

Contacts

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#### **Educational Qualifications**

Assistant Professor- Department of Geology, University of Lucknow, Lucknow (Dec-2023 to Till Date).

**Research Associate**–Central University of Sagar, Madhya Pradesh (10/04/23-26/12/23)

**Temp.** Assistant **Professor-**Department of Geology, The M.S. University of Baroda, India (07/09/2022 to 06/04/2023)

**PhD** Awarded- CSIR-National Institute of Oceanography, India (Dec-2021). CSIR-JRF-NET Qualified (Dec-2015).

M.Sc. (Tech) Geology Institute of Science, B.H.U. Varanasi, CGPA 8.20 2013-2016

**B.Sc. (Hons) Geology**, Institute of Science, B.H.U. Varanasi, CGPA 7.17 2010-2013.

#### **Personal Details**

Date of Birth :5th Jul 1991

Gender

Nationality :Indian

Linguistic ability: English and Hindi

Male

https://www.researchgate.net/profile/Raman and Yadav2 http://udrc.lkouniv.ac.in/department/ViewProfil e?EId=696

# Dr. RAMANAND YADAV Assistant Professor

#### Thesis title

"Reconstruction of monsoon variability, associated upper water-column structure productivity, and carbonate content from equatorial Indian Ocean during the late Quaternary"

Ph.D. Awarded- AcSIR-CSIR- National Institute of Oceanography under the Guidance of Dr. Sushant S. Naik

### **Career Objective**

To extend my knowledge, skills and merits for better understanding of the marine earth system science and to work in scientific and relevant societal perspective.

### **Research Interest**

### Paleoclimatology/Paleoceanography/Paleomonsoon

- Paleomonsoon reconstruction based on marine microfossil (Foraminifera) and geochemical proxies on Million year to Centennial time scale.
- Using stable isotopic composition of Oxygen and Carbon-infer the paleomonssonal study from the marine realm.
- > Using Carbonate chemistry- document the concentration of  $CO_2$  in marine realm and revealing the dissolution of atmospheric  $CO_2$  in to the ocean water and leakage of deep ocean  $CO_2$  to the atmosphere at different time scale.
- To unfold the study of past oceanic carbon cycling and mixing of different water masses.
- $\triangleright$  Reconstruction of paleoproductivity using  $\delta^{13}$ C and other geochemical proxy.

# **Research Experience and Field Training**

- Participation in cruise RV Sindhu Sadhana during its 67<sup>th</sup> expedition started from off Chennai to Goa. Learned sampling collection techniques using Multi corer, Gravity Corer and Piston corer (Nov-Dec, 2019).
- Down core variation of CaCO<sub>3</sub>% and Total Organic Carbon (TIC) & Total Nitrogen % from the Central & Eastern Equatorial Indian Ocean during late quaternary (Jan-2018 to July -2018).
- Full one year (two semester) Ph.D. course work by AcSIR-CSIR-National Institute of oceanography: Introduction to Oceanography, Ocean Observation sampling, Research methodology, Research proposal and three elective papers (Aug-2016 to July- 2017).

- Dissertation in M.Sc. (Tech) Geology Course:-VI semester Systematic study of Bivalves from Late Cretaceous succession of Cauvery Basin, Tamilnadu India, under the supervision of Prof. A. K. Jaitly, Department of Geology, B.H.U., Varanasi (Sep 2015 to May 2016).
- M.Sc. (Tech) IV Semester- Geological studies in Eastern Ghats area (Jharsuguda, Keonjhar, Puri districts) Odisha (Feb to Mar 2015).
- M.Sc. (Tech) II Semester- Geological Mapping around Renukoot area in Sonbhadra district-Uttar Pradesh (Feb 2014).
- > B.Sc. VI Semester- Geological field study of Chitrakoot Region, Madhya Pradesh (Mar 2013).
- B.Sc. IV Semester– Detailed Outcrop study of Lower Vindhyan Supergroup in Sone Valley (Semri and Kaimur Groups) (Feb 2012).
- B.Sc. II Semester–Field work and overview of the Geology of Vindhyan Super Group exposed in nearby Chunar and Mirzapur Uttar Pradesh (Feb 2011).

# **Technology Expertise**

- Handling of (coulometer) *CM140 Total Inorganic analyzer* for sediment sample with Acidification module.
- > Handling of Thermo Scientific *Flash2000 Series Nitrogen and Carbon analyzer* for the sediment sample
- > Handling of *Laser Particle Size Analyser* (LPSA) for sediment sample.
- > Handling of *Auto-analyzer* to analyze the Nutrient concentration.
- > Chemical analysis like dissolve oxygen, nitrate and pH can analyze.
- Software's for data analysis and interpretation like Corel Draw, ODV and Origin plots.

