Dr. Anjali Vijayan

Assistant Professor
Department of Geology
School of Earth Sciences
Central University of Tamil Nadu
Thiruvarur, Tamil Nadu, 610005
Email: anjalivijayan@cutn.ac.in

EDUCATION

PhD: 2017 (Geology), IIT Bombay, Mumbai, Maharashtra

Thesis title: "Petrology and $^{40}Ar/^{39}Ar$ Geochronology of the Mer Mundwara and Sarnu-Dandali alkaline complexes, Rajasthan, Northwestern India."

MSc: 2012 (Applied Geology), Pondicherry University, Puducherry

PROFESSIONAL CAREER

1. **Assistant Professor** – March 2020 – Present, Central University of Tamil Nadu, Thiruvarur, Tamil Nadu
2. **Research Associate** – November 2017- March 2020, National Centre for Earth Science Studies, Thiruvananthapuram
3. **Assistant Professor (Contractual)** – August 2017- November 2017, Central University of Karnataka, Gulbarga, Karnataka
4. **Senior Research Fellow (UGC-SRF)** – August 2014 - July 2017, IIT Bombay, Mumbai, Maharashtra
5. **Junior Research Fellow (UGC-JRF)** – July 2012 - July 2014, IIT Bombay, Mumbai, Maharashtra

RESEARCH INTERESTS

Igneous Petrology, geochemistry, Environmental Geochemistry, Medical Geology, Isotope Geology, geochronology

TEACHING EXPERIENCE

Geochemistry, Igneous Petrology, Mineralogy, Exploration Geology, Paleontology, Disaster Management, Earth System Science, Analytical Techniques in Geoscience

RESEARCH GUIDANCE

	Completed	Ongoing
PhD	**-**	**1**
MSc	**10**	**-**

PUBLICATIONS

Peer-reviewed journals: 4

Citations (1st August 2023): 140

h-index (1st August 2023): 4

i10 index (1st August 2023): 4

HONOURS/ AWARDS/FELLOWSHIPS:

1. Qualified GATE 2012 & GATE 2015
2. ONGC, Chennai Gold medal (2012) for Applied Geology topper at Pondicherry University.
3. Indira Gandhi single girl child scholarship 2011 for post graduate students
4. IAS Summer research fellowship 2011
5. Cleared JRF and Lectureship NET (National Eligibility Test) in December 2011.
6. Secured second rank in B.Sc. Geology examination 2010 (Mahatma Gandhi University, Kerala).

MEMBERSHIP IN PROFESSIONAL BODIES

1. European Geosciences Union (EGU) -Member
2. International Association of Geochemistry - Member
3. International Association For Structural Geology & Tectonics (IASGT) - Member

TRAINING/CONFERENCES/WORKSHOPS ATTENDED

1. EGU General Assembly 2017 held in Vienna, Austria, 23–28 April 2017
2. GSI Annual Conference-2016 Developments in Geosciences in the Past Decade – Emerging Trends for the Future and Impact on Society, held in IIT Kharagpur, India, 21-23 October 2016

WEBINAR ATTENDED

1. Webinar on "Ore Deposits and Ore forming Processes" organised by Department of Earth Sciences, Pondicherry University from 4th September to 7th September 2020.
2. Webinar on " Role of Geospatial Mapping in Managing Pandemic: Applications and Interventions for Resilience" organised by National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India on 28th July 2020.

TRAINING/CONFERENCES/WORKSHOPS ORGANISED

1. One-Day Workshop on "Advanced Microscopic Techniques" organized by the Department of Geology in collaboration with InBiotek Microsystems, Kochi, Kerala, conducted on 8th March 2023

INVITED LECTURES

1. Delivered an invited lecture on "Medical Geology as an emerging discipline in Geosciences: Challenges and Prospects" in the DST-GATI sponsored International Webinar on "Emerging Trends in Geosciences And Its Social Impact (ETGS 2022)" 1st - 5th February, 2022 organized by Department of Earth & Atmospheric Sciences National Institute of Technology Rourkela, Odisha, India.

ACADEMIC ACTIVITIES

1. Member: Departmental Research Committee (DRC), Department of Geology, Central University of Tamil Nadu (November 2021-till date)
2. Member: School Board of School of Earth Sciences, Central University of Tamil Nadu (December 2020-August 2021)
3. Member: Board of Studies of The Department of Geology, Central University of Tamil Nadu (October 2020-till date)

ADMINISTRATIVE RESPONSIBILITIES

1. Member: NAAC Criteria Subcommittee, Criteria VII (March 2021 – till date)

FACULTY INDUCTION/DEVELOPMENT/REFRESHER PROGRAMS ATTENDED

S. No.	Name of the Program	Organizer	Duration
1	Refresher Course in Earth Sciences	UGC-HRDC, Kumaun University, Nainital, Utarakhand, India	15.03.2023-28.03.2023
2	Faculty Induction Programme	UGC-HRDC Osmania University, Hyderabad, Telangana	01.09.2021 to 30.09.2021
3	Faculty Development Programme	Central University of Tamil Nadu	30.03.2021

LIST OF PUBLICATIONS

Papers published in international peer-reviewed journals

1. Sheth, H., Pande, K., **Vijayan, A.,** Sharma, K. K. and Cucciniello, C., 2017. Recurrent Early Cretaceous, Indo-Madagascar (89-86 Ma) and Deccan (66 Ma) alkaline magmatism in the Sarnu-Dandali complex, Rajasthan: $^{40}Ar/^{39}Ar$ age evidence and geodynamic significance. Lithos, v. 284- 285, pp. 512-524.
2. Pande, K., Cucciniello, C., Sheth, H., **Vijayan, A**., Sharma, K.K., Purohit, R., Jagadeesan, K.C. and Shinde, S., 2017. Polychronous (Early Cretaceous to Palaeogene) emplacement of the Mundwara alkaline complex, Rajasthan, India: $^{40}Ar/^{39}Ar$ geochronology, petrochemistry and geodynamics. International Journal of Earth Sciences (Geol. Rund.), v.106 (5), pp. 1487-1504.

3. **Vijayan, A**., Sheth, H. and Sharma, K.K., 2016. Tectonic significance of dykes in the Sarnu-Dandali alkaline complex.Rajasthan, northwestern Deccan Traps.Geoscience Frontiers, v. 7, pp. 783-791.
4. Cucciniello, C., Demonterova, E. I., Sheth, H., Pande, K. and **Vijayan, A.,** 2015. $^{40}Ar/^{39}Ar$ geochronology and geochemistry of the Central Saurashtra mafic dyke swarm: insights into magmatic evolution, magma transport, and dyke-flow relationships in the northwestern Deccan Traps. Bulletin of Volcanology, v. 77(5), pp. 1-19.

Conference Abstracts

1. **Vijayan, A.,** Pande, K., Sheth, H., & Kant Sharma, K. (2017, April). The $^{40}Ar/^{39}Ar$ age record and geodynamic significance of Indo-Madagascar and Deccan flood basalt volcanism in the Sarnu-Dandali alkaline complex, Rajasthan, northwestern India. In EGU General Assembly Conference Abstracts (p. 351).
2. **Vijayan, A.,** Pande, K., Sheth, H., & Sharma, K. K. (2016, October). $^{40}Ar/^{39}Ar$ dating of the Sarnu-Dandali complex (Rajasthan, northwestern India): Intracontinental alkaline magmatism related to India-Madagascar break-up (~ 86 Ma) as well as Deccan volcanism (~ 66 Ma). In Annual General Meeting of the Geological Society of India (p. 447).