



UNIVERSITY OF CALCUTTA
UGC- Human Resource Development Centre
[FACULTY ACADEMIC PROFILE/ CV]



Name DR. LAKSHMINARAYAN SATPATI

Date of birth 12 November, 1971

Designation Professor of Geography and Director, UGC- Human Resource Development Centre, University of Calcutta

Specialisation Geography

Contact information

Residential address:	Flat 3A, Gangotri Residency 650, Rabindra Sarani, Kolkata- 700 003
Office Address:	UGC-Human Resource Development Centre, University of Calcutta, 92, Acharya Prafulla Chandra Road, Kolkata-700 009, West Bengal, India
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5. Academic qualifications:

College/ university from which the degree was obtained	Abbreviation of the degree	Year
University of Calcutta	B. Sc. with Hons. in Geography	1992
University of Calcutta	M. Sc. in Geography with specialisation in Meteorology/ Advanced Climatology	1994
University of Calcutta	Ph. D. (Sc) in Geography	2002

6. Positions held/ holding:

- a. Lecturer of Geography, Lal Baba College, University of Calcutta: Jan. 1999-2002
- b. Senior Lecturer of Geography, Lal Baba College, University of Calcutta: Jan. 2002-2006
- c. Lecturer, Dept. of Geography, University of Calcutta: Oct. 2006-2008
- d. Reader, Dept. of Geography, University of Calcutta: Jan. 2008-2011
- e. Associate Professor, Dept. of Geography, University of Calcutta: Jan. 2011-2014
- f. Professor, Dept. of Geography, University of Calcutta: Jan. 2014-2017
- g. Honorary Director, UGC-Human Resource Development Centre, University of Calcutta: Sep. 2015-2017
- h. Professor and Head, Dept. of Geography, University of Calcutta: 2017 (Apr. - Jul.)
- i. Professor and Director, UGC-Human Resource Development Centre, University of Calcutta: Jul. 2017-till date (substantive post).

7. Research interests:

Please cite briefly the areas of research interests

- Climate, Water Resources, and Geoforms
- Population, Environment and Development
- Hazards and disasters, Capacity building
- Curricula and Human Resource Development in Higher Education

8. Research guidance (Names of the Ph D Scholars):

- Number of research scholars awarded M. Phil/Ph. D. degrees:

Ph D Awarded- 15

Prakash Narayan Santra	Madhab Mandal	Swati Mandal
Sriparna Sen Gupta	Anwasha Haldar	Ajay Debnath
Rajat Halder	Rimi Ray	Sujay Sadhu
Ashis Biswas	Angushimita Chakrabarty	Raja Ghosh
Gargi Chakraborty	Satyabrata Mandal	Pradip Patra

- Ph. D. thesis Submitted/ Registered- 02

Moumita Ghosh (Submitted)

Lopamudra Ganguly (Registered)

- Ph. D. Enrolled- 03

Rajat Paul

Madhusudan Pramanick

Surajit Kar

- JRF Scholars: 02

Pallobi Halder

Amir Khan

- Number of Ph.D. research scholars (awarded/Enrolled as Jt. Supervisor): 09

Joint Supervisor in Geography Department, CU : 05 (Registered)	Joint Supervisor in Education Department, CU : 01 (Registered)
Joint Supervisor in Atmospheric Science Department, CU : 03 (Awarded)	

- Mentor of Post Doctoral Fellows: 02 completed (Names).

Dr. Sanghamitra Sarkar	Dr. Asraful Alam
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- M Phil Programme of Vinayak Mission University, Salem (with permission from the Hon'ble Vice Chancellor, CU during 2006-09): Awarded 12

- **PhD committee/ RAC member**

- Jadavpur University, Kolkata
- IEST, Shibpur
- Mizoram University, Aizawl
- Kazi Nazrul University (KNU), Asansol
- University of Gour Banga, Malda
- Presidency University, Kolkata
- Department of Agricultural Sciences, University of Calcutta
- Department of Atmospheric Science, University of Calcutta
- Department of Geography, University of Calcutta

9. Lecture Delivered in PhD coursework in University of Calcutta

Name of the Departments: Department of Geography, Environmental Science, Anthropology and Museology of the University of Calcutta. **Keynote Speaker:** UGC-STRIDE programme, KNU on Hydro-geomorphology, and Urban Climate & Geo-spatial Techniques (Inaugural speaker)

10. Projects (Completed)

- (1) UGC Minor Research Project in 2001-2003, at Lal Baba College, Howrah
- (2) UGC-DRS (SAP) Phase- 1, 2007-12 as Co-investigator; and UGC-DRS (SAP) Phase-II, 2013-18 as Co- investigator and Deputy Coordinator.
- (3) Co-PI of DST Sponsored Major Project on ‘Climate Extremes: Observation, Analysis and Modeling’ in Department of Atmospheric Science, CU in 2017-18.

