

Yogesh Kulkarni

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Work Experience:

- Assistant Professor (Geology),
Department of Civil Engineering,
Gharda Institute of Technology, Ratnagiri, Maharashtra
August 2016 - Present
Responsibilities:
 - Teaching Engineering Geology, Disaster Management, Industrial Waste Treatment, GIS
 - Chairman, Professional Association Committee
 - Member, T&D Cell, Unnat Maharashtra Abhiyan Committee
 - Play key role in Jalyukta Shivar third party Assessment
 - Member of R&D Committee
 - Dept. Coordinator for NBA & NAAC Accreditation
 - Guided several graduate projects which gained recognition through various awards and research paper publications
- TARE Project Scientist (Limited term)
Indian Institute of Science and Education Research (IISER) Pune
Dec 2021 - Dec 2024
Responsibilities:
 - Research work under TARE Project entitled "Geochemical studies on Godavari River sediments: Implications to past and present weathering pattern".
- Junior Geologist
Groundwater Survey & Development Agency (GSDA), Govt. of Maharashtra
Sept. 2014 - July 2016
Responsibilities:
 - Hydrogeological studies and survey for drought affected regions of Satara district, Maharashtra.
 - Groundwater source identification for Rural water supply schemes
- Research Fellow
Department of Geology, S.P. Pune University, Pune
Oct. 2010 - July 2014
Responsibilities:

Research work under 2 DST, Govt. of India sponsored projects:

 - Project 1: Sediment source-sink relations through continental to marine tracts of Godavari-Bengal fan system: A Mineral magnetic, geochemical, sedimentologic and morphometric approach of sediment source mixing.
 - Project 2: Sedimentologic and Mineral Magnetic studies to characterize some of the dynamic beach sedimentary processes in the West Coast of Maharashtra, India

Education:

- **Ph.D.** (Geology: Sedimentology, Mineral Magnetism): 2012-2018
Institute: Savitribai Phule Pune University, Pune, India
Thesis title: Mineral Magnetic and Sedimentologic studies on the surface sediments from the Godavari drainage basin: Implication to sediment source mixing.
- **M.Sc.** (Geology): 2008-2010
Institute: Pune University, Pune, India (Marks 62.68%)
- **B.Sc.** (Geology, Chemistry, Computer Science): 2004 - 2007
Institute: S.R.T.M. University, Nanded, India (Marks 70.18%)

Additional certificates:

- CSIR-UGC NET for Lectureship
- GATE in Geology & Geosciences
- Three months certificate course in GIS & GPS

Grants and Awards:

- Teachers Associateship for Research Excellence (TARE), DST-SERB grant, 2021 (18 lakh)
- Minor Research Grant by University of Mumbai, 2020 (40,000)
- International Travel Grant by DST-SERB, 2018 (2.5 lakh)

Professional Association:

- Annual Member of European Geological Union
- Sponsored Member of International Association of Sedimentologist
- Life member of Gondwana Geological society, India

Research Skills:

- Sedimentologic analysis: Heavy Mineralogy, Grain size analysis, Clay Mineralogy using XRD
- Mineral Magnetism: Low field magnetic susceptibility, Isothermal Remanent Magnetization,
- Anhyseretic Magnetic Remanence, Thermo-magnetic analysis, Hysteresis loop analysis

Software Skills:

- *GIS software:* ArcGIS, QGIS, Global Mapper, Surfer, Ilwis
- *Statistical software:* MINITAB, Sigma Plot, Origin
- *Others:* Corel draw, MS-Office

Major workshops arranged:

- 2 Days workshop on “Infrastructure Development”, 12th & 13th October 2019, GIT
- 3 Days workshop on “Application of GIS & GPS in Civil Engineering”, 9th to 11th January 2020, GIT
- 4 Days workshop on “Geospatial studies using QGIS”, 22nd to 25th March 2022, GIT

Projects guided:

- Flood assessment in Rajapur city using QGIS (2021)
- Jalyukta Shivar Assessment work in Dapoli Taluka, Ratnagiri: Field and GIS based study (2021)
- Disaster Management plan of North Ratnagiri District using QGIS (2020)
- Analysis and Feasibility study of Cyclone shelter using Revit and ETabs software (2020)
- Assessment of Watershed Development Work In Anari Village, Tal-Chiplun (2019)
- Landslide studies across Mumbai-Goa Highway in stretch of Kashedi to Chiplun (2018)
- Hydrogeological studies for groundwater utilization and management in Lavel village, Tal. Khed, Dist. Ratnagiri (2017)
- Hydrogeological studies for groundwater utilization and management in Mundhar village, Tal. Guhagar, Dist. Ratnagiri (2017)

