

CURRICULUM VITAE

Dr. SUMANTA DANDAPATH, M.Sc., NET (JRF), Ph.D.



Assistant Professor (Geography)
Shivaji University, Kolhapur, Maharashtra, INDIA

Field of Expertise

Oceanography, Geomorphology, Hydrology, Cartography, Remote Sensing, GIS, Climate Change

Personal Details

Address (Office): Department of Geography, Shivaji University, Kolhapur – 416004, Maharashtra, INDIA

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Professional Experience

Dec. 2016 – till date: Teaching & Research work as **Assistant Professor (Stage 2)**, Department of Geography, **Shivaji University, Kolhapur** (*Oceanography, Applied Climatology, Climate Change, Hydrology, Computer Applications*)

Dec. 2010 – Dec. 2016: Teaching & Research work as **Assistant Professor (Stage 1)**, Department of Geography, **Shivaji University, Kolhapur** (*Remote Sensing, Oceanography, Hydrology, Geomorphology, Computer Applications*)

Sept. 2009 – Dec., 2010: Research work as **Senior Research Fellow, CSIR – National Institute of Oceanography, Dona Paula, Goa** (*Marine Geology, Multibeam Data Analysis, Seafloor Mapping, GIS*)

Sept. 2007 – Sept., 2009: Research work as **Junior Research Fellow, CSIR – National Institute of Oceanography, Dona Paula, Goa** (*Acoustic Remote Sensing, Seafloor Mapping, Geological & Geophysical Oceanography*)

Academic Records

Academic Degrees

- 2015 – Ph.D. in Geography** awarded by Banaras Hindu University (BHU), Varanasi, Uttar Pradesh
Thesis: Morphological Studies of Seafloor using Multibeam Echo-sounding data & GIS
[Work carried out at CSIR-National Institute of Oceanography (NIO), Dona Paula, Goa]
[Received Best Thesis Award for the Year 2017 by CSIR-NIO, Dona Paula, Goa]
- 2007 – M.Sc. in Geography** with Spl. in Advanced Cartography & Remote Sensing awarded by Banaras Hindu University (BHU), Varanasi, Uttar Pradesh
- 2005 – B.Sc. (Hons.) in Geography** (Spl. Environmental Geography) at Haldia Govt. College, Haldia [affiliated to Vidyasagar University, Midnapore, West Bengal]

Professional Qualifying Examinations

- 2006, December – CSIR-UGC National Eligibility Test for Lectureship & Junior Research Fellowship (NET-Lectureship + JRF) in Earth, Atmospheric, Ocean and Planetary Sciences** awarded by Council of Scientific and Industrial Research (CSIR), Govt. of India

Diploma/ Training/ Refresher Courses

- 2016, July – ‘UGC Sponsored Special Summer School’ (3 weeks)** at UGC-HRDC, Ranchi University, Ranchi, Jharkhand [Received Highest Grade]
- 2016, February – ‘Orientation Programme’ (4 weeks)** at UGC-HRDC, University of Mysore, Mysore, Karnataka [Received Highest Grade]
- 2010, May – Attended Training Course (1 week)** on **‘Multibeam Echo-sounder (EM302 & EM1002) and Seafloor Information System’** organized by CSIR-National Institute of Oceanography, Dona Paula, Goa & Kongsberg Maritime AS, Norway
- 2008, May – Attended Certificate Course (2 weeks)** on **‘Fundamentals of Oceanography’** organized by CSIR-National Institute of Oceanography, Dona Paula, Goa
- 2008, March – Attended Certificate Course (1 month)** on **‘Introduction to GIS and its Applications’** organized by National Remote Sensing Center (NRSC), ISRO, Hyderabad, Telangana
- 2007, June – Completed Part time Diploma Course (6 months)** on **‘Computer Applications’** awarded by GBS Computers, New Delhi (Varanasi br.), Uttar Pradesh

Other Courses Short Term Course/ Workshop (less than 1 week)