11. Select list of publications:

a) Journals:

- 2022: *India's achievement towards sustainable Development Goal 6 (Ensure availability and sustainable management of water and sanitation for all) in the 2030 Agenda* (With Biswas, S., Dandapat, B. and Alam, A.). *BMC Public Health (Impact Factor: 4.5) 22*, 2142 (2022). <https://doi.org/10.1186/s12889-022-14316-0>.
- 2022: *Dynamics River Networks and Determination of the Flood Potential in Lower Brahmaputra Valley Using Geoinformatics* (With Alam, A., Paul, R.K., Khan, A., Satpati, L., Ghosal, N.). In: Pradhan, B., Shit, P.K., Bhunia, G.S., Adhikary, P.P., Pourghasemi, H.R. (eds) *Spatial Modelling of Flood Risk and Flood Hazards. GIScience and Geo-environmental Modelling*. Springer, Cham. https://doi.org/10.1007/978-3-030-94544-2_5.
- 2022: *A Review of Rural Housing Schemes in India for Sustainable Habitats* (Alam, A., and Mandal, I.). In: Kundu, A., Ponce Dentinho, T., Magsi, H., Basu, K., Bandyopadhyay, S. (eds) *Accessible Housing for South Asia*. Springer, Cham. https://doi.org/10.1007/978-3-030-88881-7_7.
- 2022: *Characteristics and trend analysis of absolute and relative temperature extremes indices and related indices of Kolkata* (With Patra, P.). *Theor Appl Climatol* 148, 943–954 (2022). <https://doi.org/10.1007/s00704-022-03975-z>.
- 2022: *Climate Change Hazard Perception and Gender Empowerment for Resilience in the Regions of Tropical Asia* (With Haldar, A.). In: Siddiqui, A.R., Sahay, A. (eds) *Climate Change, Disaster and Adaptations. Sustainable Development Goals Series*. Springer, Cham. https://doi.org/10.1007/978-3-030-91010-5_7.
- 2022: *Anthropogenic Interventions and Urban Hydro-Geomorphologic Hazards in Kolkata, India* (Haldar, A., Khatun, N., and Dutta, A.). In: Bhunia, G.S., Chatterjee, U., Lalmalsawmzauva, K., Shit, P.K. (eds) *Anthropogeomorphology. Geography of the Physical Environment*. Springer, Cham. https://doi.org/10.1007/978-3-030-77572-8_25.
- 2022: *Application of Remotely Sensed Data for Estimation of Indices to Assess Spatiotemporal Aspects of Droughts in Bankura District of West Bengal, India* (with Alam A., Paul R.K.) In: Jana N.C., Singh R.B. (eds) *Climate, Environment and Disaster in Developing Countries. Advances in Geographical and Environmental Sciences*. Springer, Singapore. https://doi.org/10.1007/978-981-16-6966-8_23.
- 2021: *Resource Availability and Socio-economic Profile of Scheduled Caste (SC) Community in Agrarian Society: Approach Towards Sustainability* (with Alam A.). In: Rukhsana, Alam A. (eds) *Agriculture, Food and Nutrition Security*. Springer, Cham. https://doi.org/10.1007/978-3-030-69333-6_11.
- 2021: *Extreme climatic events: A review of trends, vulnerabilities and adaptations in the South Asia Region* (with Mandal S, Patra P & Haldar A). In Kar, M., Mukhopadhyay, J., & Deb Sarkar, M. (Eds.). (2021). *South Asia and Climate Change: Unravelling the Conundrum* (1st ed.). Routledge India. <https://doi.org/10.4324/9781003045731>.

