

# CURRICULUM VITAE

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## Dr. Pranaya Diwate

Assistant Professor

Centre for Climate Change and Water Research

Suresh Gyan Vihar University, Jaipur

Email- [pranayadiwate7@gmail.com](mailto:pranayadiwate7@gmail.com)



### **PERSONAL INFORMATION**

<b>Name</b>	Pranaya Diwate
<b>Date of Birth</b>	01-05-1991
<b>Gender</b>	Male
<b>Marital Status</b>	Married
<b>Spoken language</b>	English, Hindi, Marathi
<b>Address</b>	Suresh Gyan Vihar University, Jaipur (India)
<b>Mobile No</b>	+919960570546

### **PRESENT POSITION**

**ASSISTANT PROFESSOR** (From May 2019-Present)

Centre for Climate Change and Water Research, Suresh Gyan Vihar University, Jaipur

**MANAGING EDITOR**

International Journal of Suresh Gyan Vihar University of Climate Change and Water

### **ACADEMIC QUALIFICATION**

**PhD in Geology (Awarded 2020)**

**Thesis Topic**- "Holocene Palaeoclimate Record From Renuka Lake, Himachal Pradesh, India" from **Wadia Institute of Himalayan Geology, Dehradun** and **University of Jammu, Jammu**

**Thesis Supervisor**

1. Dr. Narendra Kumar Meena

Scientist, Wadia Institute of Himalayan Geology, Dehradun

2. Prof. Sundeep Pandita

Professor, Department of Geology, Jammu University

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## M.Sc in Geology (2011-13)

Department of Geology

Institute of Science, Aurangabad, Maharashtra (India)

**Division-Distinction (*Gold Medalist*)**

## B.Sc with Geology, Computer Science and Petrochemical Science (2008-11)

Sipna College, Chikhaldara

(Affiliated to Amaravati University), Maharashtra, India

Division/Class: 2<sup>nd</sup>

## 10+2 with Physics, Chemistry, Mathematics, English and Hindi (2006-08)

Maharashtra State Board

Division/Class: 1<sup>st</sup>

## 10<sup>th</sup> standard with English, Hindi, Marathi Science, Social Science (2006)

Maharashtra State Board

Division/Class: 1<sup>st</sup>

## AWARDS/FELLOWSHIPS

**2013** Gold Medallist during Post Graduation from BAM University, Aurangabad

**2014-2016** Junior Research Fellow (INSPIRE Fellowship)

**2016-2019** Senior Research Fellow (INSPIRE Fellowship)

**2022** Research Award by SGVU

## TECHING EXPERIENCE

Sr. No	Name of the University/Institute	Period	Course	Papers
1.	Government Institute of Science, Aurangabad	July 2013- March 2014	M.Sc	1.Sediemenatry Petrology 2.Igneous Petrology
2	Centre for Climate Change and Water Research, Suresh Gyan Vihar University, Jaipur	May 2019- Present	1.B.Sc 2.M.Sc 3.M.Tech 4.PhD	1. Earth System Science 2. Petrology and economic Geology 3.Geoscience and Image interpretation 4. Geoscience and Advance remote sensing lab 5.Geoscience & Image interpretation Lab 6.Geoscience,Image interpretation

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				& Advanced Remote Sensing Lab 7.Field Geology 8. Petrology Lab. 10.Proficiency in co-curricular activities 11. PhD course work (Software's used in Research) 12.Geoinformatics in Geohazards13. Seismology14.Statistics for Geoinformatics ,15.Geoinformatics in Geohazards 16.Geochemistry and Sedimentology 17. Statistics
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### TECHNICAL EXPERIENCE

During the PhD study I, have analysed numbers of the sample for various analysis viz. Grain size analysis, Clay mineralogy, Diatoms, Total organic carbon, Environmental magnetism, Geochemistry. I have worked on **Mastersizer-2000** (Particle size analyser), **X-Ray Diffractometer** (Clay mineralogy), **SSM-5000A** (TOC analyser), **MS2B** (Magnetic susceptibility meter), **MAT 253+** (stable isotope analysis).I have worked extensively on this instrument and also know the protocol for sample preparation for this analysis.

