 87–100. *Geomorphology (Elsevier)*, 250: 442-453. [DOI: 10.1016/j.geomorph.2015.02.037](https://doi.org/10.1016/j.geomorph.2015.02.037)
9. **Das, S.**, Kar, N.S., Bandyopadhyay, S. (2015). Glacial lake outburst flood at Kedarnath, Indian Himalaya: a study using digital elevation models and satellite images. *Natural Hazards (Springer Science + Business Media Dordrecht)*, 77(3): 769-786. [DOI: 10.1007/s11069-015-1629-6](https://doi.org/10.1007/s11069-015-1629-6)
10. **Das, S.**, Kar, N.S., Bandyopadhyay, S. (2015). Dimensions of Debris Flow of Kedarnath Disaster 2013: A Study Using Digital Elevation Models. *Geographical Review of India*, 77(4): 295-309. <http://doi.org/10.5281/zenodo.3992877>
11. Kar, N.S., **Das, S.**, Bandyopadhyay, S. (2015). কেদারনাথ বিপর্যয়–২০১৩: একটি পর্যালোচনা (Kedarnath Disaster–2013: A Review). *Himalaya Prasanga*, pp. 47-50.
12. Kar, N.S., **Das, S.** (2014). বন্যাপ্রবণ ঘাটাল ব্লক-একটি ভৌগোলিক সমীক্ষা (A Geographical Analysis of Flood Vulnerability in Ghatal Region, West Bengal, India). *Bhugol-o-Paribesh*, 2(3): 25-30.
13. **Das, S.**, Dhorde, A., Dhorde, A. (2013). Assessment of Impervious Surface Growth in the Mula-Mutha Watershed in Maharashtra. *Geographical Review of India*, 75(3): 281-296. <http://doi.org/10.5281/zenodo.3993086>
14. Dhorde, A., **Das, S.**, Dhorde, A. (2012). Evaluation of Land Use/Land Cover Change in Mula-Mutha Watershed, Pune Urban Agglomeration, Maharashtra, India: Based on Remote Sensing Data. *Earth Science India*, 5(3): 108-121. <http://doi.org/10.5281/zenodo.3993102>
15. **Das, S.** (2012). বিলুপ্তির পথে খাজিয়ার হ্রদ (Khajiar Lake: On the verge of extinction). *Himalaya Prasanga*, pp. 29-37.
16. **Das, S.** (2012). Land Use Classification Using Modern Techniques. *The Observer*, 50: 54-57.
17. **Das, S.** (2011). Google Earth: A Contemporary Way to Explore the World. *The Observer*, 49: 46-51.

Book Chapter:

18. Kar, N.S., **Das, S.**, Bandyopadhyay, S. (2020). Anthropogeomorphology of the Lower Deltaic West Bengal with Special Reference to the Hugli River System. In: Das, B.C., Ghosh, S, Islam, I., Roy, S. (eds.) *Anthropogeomorphology of Bhagirathi-Hooghly River System in India*, CRC Press, pp. 83-122. https://doi.org/10.1201/9781003032373_3
19. Kar, N.S., **Das, S.** (2020). Flood-Prone Ghatal Region, India: A Study on Post-‘Phailin’ Inundations of 2013. In: Bandyopadhyay, S., Magsi, H., Sen, S., Ponce Dentinho, T. (Eds) *Water Management in South Asia. Contemporary South Asian Studies* (Springer, Cham), pp. 69-89. https://doi.org/10.1007/978-3-030-35237-0_5
20. Patel, P.P., **Das, S.** (2017). Towering Rocky Slabs of Jamsola. In: Kale, V. (Ed.) *Atlas of Geomorphosites in India*. Indian Institute of Geomorphologists (IGI), pp. 45-47. <http://doi.org/10.5281/zenodo.3993106>
21. Bandyopadhyay, S., Kar, N.S., **Das, S.**, Sen, J. (2014). River systems and water resources of West Bengal: A Review. In: Vaidyanadhan, R. (Ed.) *Rejuvenation of Surface Water Resources of India: Potential, Problems and Prospects*. Geological Society of India, Special Publication 3, pp. 63-84. [DOI: 10.17491/cgsi/0/v0i0/62893](https://doi.org/10.17491/cgsi/0/v0i0/62893)

22. **Das, S.**, Bandyopadhyay, S. (2012). Degeneration of Jalangi River: An Investigation Based on Maps and Satellite Images. In: Desai, M. and Halder, S. (Ed.) *Coping with Disasters: Mitigation Strategy, Preventive Action and Recover*. Abhijit Publications, pp. 66-85. <http://doi.org/10.5281/zenodo.3993124>

Conference Proceeding:

23. **Das., S.**, Roy, L., Sarkar, A., Sengupta, S. (2020). Mathematical modelling of long profiles in a tectonically active area: Observations from the DEM-based geomorphometry of the Rangit River, India. In: Alvioli, M., Marchesini I., Melelli, L., Guth, P. (eds) *Proceedings of the Geomorphometry 2020 Conference*, pp. 124-127. [DOI:10.30437/GEOMORPHOMETRY2020_35](https://doi.org/10.30437/GEOMORPHOMETRY2020_35)

Reviewer of Journals:

- *Arabian Journal of Geosciences*, Springer Nature Switzerland AG [ISSN: 1866-7511].
- *Journal of Geoscience and Environment Protection*, Scientific Research Publishing [ISSN: 2327-4344].
- *Indian Journal of Geomorphology*, Indian Institute of Geomorphologists [ISSN: 2320-0731].
- *Safety in Extreme Environments*, Springer Nature Switzerland AG [ISSN: 2524-8189].
- *Regional Studies in Marine Science*, Elsevier [ISSN: 2352-4855].
- *International Journal of Digital Earth*, Taylor & Francis [ISSN: 1753-8955].
- *Advances in Remote Sensing*, Scientific Research Publishing [ISSN: 2169-2688].