- 2021: *Environmental Vulnerability and Displacement Due to Land Erosion: Selected Case Studies in West Bengal, India* (with Haldar A., Das S., Chatterjee R.). In: Rukhsana, Haldar A., Alam A., Satpati L. (eds) *Habitat, Ecology and Ekistics. Advances in Asian Human-Environmental Research*. Springer, Cham. https://doi.org/10.1007/978-3-030-49115-4_12.
- 2021: *Assessment of Food Security Using Geospatial Techniques in Rural India: A Study from Koch Bihar, West Bengal* (Alam A. & Rukhsana). In: Rukhsana, Alam A. (eds) *Agriculture, Food and Nutrition Security*. Springer, Cham. https://doi.org/10.1007/978-3-030-69333-6_8
- 2021: *An assessment of cyclone-induced vulnerability and change in land use and land cover (LULC) of G-Plot in Patharpratima C. D. Block of South 24 Parganas district, West Bengal* (with Paul R K, Baidya A and Alam A). *Indian Journal of Geography and Environment Management*, 17- 18, pp-1-13 (ISSN 0972-7388).
- 2021: *A review of resource management and self-reliance for sustainable development of India under COVID-19 scenario* (with Alam, A., Khan, A., Ghosal, N.). *Journal of Public Affairs*, 21(4), e2725.<https://doi.org/10.1002/pa.272512>.
- 2020: *Soil site suitability analysis using geo-statistical and visualization techniques for selected winter crops in Sagar Island, India* (with Mandal S & Choudhury B U). *Applied Geography*, Volume 122, September 2020, Pages 102249.
- 2020: *Neoliberal urban sustainability in Old Kolkata, India: Case studies of contested developments* (with Haldar A). *Reg Sci Policy Pract.* 2020;1–17. <https://doi.org/10.1111/rsp3.12325>.
- 2020: *Investigation of Urban Environment Using Tasseled Cap Transformation* (with Alam A & Ghosh A) In Singh et al, *Spatial Information Science for Natural Resource Management* (Book), IGI Global, (ISBN- 9781799850274), <https://doi.org/10.4018/978-1-7998-5027-4.ch005>.
- 2020: *Human intervention on river system: A control system—A case study in Ichamati River, India* (with Mondal, M.). *Environment, Development and Sustainability*, 22, 5245–5271. <https://doi.org/10.1007/s10668-019-00423-3>.
- 2020: *Habitat, Ecology and Ekistics: An Overview* (with Rukhsana, Haldar A, and Alam A), In Rukhsana, Haldar, Alam & Satpati (Edited), Springer International Publishing AG, Cham (ISBN- 978- 3-030-49114-7), https://doi.org/10.1007/978-3-030-49115-4_1.
- 2020: *Data article on soil site suitability analysis using geostatistical and visualization techniques for selected winter crops in Sagar island, India* (with Mandal, S. & Choudhury, B. U.). *Data in brief*, 31, 105930.
- 2019: *Estimation of Shortwave Surface Albedo (SSA) and Its Impact on Thermal Environment in Kolkata* (with Sadhu S). *Ind. J. of Landscape Systems and Ecological Studies* 42 (2) December - 2019, 132- 146.
- 2018: *Urban Geo-forms: Concept and Significance in Anthropogeomorphology* (with Haldar A), *Journal of Indian Geomorphology*, Volume 6. 2018. ISSN 2320-0731, Indian Institute of Geomorphologists (IGI).
- 2018: *Role of Kanyashree Project to Combat Gender Inequalities and Marginality in West Bengal*. (with M. Ghosh) in *Geographical Review of India*, Vol. 80, No. 3, pp 266-276, ISSN 0375-6386.
- 2018: *Optimum Cross Section Index (OCI): a New Approach for Identification of an Optimum Channel—a Case Study of the Ichamati River, India* (with M. Mondal and S. Ghosh), *Arabian Journal of Geosciences*, 11(12). Springer DOI:10.1007/s12517- 018-3667-3.