### FIELD EXPERIENCE

- Carried out extensive fieldwork in Cretaceous of Trichnipally, Tertiary of Kachchh, flow mapping of basalt in various part of Maharashtra during graduation and post-graduation.
- During PhD the field work is mainly concentrated on the bathymetric survey in the lake and catchment study in the lake.

### PROFESSIONAL TRAINING

- Ten (10) days training at GSI, Field Training Center, Kothagudem, Telangana (2012)
- Two-month training at Western Onshore Basin, ONGC, Vadodara (2012)
- One-week training program on AMS carbon-14 dating at IUAC, New Delhi (2016)

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- 15 days training to learned protocol and procedure for Diatom slide preparation and quantification (2016) at Department of Geology, RTM Nagpur University, Nagpur

### **ACADEMIC PROJECTS**

- Project entitled “Lithofacies and depositional environment of Hazad member of Ankleshwar formation in Kural area in Jambusar –Broach block of Cambay basin” with Dr. Sayan Biswas, Chief Geologist, Western Onshore Basin, ONGC, Vadodara (2012)
- Project entitled “Microfacies analysis of Cenozoic rocks of Western Kachhch, Gujarat, India” with Dr. Mohan Sonar, Government Institute of Science, Aurangabad (Maharashtra) (2013)

### **SOFTWARE PROFICIENCY**

Coral Draw, Sigma Plot, PAST, XL-Stat, Google Earth, MS-Office, Q-GIS

### **ADMINISTRATIVE RESPONSIBILITIES**

- ✚ NAAC Member coordinator
- ✚ NSS Representative and General Secretary During Post Graduation
- ✚ Departmental LMS Coordinator at C3WR, Suresh Gyan Vihar University, Jaipur
- ✚ Departmental IQAC Coordinator at C3WR, Suresh Gyan Vihar University, Jaipur
- ✚ Departmental AQAR Coordinator at C3WR, Suresh Gyan Vihar University, Jaipur
- ✚ Departmental ISRO Edusat Program Coordinator at C3WR, Suresh Gyan Vihar University, Jaipur
- ✚ Member of Departmental Research committee (DRC), C3WR, SGVU
- ✚ Member of Research Advisory Committee (RAC), C3WR, SGVU
- ✚ Member of Board of Studies (BOS) of C3WR
- ✚ Member of university research committee of SGVU
- ✚ Fellow of BIRSA MUNDA hostel under Collegiate System of SGVU

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## WORKSHOPS CONFERENCE ORGANISED

