

Resume

Deepali Gadkari

Professional Experience:

Assistant Professor: Department of Geography, University of Mumbai, Mumbai.

Date: From March 10, 2014 till date

Subjects taught: Geomorphology (Fluvial, Coastal, Tropical and Theoretical and Applied), Remote Sensing and GIS, Research Methodology

Research Associate: Science and Technology Park and Department of Geography, University of Pune, Pune.

Date: From February 15, 2013 to November 30, 2013.

Project: Solutions for Environmental Contrasts in Coastal Areas (SECOA)

Visiting Scientist Institute of Seismological Research, Gandhinagar, Gujarat.

Date: From October 1, 2012 to January 31, 2013.

Project: Seismic Vulnerability Assessment of Buildings in the Jamnagar City, Gujarat.

Assistant Professor of Geomatics Faculty of Geomatics and Space Applications, CEPT University, Ahmedabad.

Date: From August 26, 2010 to September 30, 2012

Subjects taught: Fundamentals of GIS, Advanced GIS, Cartography, Aerial Photogrammetry, Digital Image Processing and Cartography

Number of Projects guided: 1

Assistant Professor of Geoinformatics Department of Geography, University of Pune

Date: From November 10, 2008 to August 23, 2010.

Subjects taught: Fundamentals of Remote Sensing, Digital Image Processing.

Number of Projects guided: 4

Research Associate Department of Atmos. & Space Sciences; University of Pune, Pune.
(In an ISRO sponsored project)

Theme: **A study of Geomorphic characteristics and Tectonic Elements in Select Seismically regions of India with Remote Sensing Techniques.**

Date: August, 16, 2007 – November 9, 2008.

Seismic, Remote Sensing, geological and geomorphic data processing using ERDAS 8.7 and ESRI -9, Origin, Excel. Application of long-term earthquake precursors, quantitative geomorphic methods and image analysis for landscape changes. Analysis of seismic patterns in NE India, Muzaffarabad area, Bhuj area and Sumatra area.

Junior Research Fellow Department of Atmos. & Space Sciences, University of Pune, Pune.
(In an ISRO sponsored project)

Theme: **Modelling Spatio-Temporal Changes in Landscape in Seismically Active areas of North-Eastern India with Remote Sensing Techniques.**

From July, 2004 – June 15, 2007

Seismic, Remote Sensing, geological and geomorphic data processing using ERDAS 8.7 and ESRI -9, Origin, Excel. Application of long-term earthquake precursors,

quantitative geomorphic methods and image analysis for landscape changes. Analysis of seismic patterns in NE India, Muzaffarabad area, Bhuj area and Sumatra area.

Subject: Remote Sensing
Lecturer (Visiting)
Subject taught: Remote Sensing and Aerial Photogrammetry
Year – 2004-2005, 2006-2007

Department Of Environmental Science
University of Pune, Pune.

Lecturer
Department of Geography
S.N.D.T. Arts and Commerce College,
Karve Road, Pune

Subject taught: Geography
From July, 1998 to July, 2004.

Educational Qualification:

University of Pune, Pune

Degree: **Ph. D.**

Subject: **Remote Sensing, Seismology and Geomorphology**

Date: 13.04.2011

Topic of Research: **‘Identification and Study of the imprints of Seismic Activity in Landforms with Remote Sensing Techniques’.**

Tools: **ERDAS Imagine 9.1, Arc GIS 9.2, Origin.**

C-DAC, Pune, Pune

Degree: **Diploma in Geoinformatics**

Major: **Remote Sensing and GIS**

Dates: 2003

Class/Grade: 69%, ‘B’

A Project on Image Classification

University of Pune, Pune

Degree: **M. Phil.**

Major: **Geomorphology (Coastal Geomorphology) and Remote Sensing**

Dates: 1995-2000

Class/Grade: ‘A’

Dissertation: ‘Estimation of Suspended Sediments in Near-Shore Zone (Diveagar Bay, Maharashtra, India), with Satellite Remote Sensing Techniques’.

Indian Institute of Remote Sensing, Dehradun, Uttaranchal, India.

Degree: **Certificate course in Aerial Photogrammetry and Remote Sensing**

Major: **Aerial Photogrammetry and Remote Sensing**

Dates: April, 2000 to June, 2000

Class/Grade: ‘Distinction’

University of Pune, Pune

Degree: **M.A.**

Major: **Geography (Geomorphology),**

Dates: 1993-1995

Class/Grade: 68%, ‘First Class’

State Eligibility Test

University Grants Commission,
India

Subject: Physical Geography

Eligible to teach at graduate and post graduate levels.