- 2014, September – ‘Advances in Teaching-Learning Strategies and Professional Development’**, Department of Education, Shivaji University, Kolhapur
- 2014, August – ‘Outcome Based Modular Syllabus’**, IQAC, Shivaji University, Kolhapur
- 2013, December – ‘Moodle Course Management System’** Department of Computer Science, Shivaji University, Kolhapur
- 2012, October – ‘Advances in Teaching Strategies and Evaluation’**, Department of Education, Shivaji University, Kolhapur
- 2011, December – ‘Innovative Teaching Techniques and Professional Development of University Teachers’**, Department of Education, Shivaji University, Kolhapur

Teaching, Administration & Examination

Teaching Experience

Shivaji University, Kolhapur (Geography)
(December, 2010 – till date)

Courses Taught:

- ✓ Geo-hydrology and Oceanography (2012 onwards)
- ✓ Applied Climatology and Climate Change (2019 Onwards)
- ✓ Computer Applications in Geography (2011 Onwards)
- ✓ Field Studies & Project Work / Dissertation (2011 Onwards)
- ✓ Remote Sensing (2010-2018)
- ✓ Analysis of Socio-Economic Data (2013-2017)
- ✓ Surveying, Cartography and GPS (2012-13)
- ✓ Settlement Geography (2012)
- ✓ Landform Analysis & Surveying (2012)

Academic Administration

1. **Web Administrator**, Department of Geography, Shivaji University, Kolhapur, 2019 onwards.
2. **Chairman**, *M.A./M.Sc. Geography Curriculum Drafting and Revision Committee*, Shivaji University, Kolhapur, 2019 onwards.
3. **In-Charge, Departmental Library**, Department of Geography, Shivaji University, Kolhapur, 2018 onwards.
4. **In-Charge, Computer Laboratory**, Department of Geography, Shivaji University, Kolhapur, 2011 onwards.
5. **Facilitator, Online Learning through Moodle & SWAYAM**, for students of Department of Geography, Shivaji University, Kolhapur, 2018 onwards.
6. **Student Counselor**, Department of Geography, Shivaji University, Kolhapur, (2013 onwards).
7. **Student Mentor**, Department of Geography, Shivaji University, Kolhapur, (2011 onwards).
8. **Co-ordinator for CBCS Courses**, Department of Geography, Shivaji University, Kolhapur, (2014-2019).
9. **Co-ordinator, Research Proposal(s) Drafting** on behalf of the Department of Geography, Shivaji University, Kolhapur. (2011-2018).
10. **Member, DST-FIST & UGC-SAP**, Proposal Drafting, Presentation & Implementation Committee (2012-17) at Department of Geography, Shivaji University, Kolhapur.
11. In-Charge, Geographical Excursion & Study Tour of MA/M.Sc. (Geography), Shivaji University, Kolhapur, December 2011 & February 2018.
12. Life Member – Indian Science Congress Association, Kolkata (2012 Onwards).

13. **Co-ordinator, Geo-Fest 2020** (Annual Sports, Academic & Cultural Fest), Organized by Department of Geography, Shivaji University, Kolhapur, 6th – 8th January 2020.
14. Facilitator, Mega Job Fair 2018, Organized by Shivaji University, Kolhapur, 19th May 2018.
15. **Organizing Secretary**, UGC Sponsored National Conference on *Advances of Geographical Research in India - 2017 (AGRI-2017)*, Kohapur, 30th - 31st January 2017.
16. **Members of Organizing Committee(s)**, Various National/International Conference /Workshop/Training/Other Events organized by Department of Geography, Shivaji University, Kolhapur.
 - National Conference on Geo-Environmental Issues and Sustainable Development, 20-21st Sept. 2019.*
 - Research Methodology Course for M.Phil/Ph.D./PDF Scholars in Social Sciences, 19-28th Dec. 2018.*
 - International Workshop on Geoinformatics for Disaster Management, 4th Aug, 2018.*
 - Short Term Course on Introduction to Q-GIS Software, 16-21st July 2018.*
 - National Seminar on Resource Planning and Development: Indian Scenario, 20-21st Feb. 2015.*
 - National Workshop on Advance Tools and Techniques in Geoinformatics, 5-7th Mar. 2014.*
 - National Seminar on Resource Appraisal & Sustainable Regional Development, 12-13th Mar. 2013.*
 - Workshop on Research Tools & Techniques in Geography, 15th Dec. 2012.*
 - Workshop on Application of Quantitative Techniques in Geography, 15th Feb. 2011.*

