

CURRICULUM VITAE

Name: Subodh Chandra Pal

Designation: Assistant Professor, Department of Geography

Qualification: M.A., M.Sc., Ph.D.

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Research Activities & Guidance:

Ph.D.: Ongoing: 04

M.Phil.: Awarded: 01, Ongoing: 01

Projects Completed:

1. Soil Loss Estimation of Dwarkeswar River Basin using Remote Sensing and GIS Techniques, funded by NRDMS, DST, Government of India.
2. Application of Multi-Criteria Analysis for Estimation of Changes in Vegetation Cover Density Using Remote Sensing Technique, Sali River Basin, West Bengal, funded by The University of Burdwan.

Selected Articles published in Journals:

1. Indrajit Chowdhuri, Subodh Chandra Pal and Rabin Chakraborty (2019), "Flood susceptibility mapping by ensemble evidential belief function and binomial logistic regression model on river basin of eastern India", Advances in Space Research (Elsevier), DOI 10.1016/j.asr.2019.12.003, ISSN: 0273-1177 (Online), IF-1.746
2. Biswajit Das and Subodh Chandra Pal (2019), "Combination of GIS and fuzzy-AHP for delineating groundwater recharge potential zones in the critical Goghat-II block of

West Bengal, India”, *HydroResearch (Elsevier)*, Volume 02, pp. 21-30, DOI: 10.1016/j.hydres.2019.10.001, ISSN: 2589-7578

3. Sadhan Malik and Subodh Chandra Pal (2019), “Impact of groyne on channel morphology and sedimentology in an ephemeral alluvial river of Bengal Basin”, *Environmental Earth Sciences (Springer)*, Volume 78, Issue 22, pp. 01–20, DOI:10.1007/s12665-019-8642-0, ISSN: 1866-6280 (Print) 1866-6299 (Online), IF-1.871
4. Biswajit Das and Subodh Chandra Pal (2019), “Assessment of groundwater recharge and its potential zone identification in groundwater stressed Goghat-I block of Hugli District, West Bengal, India”, *Environment, Development and Sustainability (Springer)*, DOI: 10.1007/s10668-019-00457-7, ISSN: 1387-585X (Print) 1573-2975 (Online) IF-1.676
5. Sadhan Malik, Subodh Chandra Pal, Biswajit Das and Rabin Chakraborty (2019), “Assessment of vegetation status of Sali River Basin, a tributary of Damodar River in Bankura District, West Bengal using satellite data”, *Environment, Development and Sustainability (Springer)*, DOI: 10.1007/s10668-019-00444-y, ISSN: 1387-585X (Print) 1573-2975 (Online) IF-1.676
6. Sadhan Malik and Subodh Chandra Pal (2019), “Is the construction of Groynes accelerating the degradation of channel morphology and paved the way for human encroachment in The Bengal Basin?”, *Advances in Space Research (Elsevier)*, Volume 64, Issue 8, pp. 1549–1576, DOI 10.1016/j.asr.2019.07.024, ISSN: 0273-1177 (Online), IF-1.746
7. Sadhan Malik, Subodh Chandra Pal, Biswajit Das and Rabin Chakraborty (2019), “Intra-annual variations of vegetation status in a sub-tropical deciduous forest dominated area using geospatial approach: a case study of Sali watershed, Bankura, West Bengal, India”, *Geology, Ecology, and Landscapes (Taylor & Francis Group)*, DOI 10.1080/24749508.2019.1633219, ISSN: (Print) 2474-9508 (Online)
8. Subodh Chandra Pal, Biswajit Das and Sadhan Malik (2019), “Potential Landslide Vulnerability Zonation using Integrated Analytic Hierarchy Process and GIS Technique of Upper Rangit Catchment Area, West Sikkim, India”, *Journal of the Indian Society of Remote Sensing (Springer)*, Volume 47, Issue 10, pp. 1643–1655, DOI 10.1007/s12524-019-01009-2, ISSN: 0255-660X (Print) 0974-3006 (Online), IF-0.869