Other Information

- Over 5 years research experience in Geography, Remote Sensing, GIS and Seismology.
- 14 years teaching experience at graduate and post-graduate levels.
- Orientation Course: Human Resource Development Center, Jawaharlal Nehru University, New Delhi. – from November 16, 2015 to December 12, 2015.
- Refresher Course: Human Resource Development Center, University of Mumbai, Mumbai. – from June 1, 2018 to June 21, 2018.

Lectures delivered at/ resource person at:

At International level:

- A research paper presented in the International Conference being organized by the Royal Geographical Society at London in August, 2016. Title of the research paper 'Temporal variations in 'b'- value for Select Major Seismic Events'.**
- Special Training course on 'Applications of GIS' at Faculty of Geomatics, Computer Science and Mathematics, Stuttgart University, Germany. (Topics: Multicriteria Analysis, Watershed Management, Network Analysis and Geoprocessing Tools, Date: October 18th to 21th, 2011).**
- Training Programme for Faculty members of Kelaniya University, Colombo, Sri Lanka, organized of Department of Communication Studies, University of Pune. (Topic: Presentation skills and Applications of GIS) [24th September, 2009]**

At National Level:

- Short Term Training Programme on 'Role of Information Technology in Infrastructure Development', sponsored by CEPT University, Ahmedabad. (Topic: Geomatics and Earthquake Studies; Date: 27.05.2011)**
- Short Term Training Programme on 'Landuse and Environmental Impact Assessment', sponsored by Government of Gujarat. (Topics: 1.Digital Image Classification and Landuse, 2. Change Detection and Landuse, 3. Weighted overlay Analysis for Environmental Impact Assessment with Leopold Matrix.)**

- vi) **Department of Environmental Science, University of Pune as Visiting Faculty;** Subject taught: Remote Sensing and Aerial Photogrammetry (M.Sc.); (Years – 2004-2005, 2006-2007, 2007-2008).
- vii) **Resource person for the Refresher Course organized by Department of Geography, University of Pune (Subject: Aerial Photogrammetry, 2000)**
- viii) **Script – writing and research for the documentary on ‘Geography of Maharashtra’ for Central Institute of Indian Languages, Ministry of Human Resource development, Government of India, Mysore.**

Industrial Training:

Provided training to the staff members of the **‘Swasti Agro and Bioproducts Pvt. Ltd., Pune.** The training imparted knowledge and technique of using GPS data to create geospatial database of agricultural fields on May 9-10, 2016.

Research published:

- Quantification of Intensity of Landscape Changes using Remote Sensing and GIS with Special Reference to the Bhuj Earthquake (26th January, 2001, M= 7.9): Joshi, K. and Gadkari D.; *Journal of the International Society for the Prevention and Mitigation of Natural Hazards*, ISSN 0921-030X, Nat Hazards, DOI 10.1007/s11069-016-2359-0
- Variations in the Morphology of Potholes along Kukadi Channel at Nighoj-Maharashtra. (2011): Unde, M., Jawre, D.R., and Gadkari, D.; Vol - I , ISSUE - VII [Aug, 2011] : Geography.
- Some Environmental Changes and Their Possible Use in Earthquake Prediction Research. (2007): in ‘Environmental Changes and Geomorphic Hazards’, Singh S., Starkel L. and Syiemlieh H. J. (eds.), Bookwell, New Delhi.
- Identification of Precursory Characteristics of Seismic Gap for Bhuj (7.9 M 2001), Sumatra (9.2 M, 2004) and Muzaffarabad (7.7 M, 2005) Earthquakes’: Gadkari, D., Sukhtankar, R. K., Jog, S. R., and Guha S.K.; ***Transactions***, (pub: Institute of Indian Geographers), Vol.29, No. 1, 2007, pp 21-31.
- Fossil Littoral Deposits of Beach and Dune origin at Nandgaon, Coastal Maharashtra. (1998): Karlekar S.N. and Gadkari, D.; *Indian Journal of Geomorphology*, Vol. 3No.2 (July-December) 1998, pp 173-190.