- Organising Secretary, one day Webinar entitled on “Recent Trends in Climatic Studies: Issues and challenges” organized by Centre for Climate Change & Water Research, SGVU on 28<sup>th</sup> August 2020.
- Organising Secretary, one day virtual FDP on “Technical Research Paper Writing in High Indexed Journals” organized by Centre for Climate Change & Water Research, SGVU on 08 February 2021
- Organising Secretary, one day virtual FDP on “Disaster Management in India” Organized by Centre for Climate Change & Water Research, SGVU on 16 February 2021,
- Organising Secretary, Webinar on topic "Flow Analysis of the Torrential Rivers-Case study organized by Centre for Climate Change & Water Research, SGVU On Feb 27, 2021
- Organising Secretary, Webinar on topic "Indigenous Ecological Knowledge of Soil, Water and Nutrient Conservation in Sikkim Himalaya" organized by Centre for Climate Change & Water Research, SGVU On April 27, 2021
- Organising Secretary, One Day Virtual International Conference on “Earth Observation Technologies for Environmental Management” organized by Centre for Climate Change & Water Research, SGVU on 31 August 2022
- Organizing Team member in 21 Days Winter Schools (Level 1) Capacity Building Program in Geospatial Science and Technology sponsored by Department of Science and Technology started through virtual mode at Suresh Gyan Vihar University from 10-31 January 2022
- Organising Secretary, One Day International Virtual Conference on “Conservation and planning strategies for Sustainable Development: A Global Perspective” organized by Centre for Climate Change & Water Research, SGVU on 05<sup>th</sup> March 2022.
- Organising Secretary, FDP on Applications of Space Technologies in Defense Sector organized by Centre for Climate Change and Water Research between 1-2 April 2022.
- Organising Secretary, one day Webinar entitled on “**Global to Local Level Impacts of Covid-19 Pandemic**” organised by Centre for Climate Change & Water Research, SGVU and NIDM, New Delhi on 26<sup>th</sup> May, 2020.
- Organising Secretary, one day Webinar entitled on “**Impacts of Covid-19 Pandemic on Livelihood of Rural India**” organised by Centre for Climate Change & Water Research, SGVU and NIRD, Hyderabad on 27<sup>th</sup> May, 2020.
- Organising Secretary, one day Webinar entitled on “**Recent Trends in Climatic Studies: Issues and challenges**” organised by Centre for Climate Change & Water Research, SGVU on 28<sup>th</sup> August 2020.
- Organising Secretary, one day virtual symposium entitled on “**Earth Resource Management in Current scenario**” organised by Centre for Climate Change & Water Research, SGVU on 05<sup>th</sup> September, 2020.

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- Organising Secretary, one day virtual Workshop entitled “**EOFactory-Reformulating Earth Observation Analytics from Pixel to Intelligence with AI/ML**” by SkyMap Global, Singapore on 20 October, 2020.
- Organising Secretary, one day Webinar entitled on “**Advances in Sustainable Management of Water Resources**” on 08<sup>th</sup> October 2020.
- Convenor, one day Webinar entitled “**Advances in Space Technology for forest resource Inventory & Management**” on 03 October 2020.
- Organising Secretary, one day Webinar entitled on “**Earth observation satellites for Social, Environmental and Economic studies**” on 26<sup>th</sup> September 2020.
- Organising Secretary for three days 7<sup>th</sup> virtual annual convention on climate change and water C3W-2020 entitled “**Sustainability in Current Scenario: Challenges and Solutions (SCSCS-2020)**” during 05<sup>th</sup>-07<sup>th</sup> November, 2020.
- Organising Secretary for three days 6<sup>th</sup> annual convention on climate change and water C3W-2019 entitled “**Recent perspectives in climate change and sustainable development (RPCSD-2019)**” in association with Supermap and Geoplanet solutions, India during 08<sup>th</sup> -10<sup>th</sup> November, 2019.

### RESEARCH PUBLICATION

#### *Published*

1. Diwate, Pranaya, Narendra Kumar Meena, Ravi Bhushan, Sundeep Pandita, K. R. Chandana, and Pawan Kumar. "Sedimentation rate (Pb-210 and Cs-137), grain size, organic matter and bathymetric studies in Renuka Lake, Himachal Pradesh, India." *Journal of Himalayan Geology* 41, no. 1 (2020): 51-62.
2. Meena, N.K., Prakasam, M., Bhushan, R., Sarkar, S., **Diwate, P.** and Banerji, U., 2017. Last-five-decade heavy metal pollution records from the Rewalsar Lake, Himachal Pradesh, India. *Environmental Earth Sciences*, 76(1), p.39.
3. Pawan Kumar, Narendra Kumar Meena, **Pranaya Diwate**, Ambrish Kumar Mahajan, Ravi Bhushan "The heavy metal contamination history during ca 1839-2003 AD from Renuka Lake of Lesser Himalaya, Himachal Pradesh, India. *Environmental Earth Science* 78:549
4. Mishra, P.K., Chauhan, P.R., **Diwate, P.**, Parth, S. and Anoop, A., 2020. Holocene climate variability and cultural dynamics in the Indian subcontinent. *Episodes Journal of International Geoscience*, 43(1), pp.552-562.