Expert talks:

- Importance of Geology in Water Conservation structures; GSDA Pune Office, June 2021
- Geological perspective in Groundwater and watershed management development; GSDA Satara Office, July 2021
- Research funding: Process and opportunities; Gharda Institute of Technology, Feb 2022

Major workshops attended:

- 20th International Sedimentologic Congress (ISC), Quebec, Canada
- 1.5 month of foundation training for Groundwater survey, GSDA, Govt. of Maharashtra
- Attended 15 Day DST sponsored Field Training Program “Understanding Structures and Tectonic Evolution of the Himalaya through a Transect across Chandigarh-Manali-Leh-Panamik: Indian plate to South Eurasian Plate”
- Attended 5 day DST Sponsored workshop on Rock Magnetism and Paleomagnetism at Aizwal, Mizoram, India

Publications:

Data-based evaluation of paleoclimate records from the terrestrial Indian region: 2021

Opportunities and gaps

Nikita Kaushal, Y Kulkarni, P Srivastava, S Rawat, S Managave

PAGES Magazine: Science Highlights 29 (1), 50-51

<u>Source to sink sedimentation in Godavari River during Late Holocene: Inferences from Mineral Magnetic studies</u>	2018
YR Kulkarni, SJ Sangode, DC Meshram International Sedimentological Congress, Quebec, Canada	
<u>A mid- to late-Holocene record of vegetation decline and erosion triggered by monsoon weakening and human adaptations in the south-east Indian Peninsula</u>	2017
M Cui, Z Wang, K Nageswara Rao, SJ Sangode, Y Saito, C Ting, ... The Holocene	
<u>Sedimentary and Geomorphic Signatures of a Cloud burst and triggered flash floods in the Indus valley of Ladakh Himalaya</u>	2017
SJ Sangode, DC Meshram, S Rawat, R Kulkarni, Y, DM Chate, ... Himalayan Geology 38 (1), 12-29	
<u>Holocene sediment transfer in Godavari River: Inferences from mineral magnetic studies</u>	2016
YR Kulkarni, SJ Sangode, K Nageshwar Rao International Geological Congress, Cape Town, South Africa	
<u>Mineral Magnetic Characterization of the Godavari River and Western Bay of Bengal Sediments: Implications to Source to Sink Relations</u>	2015
YR Kulkarni, SJ Sangode, J Bloemendal, N Mehsram, D. C. and Suresh JOURNAL GEOLOGICAL SOCIETY OF INDIA 85, 71-78	
<u>Middle to Late Holocene monsoon, ancient civilizations and fluvial systems</u>	2014
YR Kulkarni	
<u>Mineral magnetic characterization of the Godavari river sediments: implications to Deccan basalt weathering</u>	2014
YR Kulkarni, SJ Sangode, DC Meshram, SK Patil, Y Dutt Journal of the Geological Society of India 83 (4), 376-384	
<u>Neotectonic response of the Godavari and Kaddam Rivers in Andhra Pradesh, India: implications to quaternary reactivation of old fracture system</u>	2013
SJ Sangode, DC Meshram, YR Kulkarni, SS Gudadhe, DB Malpe, ... Journal of the Geological Society of India 81 (4), 459-471	
<u>A Mineral Magnetic Approach of Sediment Source Mixing in Godavari and Kaddam Rivers, A dilabad District, Andhra Pradesh</u>	2012
S Porate, SJ Sangode, DC Meshram, Y Kulkarni, SK Patil, DS Dhongle Gondwana Geological Magazine 27 (1), 17-30	

Personal details:

- Date of Birth: 18/02/1987
- Languages (With full professional efficiency): English, Hindi, Marathi
- Nationality: Indian
- Religion: Hindu
- Marital Status: Married

References:

Dr. S. J. Sangode

(Professor)

Department of Geology,

S.P. Pune University,

Pune, India

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Dr. K. Nageswar Rao

(Professor Emeritus)

Department of Geo-engineering,

Andhra University,

Vishakhapattanam, India

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