### Workshops, Trainings and Conferences

- Participated in 3 days program "International Webinar Series" on the topic "Advances in Earth and Environmental Geosciences", organized by Department of Geophysics ISc, BHU in association with AGU during 10-11 March, 2022.
- International Conference on Paleoclimate Changes (ICPC 2020) held during 9-10 July, 2020 on virtual platform organized by School of Civil Engineering, VIT Chennai.
- Attended an e-Training on "Micropaleontology and <sup>C</sup>14 dating" from 21.07.2020 to 31.07.2020 Organized by Geological Survey of India, Regional Training Division, Northern Region, Lucknow.
- Participated in a 3 days Webinar entitled, "Avenues in Ocean Research" conducted by BECH-RUSA 2.0 & Department of Marine Science, Bharathidasan University, Palkalaiperur, Tiruchirappalli, from 27<sup>th</sup> to 29<sup>th</sup> May 2020.
- Participated in a 3 days Faculty program on "Art of writing research article and funding proposals" Organized by Manakula Vinayagar Institute of Technology (IEEE STB-10831) Puducherry from 21<sup>st</sup> May 2020 to 21<sup>rd</sup> May 2020.
- Delivered a public lecture on the topic "Introduction to the Earth System Science" at HCJ Academy, Ayodhya on 26<sup>th</sup> February, 2019.

- Participated in a 3 day "National Workshop on Isotopes in Earth, Ocean & Atmospheric Sciences jointly organized by IUAC-NEW DELHI & CSIR-NIO and hosted by CSIR-NIO, Goa during 18-20, February, 2019.
- Participated in a 2 day "National Level Workshop on wetland Restoration" organized by Dr. Balasaheb Khardekar College, Vengurla, Maharashtra, India during 2 -3, February, 2019.
- Participated in a 3 day "SCOR-InterRidge Workshop on Mid-Ocean Ridges and other Geological Features of the Indian Ocean", jointly organized by the SCOR, InterRidge and co-hosted by CSIR-National Instituteof Oceanography, Goa, India from 14th-16th November, 2018.
- Participated in a 3 day AAPG (American Association of Petroleum Geology) Annual Meet held in Indian Institute of Technology (Indian School of Mines), Dhanbad during 22 -24, February, 2014.

# Posters and oral presentation

- Oral presentation Ramanand Yadav\*, Sushant S.Naik, P.D.Naidu. on "Calcite dissolution from a sediment core from the Equatorial Indian Ocean" in the XXVIII Indian Colloquium on Micropaleontology and Stratigraphy organized by Department of Environmental Sciences, Savitribai Phule Pune University, Pune, during 4-6 May, 2022.
- Oral presentation Ramanand Yadav\*, Sushant S.Naik. on "Variation in carbonate burial in the equatorial Indian Ocean during the late Glacial-Holocene: Implication to the deglacial rise of atmospheric CO<sub>2</sub>" in the International Indian Ocean Science Conference (IIOSC)-2022 organized by CSIR-National Institute of Oceanography, Goa, during 14-18 March, 2022.
- Poster Presentation Ramanand Yadav<sup>\*</sup>, Smita N. Naik, Sushant S. Naik, Kumari Nisha. On "Planktic foraminiferal response to the surface hydrography of the southeastern Arabian Sea during last 140ka: linkage to the tropical/or equatorial climate dynamics" virtually organized by Indian Quaternary Congress during 19-21 January, 2022.
- Oral presentation Ramanand Yadav\*, Sushant S.Naik. on "Indian Monsoon variability inferred from Planktic foraminiferal faunal record from the central equatorial Indian Ocean during the last 33kyr" in XXVII Indian Colloquium of Micropaleontology and Stratigraphy (ICMS) during 4-6, November, 2019 at BHU, Varanasi.
- Oral presentation-Ramanand Yadav\*, Sushant S Naik, P.D.Naidu. On "Productivity variations from the Eastern Equatorial Indian Ocean since the mid-Pleistocene" in 55th Annual Convention on the theme "changing Water Cycle & Water Resources" jointly organized by Indian Geophysical Union & Rabindranath Tagore University, held in RNTU- Bhopal during 5-7, December, 2018.