Examination Duties

1. **Examiner, Paper Setter & Exam. Supervisor** for *M.A./M.Sc. (Geography) Theory & Practical Examinations*, Department of Geography, Shivaji University, Kolhapur, 2011 onwards.
2. **Examiner & Paper Setter** for *M.Sc. (Physics) Examinations*, Department of Physics, Shivaji University, Kolhapur, 2014-18.
3. **Examiner & Paper Setter** for *PG Diploma (Geoinformatics) Theory & Practical Examinations*, Department of Geography, Shivaji University, Kolhapur, 2013.
4. **Examiner (External)** for *M.A./M.Sc. (Geography) Practical Examinations* at SGM College, Karad. 16th – 19th April 2016, 6th – 9th May 2019, 26th -27th November 2019.
5. **Examiner (External)** for *M.A./M.Sc. (Geography) Practical Examinations* at PDVP College, Tasgaon, 14th – 15th May, 2018, 5th – 8th December 2018.
6. **Examiner (External)** for *M.A./M.Sc. (Geography) Practical Examinations* at Ch. Shivaji College, Satara, 11th – 14th May 2017.
7. **External Senior Supervisor** for *M.Sc. (Zoology) Examinations* at Department of Zoology, Shivaji University, Kolhapur, 11th -21st Nov. 2019.
8. **External Senior Supervisor** for *M.Sc. (Microbiology) Examinations* at Department of Microbiology, Shivaji University, Kolhapur. 8th – 15th April 2017 & 13th April – 2nd May 2019.
9. **External Senior Supervisor** for *M.Sc. (Math. & Others) Examinations* at Centre for Distance Education, Shivaji University, Kolhapur. 20th – 30th Nov. 2017.
10. **Internal Senior Supervisor** for *M.C.A./M.A./M.Sc./M.Com. Examinations* at University Exam. Centre (Humanities Building), Shivaji University, Kolhapur, 12th – 19th October 2011.

Resource Person

1. Resource Person, **Workshop for UGC/CSIR-NET/SET Exam.** Organized by Department of Geography, Shivaji University, Kolhapur, 2011 onwards.

2. Resource Person, **Remedial Lectures for Slow Learners**, Organized by Department of Geography, Shivaji University, Kolhapur, 2011 onwards.
3. Resource Person, **Workshop on Revised Syllabus of M.A./M.Sc. Geography Part-II**, Organized by Department of Geography, Shivaji University, Kolhapur, 30th August 2019.
4. Resource Person, **Workshop on Revised Syllabus of M.A./M.Sc. Part-I Geography**, Organized by Department of Geography, Shivaji University, Kolhapur, 26th September 2018.
5. Resource Person, **Short Term Course on 'Introduction to Q-GIS Software'**, Organized by Department of Geography, Shivaji University, Kolhapur, 16-21st July 2018.
6. Resource Person, **Pre Ph.D. and M.Phil. Course Work**, Department of Geography, Shivaji University, Kolhapur, 27-28th April 2018.

Research & Publication

Research Article (Journals)

SCI Impact Factor: 10.605

Citations: 75+

1. **Dandapath, S.**, Menezes, A., Chakraborty, B., Kurian, J., Raju, K.N.P. (2018). *Seafloor geomorphology and processes on the western continental margin of India based on multibeam acoustic backscatter data analysis. Marine Geodesy, 41 (2), 177-200.* (Taylor & Francis) DOI: <http://dx.doi.org/10.1080/01490419.2017.1367340>. *[Impact Factor: 0.962]*

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2. Chakraborty, B., Menezes, A., **Dandapath, S.**, Fernandes, W.A., Karisiddaiah, S.M., Haris, K., Gokul, G.S. (2015): *Application of Hybrid Techniques (Self-Organizing Map and Fuzzy Algorithm) Using Backscatter Data for Segmentation and Fine-Scale Roughness Characterization of Seepage-Related Seafloor Along the Western Continental Margin of India. IEEE Journal of Oceanic Engineering, 40 (1), 3-14.* (IEEE) DOI: <http://dx.doi.org/10.1109/JOE.2013.2294279>. *[Impact Factor: 2.567]*