NUMBER OF SEMINAR PRESENTATIONS:

- International: **20**; National: **28**; State level: **1**
- Invited Lectures: **10**

Sessions Chaired/ Co-chaired:

- ‘Natural and Man-made Disaster Management’ in the *12th World Congress* of the Regional Science Association International (RSAI) in 2018.
- ‘Water Resource Management III’ in the *14th International Geographical Union (IGU)-India International Conference* on ‘Agriculture, Food, Water, Biodiversity and Health in Changing Climate’ in 2020.
- ‘Applicability of RS and GIS in Risk Assessment’ in the *IGU Commission on Hazard and Risk, International Geographical Union (IGU) International Webinar* on ‘Innovations in Disaster Risk Reduction: Aiming Towards a Resilient Society’ in 2020.
- ‘Role of Remote Sensing and GIS in Geomorphological Studies’ and ‘Young Geomorphologists Competition’ in the *33rd Conference of the Indian Institute of Geomorphologists (IGI): Online International Conference* on ‘Geomorphology and Environmental Sustainability’ in 2021.

NUMBER OF WORKSHOP/ CAPACITY BUILDING COURSE PARTICIPATIONS:

- International: **3**; National: **12**

WORKSHOP/CONFERENCE ORGANIZER:

- **Organising Secretary** in *National Seminar on ‘Contemporary Research in Geography’* in 2016, Organizer: Department of Geography, Bhairab Ganguly College.
- **Co-convener** in the *1st Intensive Training Programme* for ‘The Young Geomorphologists of India’ in 2020, Organizer: IGI-Young Geomorphologists Forum, Host: Department of Geography, University of Calcutta.
- **Organising Secretary** in the *32nd National Conference of the Indian Institute of Geomorphologists (IGI)* on ‘*Geomorphology for Human Adaptation to Changed Environment*’ in 2021, Organizer: Indian Institute of Geomorphologists (IGI), Host: Department of Geography, West Bengal State University.
- **Convener** in the *2nd Intensive Training Programme (Online Event)* for ‘The Young Geomorphologists’ in 2021, Organizer: IGI-Young Geomorphologists Forum.

MEMBERSHIPS OF LEARNED SOCIETIES

- *Indian Society of Geomatics (ISG)*, Ahmedabad.
- *Geographical Society of India*, Kolkata.
- *Himalaya Samiksha Parishad*, Kolkata.
- *Institute of Indian Geographers (IIG)*, Pune.

- *Indian Science Congress Association (ISCA)*, Kolkata.
- *Indian Institute of Geomorphologists (IGI)*, Allahabad.
- *International Society for Photogrammetry and Remote Sensing (ISPRS)*, Germany.
- *International Association of Hydrological Sciences (IAHS)*, England.

AWARDS

- Awarded ‘Junior Research Fellowship (JRF)’ and declared eligible for Lectureship (NET) in the subject of *Earth Atmosphere, Planetary and Ocean Sciences* in the Joint CSIR-UGC Test for *Junior Research Fellowship and Eligibility for Lectureship (NET)* held in December 2008.
- Selected as a chapter nominee by the Indian Society of Remote Sensing (ISRS) for participating in the ISRS Pre-Symposium Tutorial on ‘*Crop Area Assessment, Mapping and Modeling*’ and Annual Convention of ISRS and National Symposium on ‘*Empowering Rural India through Space Technology*’ held in Bhopal, India, 2011.
- Won Best Poster Award in National Seminar on ‘*Himalaya: Environment and Development*’ for the presentation on “Exploring the Tranquil Beauty of the Himalayas: The Har-Ki-Dun Valley Trek”, 2012.
- Best Poster of the 2nd session of Earth System Sciences in the 100th *Indian Science Congress* for the presentation on “An Account of the Decayed Upper Course of Jalangi River, West Bengal”, 2013.
- Awarded as one of the winners of *Google India Mapathon 2013* by Google Inc.
- Won Best Presentation Award in the Indian Society of Remote Sensing (ISRS), Kolkata Chapter-organized *National Remote Sensing Day* on ‘*Geospatial Technology and Climate Change*’ for the presentation on “Kedarnath Disaster 2013: Evidences from Satellite Data”, 2013.
- Awarded foreign travel grants by the Council of Scientific and Industrial Research (CSIR), UGC-DPO, University of Calcutta and ETO, University of Calcutta to attend the 8th *IAG International Conference on Geomorphology* on ‘*Geomorphology and sustainability*’ held in Paris, France, 2013.
- Selected among the top 20 Young Geomorphologists and received grant from the International Association of Geomorphologists (IAG) for the 9th *IAG International Conference of Geomorphology* on ‘*Geomorphology and Society*’ held in New Delhi and Dehradun, India, 2017.
- Received scholarship from Universitas Gadjah Mada, Indonesia for participating in the *Summer Course* on ‘*Ecosystem-based Disaster Risk Reduction in the Tropics*’ held in Yogyakarta, Indonesia, 2018.
- Selected among the top 15 Young Geomorphologists and received grant from the International Association of Geomorphologists (IAG) for the IAG Regional Conference of Geomorphology on ‘*Geomorphology of Climatically and Tectonically sensitive areas*’ held in Athens, Greece, 2019.
- Awarded foreign travel grants by the Council of Scientific and Industrial Research (CSIR) and University Grants Commission (UGC) to attend the IAG Regional Conference of Geomorphology on ‘*Geomorphology of Climatically and Tectonically sensitive areas*’ held in Athens, Greece, 2019.