### Extra-Curricular

- Certificate of participation for one day Hindi seminar on the "Indian monsoon variability inferred from Planktic foraminiferal record in the central equatorial Indian Ocean during last 33ka" organized by CSIR-National Institute of Oceanography, Dona Paula, Goa on 9<sup>th</sup> September, 2019.
- Certificate of participation for one day Hindi seminar on the theme of "Blue Economy" the topic of presentation was, "Productivity variation from Eastern Equatorial Indian Ocean with special reference to the Indian ocean Dipole " organized by CSIR-National Institute of Oceanography, Dona Paula, Goa on 24<sup>th</sup> September, 2018.
- 2nd position in volleyball event 2014-2015 organized by Dalmia hostel, Institute of Science, Athletic Association, B.H.U., Varanasi.

- 3rd position in volleyball event 2014-2015 organized by Institute of Science, Athletic Association, B.H.U., Varanasi.
- 2nd position in volleyball event 2012-2013 organized by Institute of Science, Athletic Association, B.H.U., Varanasi.

### Honours & Awards

- Best Oral Paper Presentation Award- in X X V I I I Indian Colloquium on Micropaleontology and Stratigraphy organized by Department of Environmental Sciences, Savitribai Phule Pune University, Pune, during 4-6 May, 2022.
- Senior Research fellow of Council of Scientific and Industrial Research, New Delhi India with fellowship for PhD Programme (Aug 2018 – Aug-2021).
- Junior Research fellow of Council of Scientific and Industrial Research, New Delhi India with fellowship for PhD Programme (Aug 2016-Aug2018).

# **Publications**

- Naik, Smita. N., Naik, S. S., Yadav, R., Nisha, K. Planktic foraminiferal response to the surface hydrography of the southeastern Arabian Sea during last 140ka: linkage to the tropical/or equatorial climate dynamics? (Under Preparation)
- Prasad, P., Loveson, V.J., Kumar, V., Shukla, A.D., Chandra, P., Verma, S., Yadav, R., Magotra, R., Tirodkar, G.M., 2023. Reconstruction of Holocene relative sea-level from beach ridges of the central west coast of India using GPR and OSL dating. Geomorphology, 442, 108914. IF=3.9 <a href="https://doi.org/10.1016/j.geomorph.2023.108914">https://doi.org/10.1016/j.geomorph.2023.108914</a>.
- Yadav, R., Naik, S.S., 2022. Glacial-interglacial differences in carbonate burial in the equatorial Indian Ocean. Geo-Marine Letters, 42, 12 IF=2.1 <u>https://doi.org/10.1007/s00367-022-00736-9</u>.
- Yadav, R., Naik. S.S., Naidu, P.D., 2022.Contrasts in calcium carbonate dissolution above the Lysocline in the equatorial Indian Ocean over the last ~ 40 ka. Marine Geology, 444, 106717.
   IF= 2.9 <a href="https://doi.org/10.1016/j.margeo.2021.106717">https://doi.org/10.1016/j.margeo.2021.106717</a>.
- Yadav, R., Naik, S.S., Narvekar, J., 2022. The equatorial Indian Ocean upper water-column structure influenced by cross-basinal water exchange over the last~ 40000 years. Quaternary International, 642, 84-92. IF=2.2 <u>https://doi.org/10.1016/j.quaint.2021.04.002.</u>
- Saraswat, R., Kurtarkar, S.R., Yadav, R., Mackensen, A., Singh, D.P., Bhadra, S., Singh, A.D., Tiwari, M., Prabhukeluskar, S.P., Bandodkar, S.R., Pandey, D.K., 2020. Inconsistent change insurface hydrography of the eastern Arabian Sea during the last four glacial–interglacial intervals. Geological Magazine, 157(6), 989-1000. IF=2.3 <u>https://doi.org/10.1017/S0016756819001122</u>.
- Prasad, P., Loveson, V.J., Kotha, M., Yadav, R., 2020. Application of machine learning techniques in groundwater potential mapping along the west coast of India. GIScience & Remote Sensing, 57(6) 735-752. IF=6.7 <u>https://doi.org/10.1080/15481603.2020.1794104.</u>
- Nigam, R., Luis, A.J., Prasad, P., Kuttikar, S., Yadav, R., Vaz, E., Kotha, M., 2022. Spatio- temporal assessment of COVID-19 lockdown impact on beach litter status and composition in Goa, India. Marine Pollution Bulletin, 174, 113293, IF=5.8 <a href="https://doi.org/10.1016/j.marpolbul.2021.113293">https://doi.org/10.1016/j.marpolbul.2021.113293</a>.