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5. **Pranaya Diwate**, Narendra Kumar Meena, Sundeep Pandita. Climate Variability from Indian Subcontinent in the last 2ka: A Review. *Journal of Critical Review*. 2020; 7(5): 2460-2467. doi:10.31838/jcr.07.05.413
6. **Pranaya Diwate**, Firoz Khan, Sakshi Maurya, Narendra Kumar Meena, Samaya Humane , Rushikesh Baburao Golekar “Sedimentation Pattern and its Controlling Factors in Indian Lakes” *Bulletin of Pure and Applied Sciences*. Vol.40F, Geology (Geological Science), No.1, January-June 2021: P.38-52
7. Kaushik, Sandeep Kumar, Varun Narayan Mishra, Milap Punia, **Pranaya Diwate**, Thota Sivasankar, and Anil Kumar Soni. "Crop Health Assessment Using Sentinel-1 SAR Time Series Data in a Part of Central India." *Remote Sensing in Earth Systems Sciences* (2022): 1-18.
8. Ritesh Kumar, Akshay Rai, Varun Narayan Mishra, **Pranaya Diwate** and V. S. Arya Performance Evaluation of Supervised Classifiers for Land Use and Land Cover Mapping Using Sentinel-2 MSI Image *Journal of Geoscience Research* Vol. 6, No.2, July, 2021 pp. 231-241
9. Narendra Kumar Meena, **Pranaya Diwate**, Sundeep Pandita Evidence of ENSO and IOD Interplay in Continental Climatic Records from Southern Himalaya (Renuka Lake), India *Journal of Geoscience Research* Vol. 7, No.2, January, 2022 pp. 01-09

### ***Book/Chapter (International Scopus Indexed)***

1. Jamir, I., Diwate, P., Kumar, V., & Chauhan, G. S. (2020). Inferring Relationship of Landslides, Tectonics, and Climate: Tons Valley, NW Himalaya. In *Spatial Information Science for Natural Resource Management* (pp. 169-179). IGI Global.
2. Giri, Pavankumar, Pranaya Diwate, and Yadao Kumar Mawale. "Morphometric Analysis of Tapi Drainage Basin Using Remote Sensing and GIS Techniques." *Sustainable Development Practices Using Geoinformatics* (2020): 57-72.
3. Pranaya Diwate AND Sakshi Maurya "Remote Sensing and GIS in limnological studies: A case study from Northwest Himalayan Lakes, India" published in edited book volume *Geoinformation Technology in Earth Resources Monitoring and Management* **Publisher:** Nova Science Publishers (USA)
4. Patil, S. N., A. V. Deshpande, A. M. Varade, Pranaya Diwate, A. A. Kokoreva, R. B. Golekar, and P. B. Gawali. "Magnetic Susceptibility and Heavy Metals Contamination in Agricultural Soil of Kopargaon Area, Ahmadnagar District, Maharashtra, India." In *Geospatial Technology for Landscape and Environmental Management*, pp. 405-430. Springer, Singapore, 2022.
5. Rawat, Ashish, M. P. S. Bisht, Y. P. Sundriyal, Pranaya Diwate, and Swapnil Bisht.



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"Prioritization and Quantitative Assessment of Dhundsir Gad Using RS and GIS: Implications for Watershed Management, Planning and Conservation, Garhwal Himalaya, Uttarakhand." In *Geospatial Technology for Landscape and Environmental Management*, pp. 165-189. Springer, Singapore, 2022.