9. Subodh Chandra Pal and Rabin Chakrabortty (2019), "Simulating the Impact of Climate Change on Soil Erosion in Sub-tropical Monsoon dominated Watershed based on RUSLE, SCS Runoff and MIROC5 Climatic Model", *Advances in Space Research* (Elsevier), Volume 64, Issue 2, pp. 352-377, DOI 10.1016/j.asr.2019.04.033, ISSN: 0273-1177 (Online), IF-1.746
10. Subodh Chandra Pal and Indrajit Chowdhuri (2019), "GIS-based spatial prediction of landslide susceptibility using frequency ratio model of Lachung River basin, North Sikkim, India", *SN Applied Sciences* (Springer), Volume 1, Issue 5, pp. 1-25, DOI 10.1007/s42452-019-0422-7, ISSN: 2523-3963 (Print) 2523-3971 (Online)
11. Biswajit Das, Subodh Chandra Pal, Sadhan Malik and Rabin Chakrabortty (2019), "Living with floods through geospatial approach: a case study of Arambag C.D. Block of Hugli District, West Bengal, India", *SN Applied Sciences* (Springer), Volume 1, Issue 4, pp. 1-10, DOI 10.1007/s42452-019-0345-3, ISSN: 2523-3963 (Print) 2523-3971 (Online)
12. Biswajit Das, Subodh Chandra Pal, Sadhan Malik and Rabin Chakrabortty (2019), "Modeling Groundwater Potential Zones of Puruliya District, West Bengal, India using Remote Sensing and GIS Techniques", *Geology, Ecology, and Landscapes* (Taylor & Francis Group), Volume 3, Issue 3, pp. 223–237, DOI 10.1080/24749508.2018.1555740, ISSN: (Print) 2474-9508 (Online)
13. Subodh Chandra Pal, Rabin Chakrabortty (2018), "Modeling of water induced surface soil erosion and the potential risk zone prediction in a sub-tropical watershed of Eastern India", *Modeling Earth System and Environment* (Springer), Volume 5, Issue 2, pp. 369-393, DOI 10.1007/s40808-018-0540-z, ISSN: 2363-6203 (Print) 2363-6211 (Online)
14. Chiranjit Ghosh and Subodh Chandra Pal (2018), "Solid Waste Disposal Site Selection and Suitable Management Strategy of Bardhaman Municipality, West Bengal, India", *Indian Journal of Geography & Environment*, Volume 15-16, pp. 12-24, ISSN: 0972-7388 (Print and Online)
15. Rabin Chakrabortty, Subodh Chandra Pal, Sadhan Malik, and Biswajit Das (2018), "Modeling and mapping of groundwater potentiality zones using AHP and GIS technique: a case study of Raniganj Block, Paschim Bardhaman, West Bengal", *Modeling Earth System and Environment* (Springer), Volume 4, Issue 3, pp. 1085-1110, DOI 10.1007/s40808-018-0471-8, ISSN: 2363-6203 (Print) 2363-6211 (Online)