- 2018: *Climate change vulnerability to agrarian ecosystem of small Island: evidence from Sagar Island, India* (with Mandal, S., et al.). *Theor Appl Climatol* **132**, 451–464 (2018). <https://doi.org/10.1007/s00704-017-2098-5>.
- 2017: *Hydro-dynamic Character of Ichamati: Impact of Human Activities on Tidal river Management (TRM)*, (with M. Mondal), *Ind. Jour. of Power and River Valley Management* 67(3&4)50-62. II ISSN: 0019-5537
- 2016: *Character of Cross-Profiles with Respect to the Optimum Channel Cross- sections in the Middle Reach of the Ichamati River of West Bengal*, (with M. Mondal and S. Ghosh) *Transactions*, 38(2)201-14.
- 2015: *The Role of Fodder Cultivation on Livestock Rearing in WB*, (with A. Biswas), in *Geographical Review of India*, Vol. 77, No. 3, pp 271-277, ISSN 0375-6386.
- 2015: *Monsoon Variability, Crop Water Requirement, and Crop Planning for Kharif Rice in Sagar Island, India* (with S. Mandal and B. U. Choudhury), in *International Journal of Biometeorology*, Springer, (Online first) ISSN 0020-7128, DOI 10.1007/s00484-015-0995-9, 15p.
- 2014: *Morphodynamic Variables and Character of the Long Profile of the Ichamati River in North 24 Parganas District of West Bengal*, (with M. Mondal) in *Geographical Review of India*, Vol. 76, No. 4, pp 347-359, ISSN 0375-6386.
- 2012: *Morphodynamic Setting and Nature of Bank Erosion of the Ichhamati River in Swarnupnagar and Baduria Bocks, 24 Parganas (N), West Bengal*; (with M. Mondal) in *Indian Journal of Spatial Science*, Vol. 3.0, No. 2, pp. 32-38, EISSN 2249-4316 ISSN 2249-3921.
- 2012: *Climate Change Scenario and its Hydrological Implications in the Ganga Basin of India*; in *Geographical Review of India*, Vol. 74, No. 4, pp 371-382, ISSN 0375-6386.
- 2011: *Geomorphic Hazards in Urban Environment of Kolkata*; in *Indian Journal of Landscape Systems and Ecological Studies*, Vol. 34, No.2 (Special Volume on Ecological Problem in Geography), pp 543-552, ISSN 0971-4170.
- 2011: *Flood Hazards in the Lower Damodar Area: A Case Study in Khanakul- I C D Block of Hugli District, West Bengal*; (with S. Halder) in *Geographical Review of India*, Vol. 73, No. 4, pp 379-390, ISSN 0375-6386.
- 2009: *Employment Status in Rural West Bengal: A Case Study in Bongaon, Basirhat and Barasat Sub-divisions of North 24 Parganas, West Bengal*; (with R. Halder) in *Geographical Review of India, Kolkata*, Vol. 71, No. 2, pp 198-203, ISSN 0375-6386.

b) Books:

- 2020: *Habitat, Ecology and Ekistics: Case Studies of Human-Environment Interactions in India*, Rukhsana, Halder, Alam & Satpati, October, 2020, Springer International Publishing AG, Cham (ISBN- 978-3-030-49114-7), <https://doi.org/10.1007/978-3-030-49115-4>.
- 2015: *Public Transportation in Urban North Howrah: Some Behavioural Issues of Commuting*, in *Urban Development in Howrah- Socio-economic Perspectives*, (Eds.) Mahalaya Chatterjee and Anish Mukhopadhyay, Primus, New Delhi, pp. 176-186, ISBN 978-93-84082-39-0
- 2015: *Dams, Development and Environment: A Study of Damodar Valley Corporation Region*; (with S. Halder) in Ravi S. Singh (ed.) *Resource Use, Development and Environment Interfaces and Implications*, Y S Books International New Delhi, pp. 139-158, ISBN 93-83793-16-3

- 2014: *Population and Development in India: Some Points to Ponder*, in Landscape and Development Interfaces in Geographical Research, (Eds.) Sumana Bandyopadhyay and L N Satpati, pp. 117-124, Academic Publishers, Kolkata ISBN 978-93-83420-37-7
- 2013: *Curricula Development of Geography in India: Some Pertinent Issues of Contemporary Education System*; in N. C. Jana and L. Sivaramakrishnan (ed.) Resources and Development- Issues and Concerns, Progressive Publishers, pp 624- 633, ISBN 978-81-8064-252-4
- 2009: *Hydro-geography: Contemporary Issues and Future Agenda*; in Ravi S. Singh (ed.) Indian Geography in the 21st Century: The Young Geographers Agenda, Cambridge Scholars Publishing, Newcastle upon Tyne, UK, pp 166-187, ISBN(10) 1-4438-1365-6, ISBN (13) 978-1-4438-1365-5.

c) **Conference/ seminar volumes:**

- 2015: *Contemporary climate change: a brief review of the science in the context of the current world economy and polity*, in Sati, V. P. et al (eds.) Climate Change and Socio-ecological Transformation, Today and Tomorrow's Printers and Pub., New Delhi, pp. 101-105, ISBN 81-7019-518-3 (India) 1-55528-374-8 (USA)
- 2012: *Environment-Development Conflict in the Sundarban Region of West Bengal: Arguments for Certain Alternatives*; in S. Chatterjee (ed.) Community Awareness in Sundarban, Combat Physical & Social Hazard, acb Publications, Kolkata, pp. 18-24, ISBN 81-87500-59-X
- 2011: *Evaluation of the Strategies for Generation of Mass Awareness in India Against Global Warming*; in the proceedings of National Seminar on Global Warming and its Impact on Water Resources, Vol. 1, pp 111-118, Indian Association of Hydrologist, W. B. Regional Centre and Civil Engg. Dept., Jadavpur University.
- 2010: *Conflict of Deprivation and Development: A Case Study in the Jungle Mahal of West Bengal*; in E-proceedings of International Geographical Union (IGU) Commission Seminar, Cotton College, Guwahati