### *Abstract in Conference*

1. M.A.Sonar, K.M.Wanjadwadkar and **P.R.Diwate** "Study of bio-stratigraphy and sequence stratigraphy of Cenozoic succession of Kutch basin, western India "Conference paper presented (oral presentation) in 24<sup>th</sup> ICMS held during November 18-20, 2013 in Wadia Institute of Himalayan Geology, Dehradun.
2. **Pranaya Diwate**, Narendra K. Meena, Sumedh K.Humane, Sundeep K.Pandita "Sedimentary Diatoms based tropic status of Renuka Lake, Himachal Pradesh, India" Participated and presented a paper in conference 1<sup>st</sup> National geo research scholar meet (NGSOM) held during 1<sup>st</sup> to 4<sup>th</sup> June 2016.
3. **Pranaya Diwate**, Narendra K. Meena, Sumedh K.Humane, Sundeep K.Pandita "Sedimentary Diatoms based tropic status of Renuka Lake, Himachal Pradesh, India" Conference paper presented in 2<sup>nd</sup> National geo research scholar meet (NGSOM) held during 1<sup>st</sup> to 4<sup>th</sup> June, 2016.
4. Prakasam M., Narendra K. Meena, Sarkar Sudipta, **Pranaya Diwate** "Paleoclimatic multiproxy record from Tso Moriri Lake, NW Himalaya, India: during the past 600-years"Abstract in TWAS-ROCASA Young Scientist Conference "Frontiers in Earth & Climate Sciences" held during 5-7 Dec. 2016 at Bangalore, India.
5. **Pranaya Diwate**, Narendra K. Meena, Sumedh K.Humane, Sundeep K. Pandita "Multiproxy record of past 170-year climate and ecological changes from NW Himalayan lake sediments core (Renuka Lake), India." Conference paper presented in "National Conference on Earth System Science" held during May 16-18, 2018 in Wadia Institute of Himalayan Geology, Dehradun.
6. Narendra Meena, Prakasham M, Sarkar S. **Pranaya Diwate** "High resolution 1600 year climatic records inferred from Tso-Moriri lake Ladakh, northwestern Himalaya, India. Conference paper in Himalayan Karakoram Tibet (HKT) Workshop held at Oct.5-7, 2015.
7. Prakasam, M, Narendra. Meena, **Pranaya Diwate** "Multi-centennial climatic variability from Tso-Moriri Lake, NW Himalaya, India" CLIVAR-ICTP Workshop on Decadal Climate Variability and Predictability, Italy held during November 16-20, 2015.
8. **Pranaya Diwate**, Narendra K. Meena, Sumedh K.Humane, Sundeep K. Pandita "Diatoms response to climate change in the past 170 year from Renuka Lake, Northwest Himalaya, India accpeted in IGC 2020






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9. Firoz Khan, Narendra K. Meena, Y.P. Sundriyal, **Pranaya Diwate** "Palaeoclimatic scenario based on high resolution multi proxy records from Baspa Valley, Kinnaur, Himachal Pradesh, India Conference paper accepted in "Recent Perspectives on Climate Change and Sustainable Development" held during November 08-10, 2019 in Suresh yan Vihar University, Jaipur
10. Narendra Meena, **Pranaya Diwate**, Sundeep Pandita, Ravi Bhushan, Pankaj Kumar, Sundeep Chopra Signatures of Solar Influence on Indian Summer Monsoon for the Last Two Millennia from the Renuka Lake, Northwest Himalaya Conference paper presented in "Recent Perspectives on Climate Change and Sustainable Development" held during November 08-10, 2019 in Suresh yan Vihar University, Jaipur

### **INVITED TALK**

-  Delivered a Invited talk on Climate Change: Regional to Global Perspective on May 22-24, 2020 in the Webinar organized by the Geologist Association of Maharashtra
-  Delivered a Invited talk on Sep 19, 2020 in the Webinar organized by the GeoVigyan.
-  Delivered an Invited talk on 21 January 2022 in the DST 21 Days Winter School in Geospatial Technology.