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3. **Dandapath, S.**, Chakraborty, B., Maslov, N., Karisiddaiah, S.M., Ghosh, D., Fernandes, W., Menezes, A. (2012): *Characterization of seafloor pockmark seepage of hydrocarbons employing fractal: A case study from the Western Continental Margin of India. Marine and Petroleum Geology, 29 (1), 115-128.* (Elsevier) DOI: <https://doi.org/10.1016/j.marpetgeo.2011.09.008>. *[Impact Factor: 3.538]*

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4. **Dandapath, S.**, Chakraborty, B., Karisiddaiah, S.M., Menezes, A.A.A., Ranade, G., Fernandes, W.A., Naik, D.K., PrudhviRaju, K.N. (2010): *Morphology of pockmarks along the western continental margin of India: Employing multibeam bathymetry and backscatter data. Marine and Petroleum Geology, 27 (10), 2107-2117.* (Elsevier) DOI: <https://doi.org/10.1016/j.marpetgeo.2010.09.005>.

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Reviewer in Journals

Nonlinear Processes in Geophysics (NPG)

Indian Journal of Geo-marine Sciences (IJMS)

Research Paper Presentation

National

1. 'Progress in Research on Marine Hydrocarbon Resources for Economic Development and Associated Environmental Consequences'. **National Seminar on Society, Economy and Development: Issues and Challenges**, Organized by: Haldia Govt. College, Haldia, March 19-20, 2013. *[Presenting Author]*
2. 'Intra-City Traffic Flow Pattern in Kolhapur, Maharashtra'. **National Seminar on Resource Appraisal and Sustainable Regional Development**, Organised by: Shivaji University, Kolhapur, March 12-13, 2013. *[Co-Presenting Author]*
3. 'Traffic Flow and Transportation Linkages between Kolhapur City and Neighboring Areas'. **National Seminar on Resource Appraisal and Sustainable Regional Development**, Organised by: Shivaji University, Kolhapur, March 12-13, 2013. *[Co-Presenting Author]*
4. 'Geographical Analysis of Bauxite Mines in Kolhapur District'. **National Seminar on Resource Appraisal and Sustainable Regional Development**, Organised by: Shivaji University, Kolhapur, March 12-13, 2013. *[Co-Presenting Author]*
5. 'An Appraisal of Seafloor Hydrocarbon Seepage and Associated Geo-hazards using Geo-spatial Technology & Fractal Statistics'. Sub-theme: Natural Hazards, **National Conference on Natural Hazards, Food Security and Sustainable Development**, Organized by: Shivaji University Bhoogol Shikshak Sangh, Kolhapur, at Solapur, February 3-5, 2012. *[Presenting Author]*
6. 'Detection of Shallow Gas Using Multibeam Backscatter Image – An Application of Acoustic Remote Sensing'. Sub-theme: Role of Geospatial Technology in Geo-sciences and Mineral Prospecting, ISRS Annual Convention and **National Symposium on GIS and Remote Sensing in Infrastructure Development (GRID 2010)**, Organized by: Indian Society of Remote Sensing (Pune Chapter) at Lonavala, December 1-3, 2010. *[Presenting Author]*

International

1. 'Large Scale Mapping of Small-scale Landforms along the Indian continental margin'. Section: Earth System Sciences, **100th Indian Science Congress 2013 (ISC 2013)**, Organized by: Indian Science Congress Association, Kolkata, January 3-7, 2013. *[Presenting Author]*
2. 'Detection and mapping of gas escape features (pockmarks) employing multibeam echo-sounder data and GIS – A case study from the central western continental margin of India'. Section: Earth System Sciences, **98th Indian Science Congress 2011 (ISC 2011)**, Organized by: Indian Science Congress Association at Chennai, January 3-7, 2011. *[Presenting Author]*