d) **Other publications:**

More than 35 articles have been published so far in non-referred journals and popular magazines, edited books, monographs, news papers, etc. I have written foreword of three books published by reputed organizations/ publishers. I have edited a book entitled 'Climate and Society- A Contemporary Perspective', published by the Dept. of Geography, CU in the year 2016.

12. Memberships of Learned Societies:

- Life Fellow, Geographical Society of India, Kolkata, and also the Assistant Secretary (Administration) since 2009
- Life Fellow, Indian National Cartographic Association (Kolkata Chapter)
- Life Member, Indian Science News Association, Kolkata
- Life Member, the Institute of Indian Geomorphologists, Allahabad and also the Executive Council Member (Joint Secretary, 2017-18)
- Life Member, the Himalaya Samiksha Parishad, Kolkata and also acted the Secretary and Vice President.

- Life Member, the Geographical Association of Mizoram, Aizawl
- Secretary (Acting), Indian Institute of Landscape Ecology and Ekistics
- Member, Indian Society for Remote Sensing, Kolkata
- Life Member, Indian Meteorological Society (Kolkata Chapter), and also its Secretary (2018-20)
- Ordinary Member, Asiatic Society, Kolkata
- Life Member, Bengal Provincial Depressed Classes League, Kolkata

13. Invited lectures delivered: More than 150 invited lectures delivered in regional, national and international seminars, conference, workshops and faculty development programmes organized by various colleges, universities and higher education institutions in India. I have chaired/ co-chaired of more than a 50 technical sessions of national/ international conferences.

14. Awards: National Scholarship, 1995; INSA Travel Grant 2012 for IGU Conference in Germany (Cologne).

15. Other notable activities:

- Member, Academic Advisory Committee of HRDC, NBU, Gauhati University, The University of Burdwan.
- Resource Person of FIP/ RC/STC: UGC-HRDC of Punjab University, University of Alahabad, NBU, NEHU, Tripura University (FDC), Utkal University, Karnataka Central University, PHSGU (Sagar University).
- Member, UGBoS in Geography of KNU, GBU, CU, JU, WBSU and SKBU.
- Member, PGBoS in Geography of Bhairab Ganguli College, Rashtraguru Surendranath College, Sarsuna College, Bijoy Krishna Girls' College, CU, UGB, MU and SKBU.
- I have organized a dozen of national/ international workshops, seminars and conferences as coordinator or an active member of the organizing committees.
- I have remained advisor to the Students' Geographical Association, Department of Geography, CU. I am also advisor to various associations of Geography teachers of different academic levels, and of research scholars.
- I have been a reviewer of the Geographical Review of India, Kolkata; International Journal of Spatial Hydrology; Arabian Journal of Geomorphology, Journal of Indian Geomorphology, and many other academic journals of repute.
- I have been an examiner of PG, M. Phil and Ph. D. dissertations/ theses of a number of central and state universities of India, including JNU, Guwahati University, Tripura University, The University of Burdwan, Vidyasagar University, Visva Bharati, Allahabad University, IEST, etc.
- I have acted as a member of different selection committees for appointment of teachers of colleges and universities.
- I have been a paper setter, moderator, examiner and advisor of various agencies/ boards/ councils and universities in India.

- Member of the Advisory Committee of the Advanced Research Centre in Human Geography, Lady Brabourne College, Kolkata
- Member, M. Phil Committee of IDSK, Kolkata.
- Member, Academic Advisory Committee, CUES, University of Calcutta
- Member of the Academic Council, and also PGBoS of Panskura Banamali College (Autonomous), Purba Medinipur.
- Chairman of the High Power Committee to evaluate manpower/ restructuring of NATMO, DST, Govt. of India, 2018-19.
- Member, West Bengal State Action Plan for Climate Change, 2021-2030.
- PhD Examiner of Utkal University, JNU, BHU, J&K University, NBU, Gauhati University, Manipur University, VB, BU and VU.
- Presently I am the Editor of the *Indian Journal of Landscape Systems and Ecological Studies* of Indian Institute of Landscape, Ecology and Ekistics (ILEE), Kolkata.



16 December, 2022