### **HONOURS AND AWARDS**

- Awarded with "Late Sau Sitabai Ramchandra Mudalwad Paritoshik" for securing highest marks in the BAM University, Aurangabad (2013)
- INSPIRE FELLOWSHIP (2014)
- SGVU Research Award 2022

### **CERTIFICATION**

- Completed online course through Coursera on topic "*Climate change and water in Mountains: A Global Concern*" conducted by **University of Geneva, Switzerland**
- Completed online course through Coursera on *Everyday excel: Part One* conducted by **University of Colorado, Boulder, Colorado, United States**
- Completed online course through Coursera on topic " *The Dynamic Earth: A Course for Educators* " conducted by **American Museum of Natural History**
- Successfully completed course entitled "Remote Sensing & GIS Technology and Applications for University Teachers & Government Officials which was conducted by Indian Institute of Remote Sensing (IIRS), **ISRO** Dehradun during 13-06-2020 to 01-07-2020

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- Successfully completed course entitled “Basic Principles of Remote Sensing Technology” which was conducted by Indian Institute of Remote Sensing (IIRS), ISRO Dehradun during 13-06-2020 to 01-07-2020
- Successfully completed the online course on “Overview of Planetary Geosciences with special emphasis to the Moon and Mars”. The course was conducted by **Indian Institute of Remote Sensing (IIRS)**, during 08-06-2020 to 12-06-2020 .
- Attended Online Faculty Awareness Program on “Research Methodology ” organized by Department of Mechanical Engineering, Rajgad Dnyanpeeth’s Shri Chhatrapati Shivajiraje College of Engineering, Pune-412206 during the period of 20<sup>th</sup> may 2020 to 25<sup>th</sup> may 2020.
- Successfully awarded certificate on having completed the online course on “Satellite Photogrammetry and its Application”. The course was conducted by Indian **Institute of Remote Sensing (IIRS)**, during 29-06-2020 to 03-07-2020 .
- Successfully awarded this certificate on having completed the online course on “Health GIS : Geoinformatics for COVID19” which was conducted by Indian **Institute of Remote Sensing (IIRS)**, ISRO Dehradun, during 15-06-2020 to 19-06-2020.
- Attended International Seminar by Faculty of Civil Engineering and Built Environment on Disaster Risk Reduction and IR 4.0 11<sup>th</sup> June 2020 .
- Participated in one day Online International Webinar on “Population, Environment & Health : Issues and Challenges” on 20 June , 2020.
- Participated International webinar on population, environment & health : issues and challenges organised by department of geography shree baldeo p. g. college baragaon , Varanasi

### **REFERENCES**

**1. Dr. Narendra Kumar Meena**

Scientist , Wadia Institute of Himalayan Geology, Dehradun

Contact No- 8171360700, Email id-narendes@gmail.com

**2. Dr. Bhavani Singh Desai**

Associate Professor

Pandit Deendayal Petroleum University, Gandhinagar(Gujarat)

Contact No- 999829533, Email id- Bhawanisingh.Desai@spt.pdpu.ac.in

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### 3. Dr. Sumedh Humane

Professor

Department of Geology, RTM Nagpur University, Nagpur

Contact no-9822873863

Email id- [sumedh.humane@gmail.com](mailto:sumedh.humane@gmail.com)

### 4. Dr. Pradeep Srivastava

Associate Professor

IIT Roorkee

Email- [pradeep@es.iitr.ac.in](mailto:pradeep@es.iitr.ac.in)

### Declaration

I hereby declare that all the statements made in the curriculum vitae are true to the best of my knowledge and belief.

Name-Dr. Pranaya Diwate

Date-11-05-2022

Place –Jaipur

Web Address and URL

<https://www.gyanvihar.org/faculty-staff>

<https://scholar.google.com/citations?user=XWtcFOUAAAAJ&hl=en>

[https://www.researchgate.net/profile/Pranaya\\_Diwate](https://www.researchgate.net/profile/Pranaya_Diwate)

[https://www.gyanvihar.org/researchjournals/c3w\\_editorial.php](https://www.gyanvihar.org/researchjournals/c3w_editorial.php)