16. Rabin Chakraborty, Subodh Chandra Pal, Sk Najrul Islam, Biswajit Das and Sadhan Malik (2018), "Subsurface Lithofacies and its Geomorphic Significance: A Case Study of Teesta River, West Bengal, India", *International Journal of Environmental Sciences & Natural Resources*, Volume 10 Issue 2, pp. 001-013, DOI: 10.19080/IJESNR.2018.10.555782, ISSN: 2572-1119
17. Subodh Chandra Pal, Rabin Chakraborty, Sadhan Malik, and Biswajit Das (2018), "Application of forest canopy density model for forest cover mapping using LISS-IV satellite data: a case study of Sali watershed, West Bengal", *Modeling Earth System and Environment* (Springer), Volume 4, Issue 2, pp. 853–865, DOI 10.1007/s40808-018-0445-x, ISSN: 2363-6203 (Print) 2363-6211 (Online)
18. Biswajit Das, Subodh Chandra Pal and Sadhan Malik (2018), "Assessment of flood hazard in a riverine tract between Damodar and Dwarkeswar River, Hugli District, West Bengal, India", *Spatial Information Research* (Springer), Volume 26, Issue 1, pp. 91-101, DOI 10.1007/s41324-017-0157-8, ISSN: 2366-3286 (Print) 2366-3294 (Online)
19. Subodh Chandra Pal and Manisa Shit (2017), "Application of RUSLE model for soil loss estimation of Jaipanda watershed, West Bengal", *Spatial Information Research* (Springer), Volume 25, Issue 3, pp. 399-409, DOI 10.1007/s41324-017-0107-5, ISSN: 2366-3286 (Print) 2366-3294 (Online)
20. Sadhan Malik, Subodh Chandra Pal, Biswajit Das and Baisakhi Das (2017), "Chute cut-off processes along a small alluvial channel: a case study of Sangra Khal, sub-tributary of Gour Nadi, West Bengal, India", *Modeling Earth System and Environment* (Springer), Volume 3, Issue 1, pp. 1-11, DOI 10.1007/s40808-017-0307-y, ISSN: 2363-6203 (Print) 2363-6211 (Online)
21. Sadhan Malik, Baisakhi Das, Biswajit Das and Subodh Chandra Pal (2016), "Analysis of precipitation for the past 20th century and its multi-decadal oscillation: a case study of Bankura Town, Bankura, West Bengal", *Modeling Earth System and Environment* (Springer), Volume 2, Issue 4, pp. 1-5, DOI 10.1007/s40808-016-0262-z, ISSN: 2363-6203 (Print) 2363-6211 (Online)
22. Amrit Kamila and Subodh Chandra Pal (2015), "Urban Growth Monitoring and Analysis of Environmental Impacts on Bankura-I and II Block using Landsat Data", *International Journal of Advanced Remote Sensing and GIS*, Volume 4, Issue 1, pp. 965-975, ISSN: 2320 – 0243

23. Amrit Kamila and Subodh Chandra Pal (2015), "Monitoring of Land Surface Temperature and Analyzing of Environmental Prediction on Asansol and Durgapur Sub-division, Burdwan District, West Bengal using Landsat Imagery", International Journal of Remote Sensing & Geoscience, Volume 4, Issue 1, pp. 33-36, ISSN: 2319-3484

Selected Chapters Contributed in Edited Volumes:

1. Asish Saha, Manoranjan Ghosh and Subodh Chandra Pal (2020), "Understanding the Morphology and Development of a Rill-Gully: An Empirical Study of Khoai Badland, West Bengal, India", Springer Nature Switzerland, pp. 147-161, DOI 10.1007/978-3-030-23243-6_9, ISBN 978-3-030-23243-6
2. Biswajit Das, Subodh Chandra Pal, Sadhan Malik, Rabin Chakraborty and Tanu Rani Sahu (2018), "Demarcation of Groundwater Potential Zone of Koiya Drainage Basin using RS and GIS Techniques, Birbhum District, West Bengal", Rhito Prakashan, pp. 94-114, ISBN 978-81-938090-8-2
3. Sadhan Malik, Subodh Chandra Pal, Biswajit Das and Rabin Chakraborty (2018), "Investigation on Vegetation Health Condition using Different Vegetation Indices: A Case Study of Sali River Basin, Bankura District, West Bengal", Rhito Prakashan, pp. 132-145, ISBN 978-81-938090-8-2
4. Suman Deb Barman, Aznarul Islam, Balai Chandra Das, Sunipa Mandal and Subodh Chandra Pal (2019), "Imprints of Neo-tectonism in the Evolutionary Record Along the Course of Khari River in Damodar Fan Delta of Lower Ganga Basin", Springer International Publishing AG, part of Springer Nature, pp. 105-126, DOI 10.1007/978-3-319-90427-6_6, ISBN 978-3-319-90426-9 (Print) 978-3-319-90427-6 (Online)
5. Biswajit Das and Subodh Chandra Pal (2018), "Decaying of the Saraswati River in West Bengal: Its Causes and Consequences", Concept Publishing Company Pvt. Ltd., pp. 27-46, ISBN 978-93-86682-26-0

International / National Seminars / Workshops Attended:

Sl. No.	Seminars / Workshops	Sponsoring Agency	Title of The Paper Presented	Place and Date
1	The 7 th ANGIS International Conference, 2018 on GIS-Connecting Geography, History & Economics... Looking Beyond Where	ANGIS	Quantification of Groundwater Potential Zone identification in a selected part of Hugli District using Remote Sensing and GIS	The University of Burdwan, 29 th November to 1 st December 2018
2	30 th National Conference of Indian Institute of Geomorphologists (IGI) on Geomorphology, Environment and Society	Jamia Millia Islamia and IGI	Anthropogenic activity and Channel Morphology of Dwarkeswar River, A tributary of Damodar Mundeswari Catchment	Jamia Millia Islamia, 3-5 th October, 2018
3	4 th International Seminar on	University of	Groundwater Prospect Zones	University of Gour

	Population, Urbanization and Environment: Contemporary Issues and Challenges	Gour Banga	of Raniganj C.D. Block, Paschim Bardhaman District	Banga, 21-22 March, 2018
4	39th Annual Meet and Conference of Institute of Indian Geographers (IIG) on Population, Environment and Sustainable Development	Institute of Indian Geographers	Determination of sites for urban solid waste disposal using AHP and GIS techniques of Barddhaman Municipality, West Bengal, India	Ravenshaw University, 26 th – 28 th December, 2017
5	3 rd International Seminar on System Dynamics, Human-Nature Interaction & Societal Discourse	The University of Burdwan and ABG	Changing nature of vegetation status and its relation with rainfall: a case study of Sali river Basin, West Bengal, India	The University of Burdwan, 18 th November, 2017
6	The Deccan Geographical Society, India 12 th International Geography Conference on Environmental Changes in South and South-East Asia: Challenges and Prospects	Deccan Geographical Society, India	Downstream Adverse Channel Morphology of Western Part of West Bengal	Pt. Ravishankar Shukla University, 24 th - 26 th September, 2017
7	3 rd International Seminar on Earth System Processes and Interruptions: Issues and Challenges	University of Gour Banga	Identification of Paleo-channels of Lower Dwarkeswar River using Integrated Geospatial Approach	University of Gour Banga, April, 2017
8	2 nd International Seminar on Environment and Society: Historical Perspectives and Contextual Reality	The University of Burdwan	Multi-decadal Oscillations of Year Wise Daily Maximum Precipitation Events and its Trend Analysis: A Case Study of Kolkata Metropolitan Area	The University of Burdwan, 28 th March, 2017
9	X International Geographical Union, Conference on Urbanization, Health & Well Being and Sustainable Development Goals	IGU	Multi-decadal Oscillatory behaviour and Trends of Mean Temperature of Kolkata, West Bengal, India	Osmania University, Hyderabad, 17 th - 19 th March, 2017
10	UGC and ISRS Sponsored National Seminar on Geoinformatics for Environmental Issues and Management (GEIM-2017)	UGC and ISRS	Assessing intra-annual pixel-wise vegetation dynamics of Sali River basin using Landsat 8 Data	Vidyasagar University, 16 th - 17 th March, 2017
11	UGC Sponsored National seminar on Application and Emerging Trends of Geospatial Technologies for Sustainable Resource Analysis and Management	UGC	Investigation of Flood Events in an Interfluvial Region within Arambag Sub-Division, West Bengal	Kabi Sukanta Mahavidyalaya, 13 th January, 2017
12	UGC Sponsored Two-Day National seminar on Food Security & Urbanization Equilibrium: A Sustainable Man-System Approach	U.G.C.	Assessment of Unplanned Solid Waste Management Practices in Katwa Municipality, Bardhaman	Birbhum Mahavidyalaya, 22 th -23 th November, 2016
13	6 th NAGI International Conference	NAGI	Analysis of Maximum Monthly Precipitation Trends and its Natural Variability, a Case Study of Bankura Town, Bankura, West Bengal	Nalanda Open University, Patna, 18 th -20 th November, 2016
14	36 th INCA International Congress on Cartography for Analysis and Management of Climate Change	INCA	Analysis of Flood Frequency and Flood Affected Area – An Interfluvial Region between Damodar and Dwarkeswar	Visva-Bharati, 9 th - 11 th November, 2016