- **Research Guided (in reverse chronological order)**
- **Number of students registered for Ph.D. degree: 01 (Registered in August 2018)**
 - i. **Application of Leopold Matrix weights in Environmental Impact Assessment of Dantiwada Dam with GIS techniques (2011)**
 - ii. **Identification of Salinity Affected Areas In Karha River Basin Using Remote Sensing Techniques. (2010)**
 - iii. **Landscape Change Detection using Remote Sensing Technique with Special Reference to the Bhuj Earthquake (26th January, 2001, M=7.9). (2010)**
 - iv. **Property Tax Management Using GIS Technology for Alandi Nagarparishad, Alandi. (2009)**
 - v. **A Study of Distribution of Forts in Maharashtra on the background of Geographical Factors with GIS tools. (2009)**
- **News paper articles in the Maharashtra Times – संकट कोसळण्यापूर्वीच काळजी हवी (भाग १ व २) – May 22, 2015.**
- **Script – writing and research for the documentary on Geography of Maharashtra (for Central Institute of Indian Languages, Ministry of Human Resource development, Government of India, Mysore.)**

Other Academic Contributions:

Workshop/ Seminars organized:

- **organized a Lecture-demonstration series on ‘Surveying with Total Station’ during February 6– 7, 2020 (2 days).**
- **organized a Workshop (March 3-7, 2020 – 5 days) on ‘**Geoinformatics for Earth Sciences and Natural Resource Management**’.**
- **Coordinated the Workshop on ‘GIS Programming and Statistical Data Analysis with Python’, organized by the Western Regional Centre of the Indian Council of Social Science Research, J.P. Naik Bhavan, Vidyanagari, Mumbai; from February 20th-24th, 2018.**
- **Acted as the External Examiner for the viva voce for M.A./M.Sc. Geoinformatics – Part II students of the Department of Geography, University of Pune; on May 10th -11th, 2017.**

Lectures delivered:

- Was invited as a resource person for delivering lectures on ‘**GIS for Environmental Monitoring**’ (4 sessions) at The Environmental Science Department of K.J. Somaiya College, Vidya Vihar, Mumbai.
- Was invited as a resource person for delivering lectures on ‘**Ecological Footprint and We**’ on the occasion of World Philosophy Day organized by the Department of Philosophy, University of Mumbai on December 5, 2018)
- Delivered a lecture on ‘**Preparing for Geomorphology – Paper II**’ At NET-SET workshop organized by the Department of Geography, University of Mumbai, Santacruz (E), Mumbai.
- Was invited as a resource person for delivering lectures on ‘**GIS and Agriculture**’ at the seminar on ‘Effects of Climate Change on Agriculture’ organized by the Dadasaheb Bidkar Arts, Science and Commerce College, Peth Taluka, Nasik; December 28-29, 2018.
- ‘Geographical Information and Leadership’, at Chanakya International Institute of Leadership Studies, University of Mumbai, Mumbai; on September 17, 2017.
- ‘Remote Sensing and GIS’ at the Bhimrao T. Pradhan College of Arts, Science and Commerce, Shahapur, Dist. Thane – on March 2, 2017.
- ‘GIS and Geographical Research’, at the Department of Geography, Ahmednagar College, Ahmednagar - on May 31, 2016.
- ‘GIS- Concept and Applications’ at the Department of Geography, Moolji Jaitha College, Jalgaon – on March 12, 2016.
- ‘Geoinformatics’ at the Advance Certificate Course in Geology at the Centre for Extra-Mural Studies, University of Mumbai. – October, 2015 to January, 2016.
- ‘Digital Image Processing’ at the Department of Geography, S.P. College, Pune. - October 28, 2015.
- **Contributed to the syllabus for the Advance Certificate Course in Geology at the Centre for Extra-Mural Studies, University of Mumbai. – August, 2015.**

Conferences and Workshops attended/papers presented:

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- completed an online 6 weeks course on **‘Disaster Preparedness’ offered by the Pittsburgh University on Coursera. (25.01.2020)**
- ‘Certification Programme on Data Analysis using SPSS 25.0’ organized by L.S. Raheja College of Arts and Commerce, Santacruz (W), Mumbai – January 21st-22nd, 2018.
- 39th Annual Meet and Conference of Institute of Indian Geographers (IIG) on ‘Population, Environment and Sustainable Development’ at the Department of Applied Geography, School of Regional Studies and Earth Sciences, Ravenshaw University, Cuttack – December 26-28, 2017.
- National Conference on ‘Emerging Dimensions in Geographical Research for Sustainable Development’ at the Department of Geography, University of Mumbai, Mumbai – February 23, 2017.
- ‘Geodynamic processes and evolution of geophysical fields, tectonics and climate’ organized by the Centre of Earth Sciences, Indian Institute of Science, Bengaluru – September 19th – 23rd, 2016.
- RGS-IBG Annual International Conference at the Royal Geographical Society (with the Institute of British Geographers) in London from August 30 to September 2, 2016.
- National Seminar on ‘Trajectories and Prospects in Geography’ at the Department of Geography, University of Mumbai, Mumbai – March 30-31, 2016 (2 papers presented).
- 37th IIG Meet and International Conference on ‘Land Resource Policies, Agriculture and Expanding Urban-Industrial Spaces’ held at Department of Geography, University of Kurukshetra from February 11-13, 2016. (2 papers and chaired a session)
- Participated in Workshop on ‘API for College Teachers’, jointly organized by the University of Mumbai and IQAC of Rizvi College of Arts, Science and Commerce, DTSS College of Commerce and Science, J.M. Patel College of Commerce and Narsee Monjee College of Commerce and Economics, held at the Rizvi College of Arts, Science and Commerce, Bandra (West), Mumbai. (August 29, 2015).
- Presented two papers in the 36th Indian Geographers’ Meet and International Seminar on ‘Environmental Changes and Challenges: Local, Regional and Global Perspectives’ organized by the Department of Geography, Gauhati University, Assam.
- Participated in the 102th Indian Science Congress held at University of Mumbai, Mumbai as a member of Central Secretariat and Food and Hospitality Committees (January 3-7, 2015).

- Presented a paper in the 102th Indian Science Congress held at University of Mumbai, Mumbai (January 3-7, 2015).
- State-level Seminar on ‘Surveying: Recent Techniques and Applications’, at Prof. Ramkrishna More Arts, Commerce and Science College, Akurdi, Pune (Decemembr 20-21, 2014)
- Workshop on ‘Finland Education Model, Creativity and ICT in Education’, held at Sir Parshurambhau College, Pune. (December 19-20, 2014).
- Workshop on BHUVAN (ISRO’s Geoportal), held at CEPT University, Ahmedabad (March 23, 2012)
- Thirty Third Annual Conference and International Seminar of Institute of Indian Geographers, organized by Department of Geography and Disaster Management, Tripura University, Agartala, Tripura. (8th – 11th February, 2012)
- National Seminar on Applications of GIS and RS: organized by Department of Geography, University of Pune, Pune.
- Thirtieth Annual Conference of Institute of Indian Geographers, organized by Department of Geography, University of Pune, Pune (20th – 22nd February, 2009)
- Indo-Polish Seminar on ‘Environmental Changes and Geomorphic Hazards’ organized by North-Eastern Hill University, Shillong (20th – 22nd November, 2006, a paper presented).
- Institute of Indian Geographers’ 27th Convention and National Seminar, organized by Department of Geography, University of Jammu, Jammu (23rd to 25th February, 2006, Presented a paper).
- Workshop on Space Technology Applications at JNTU, Hyderabad, organized by Indian Society of Remote Sensing, Hyderabad Chapter. ERDAS India Pvt. Ltd., Hyderabad, Salim Ali Center for Ornithology and Natural History, MOE&F and Center for Spatial Information Technology, J.N.T. University, Hyderabad (18th & 19th May, 2005)
- NDC-USER Interaction Meet at NRSC, Hyderabad (12-13th January, 2004)

Projects sanctioned:

- A minor research project (Rs. 50,000/) is sanctioned to Dr. Deepali Gadkari by the University of Mumbai for research on mangroves in Malad, Marve and Thane creeks.

Other contributions:

- coordinated the drive to collect funds and other material for the Kerala Flood victims from the staff members, students, non-teaching staff and the Ph.D. scholars of the Department of Geography, University of Mumbai. (August, 2018).
- appointed by the University of Mumbai as a subject expert on the Selection Committee to recommend suitable candidate for the post of Assistant Professor in Environmental Studies in Clara's College of Commerce, Versova, Mumbai, (September 28, 2018).
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Personal Information

Permanent Address: 47/1, Taware Colony, Near 'Surabhi Hall', off Pune-Satara Road, Pune, Maharashtra, India – 411009.

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E-mail: *deepaligadkari@gmail.com*

Languages: English, Hindi, Marathi.

Birth date: October 4, 1972.