Research Guidance

Dissertation for M.A./M.Sc. in Geography

1. 'Geographical Analysis of Cropping Pattern and Crop Production in Kolhapur District' by Priyanka B. Ranaware, Rutuja B. Patil, and Manisha A. Pujari, Department of Geography, Shivaji University, Kolhapur, 55pp. **(2019)**
2. 'Geographical Analysis of Growth and Development of Census Towns in Kolhapur, Sangli and Satara District' by Rahul D. Ghatage, and Dipak M. Godase, Department of Geography, Shivaji University, Kolhapur, 56pp. **(2018)**
3. 'Characteristics of Weather and Climate in Indian Cities' by Swapnali K. Pawar, Snehal V. Patil, and Rohini R. Phalke, Department of Geography, Shivaji University, Kolhapur, 38pp. **(2017)**
4. 'Study of Industrial Agglomeration in Shirol MIDC, Kolhapur District, Maharashtra' by Trupti J. Nikam, Samadhan P. Parakhe, and Poonam R. Patil, Department of Geography, Shivaji University, Kolhapur, 77pp. **(2016)**

5. 'Geographical Analysis of Infrastructure Facility in Kolhapur City' by Arati R. Pawar, Suraj G. Pawar and Sudhir K. Powar, Department of Geography, Shivaji University, Kolhapur, 67pp. **(2015)**
6. 'Geographical Analysis of Bauxite Mines in Kolhapur District, Maharashtra' by Baburao B. Ghurake, Vinayak S. Gurav, and Nilesh B. Jadav, Department of Geography, Shivaji University, Kolhapur, 71pp. **(2013)**
7. 'Impact of Bauxite Mining in Kolhapur District' by Sukhadev V. Kolekar, Department of Geography, Shivaji University, Kolhapur, 67pp. **(2013)**
8. 'Morphometric Analysis and Terrain Evaluation (part of Krishna River Basin)', by Usha R. Mugade, Nadeem A. Mulla, and Kiran H. Raut, Department of Geography, Shivaji University, Kolhapur, 60pp. **(2012)**
9. 'Current Status of Traffic Flow and Road Network System in Kolhapur City', by Varsha P. Patil, and Sachin K. Rajput, Department of Geography, Shivaji University, Kolhapur, 63pp. **(2012)**

Dissertation for P.G. Diploma in Geoinformatics

1. 'Change Detection Analysis of Land Use/Land Cover in Radhanagari Wildlife Sanctuary (Maharashtra) using Remote Sensing and GIS' by P.P. Thoravat, V.S. Patil, S.N. Chougule, S.V. Deshmukh, and M.A. Shinde, Department of Geography, Shivaji University, Kolhapur, 53pp. **(2013)**

Unpublished Report

1. Dandapath, S. Dissertation/Project report on '**Morphometric Analysis and Terrain Evaluation of Belan River Basin**', May, 2007. (Submitted to BHU, Varanasi, Uttar Pradesh)

Field Investigation

1. Participated as a Field Researcher on board 'RV Sindhu Sankalp' for calibration and multibeam data collection using EM 302 & EM1002 in **Arabian Sea** (Offshore Goa, Karnataka & Maharashtra), 21st – 26th October 2010.

Awards / Honors / Fellowship

- 2020 – Geeta Mukhopadhyay Best PhD Thesis Award 2017** by CSIR - National Institute of Oceanography (CSIR-NIO), Dona Paula, Goa [for the best doctoral research work carried out in CSIR-NIO in the year 2017]
- 2011 – Certificate of Excellence** by Elsevier B. V., Netherlands [for published article featured in ScienceDirect Top 25 hottest articles list (8th rank) in Marine & Petroleum Geology, Earth & Planetary Sciences, Oct.-Dec., 2010]
- 2009 – Senior Research Fellowship** by Council of Scientific and Industrial Research (CSIR), Govt. of India
- 2007 – Junior Research Fellowship** by Council of Scientific and Industrial Research (CSIR), Govt. of India

Other Academic/ Research Profiles

Google Scholar

Scopus

ResearcherID

ORCID

Mendeley

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