			River, Hugli District, West Bengal, India	
15	1 st Regional Science & Technology Congress-2016	DST	Wetland Monitoring and Change Detection Study Using NDWI Method of Bardhaman Sadar North Sub-Division, West Bengal	Bankura Christian College, 7 th – 8 th November, 2016
16	International Seminar on Environmental Degradation due to Human Interference	Raiganj University	Assessment of Forest Cover Degradation using LANDSAT Data of Bankura District, West Bengal	Raiganj University, 6 – 8 th March, 2016
17	UGC Sponsored National Seminar on Man-Environment Interrelations: Issues, Challenges and Remedies	U.G.C.	Estimation of Relationship among Soil Moisture and Vegetation Status Using LANDSAT-7 Data of Sali River, West Bengal	Bankura Christian College, 2 nd – 3 rd December, 2015
18	UGC-SAP-DRS National Seminar on Dimensions of Resources and Development in the Western Region of West Bengal	UGC-SAP-DRS	Soil Loss Estimation of Jaipanda Watershed using RUSLE Model	The University of Burdwan, 26 th - 27 th March, 2015
19	UGC Sponsored Two-Day National seminar on Environment and Population Growth Biophysical limit and Sustainability	U.G.C.	Assessment of Soil Erosion and its Impact on Environment: A Case Study of Jaipanda Watershed	Bankura Zilla Saradamani Mahila Mahavidyapith, 21-22 April, 2014
20	National Seminar on Research Frontiers in Man-Nature Interface	Foundation of Practising Geographers	Remote Sensing and GIS Approach for Dealing of Groundwater Potential Zone of Betal River Basin, Paschim Midinipur, West Bengal	Visva-Bharati, 1 st and 2 nd March, 2014
21	National Symposium on Space Technology for Food & Environmental Security & Annual Conventions of Indian Society of Remote Sensing & Indian Society of Geomatics	Indian Society of Remote Sensing Jointly with Indian Society of Geomatics	Runoff Modelling for the Upper Part of the Dwarkeswar Watershed using Satellite Data and GIS	National Agricultural Science Centre (NAS) Complex, New Delhi, 55 th - 7 th December, 2012
22	XXXII INCA International congress on Cartography for Sustainable Earth Resource Management	INCA and National Hydrographic Office	Morphometric and Hydrological Analysis for the Upper Part of the Dwarkeswar Watershed using Remote Sensing and GIS Techniques	AMN Ghosh Auditorium, ONGC, Dehradun, 11 th -13 th October, 2012
23	UGC Sponsored National seminar on Emerging trends in Geography	U.G.C.	Relationship between Relief and Agricultural land use in Bankura-I and II Block, using Remote Sensing and GIS Techniques	Bankura Christian College, 16 th -17 th December, 2011

Lectures Delivered as Resource Person:

1. Terrain Analysis in QGIS, UGC-CPE Sponsored Short Term Course on Geoinformatics in Collaboration with NRDMs, Development and Planning

Department, Govt. of West Bengal, Department of Geography, Bankura Christian College, 5th March 2016

2. Image Classification and LULC Map Preparation in QGIS, UGC-CPE Sponsored Short Term Course on Geoinformatics in Collaboration with NRDMS, Development and Planning Department, Govt. of West Bengal, Department of Geography, Bankura Christian College, 4th March 2016
3. Map Making using Open Source Software, 4th Refresher Course in Geography, UGC-Human Resource Development Centre, The University of Burdwan, 8th February 2016.
4. Three Day training programme on Q-GIS open source software organized by the Department of Geography, The University of Burdwan, Burdwan (27th to 29th March, 2015).
5. Three Day training programme on Q-GIS open source software organized by the Department of Geography, The University of Burdwan, Burdwan (27th, 28th February and 2nd March, 2015).

Reviewer of the following Journals:

- Catena
- Geoscience Frontiers
- Environment, Development and Sustainability
- Georisk: Assessment and Management of Risk for Engineered Systems and Geohazards
- Water Science
- Heliyon
- Applied Geomatics
- Spatial Information Research
- Modeling Earth Systems and Environment
- Applied Water Science
- GeoJournal
- Sustainable Water Resources Management
- Arabian Journal of Geosciences
- Acta Geophysica