

Mugdha Chimote (she/her)

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I am a geologist with strong passion and constant curiosity about earth's dynamics, currently undertaking master's degree in Volcanology at Lancaster University, UK. I wish to develop a research-oriented career with a focus on understanding various magmatic processes and their significance in context of geological history.

EDUCATION

- **Lancaster University, Lancaster, UK (2021-2022)**

Master of Science in Volcanology and the Environment

Opted modules, in addition to physical volcanology, include geohazards, GIS, programming skills, and data assimilation and integration. Dissertation thesis titled, "Magma deformation in Chachahuén dyke, Argentina", being conducted under the supervision of Dr. Hugh Tuffen, in collaboration with Dr. Steffi Burchardt and Tobias Schmiedel of Uppsala University, Sweden.

- **Savitribai Phule Pune University, Pune, India (2015-2017)**

Master of Science in Geology • 5.72 on 6 CGPA (= 81.2%)

A curriculum focused on general geology comprising of igneous petrology, structural geology, mineralogy, tectonics, geomorphology, and remote sensing and GIS. Master's thesis titled, "Quaternary Geological Studies along Godavari River, In and Around Gangapur, Nashik District, Maharashtra", conducted under the guidance of Dr. Sudha Vaddadi (Geologist, formerly with Geological Survey of India), in collaboration with Dr. Sushma Deo and Dr. S. N. Rajaguru of Deccan College of Archaeology, Pune, India.

- **Savitribai Phule Pune University, Pune, India (2012-2015)**

Bachelor of Science in Geology • 79.47%

Physics, Mathematics, and Statistics as secondary subjects

- **University of Pune, Pune Division (2010-2012)**

Higher Secondary Board Examination (Science) • 81.67%

RESEARCH EXPERIENCE

Successfully defended geology master's thesis on the topic, "Quaternary Geological Studies Along Godavari River, In and Around Gangapur, Nashik District, Maharashtra".

Research highlights:

- Sedimentological analyses of Quaternary sections in study area
- Build lithosections of each section
- Study of neo-tectonic activities in Deccan Traps based on microfaults and microkinks found in samples along knickpoints
- Supplement already existing vast archaeological data with petrographic, structural, and sedimentological data to understand depositional history of the major Quaternary units exposed in the area

PUBLICATIONS

- Chimote, M., Vaddadi, S., Deo, S., Mude, S., Rajaguru, S. (2018), "Evidence of Microscale Deformation in Deccan Basalts in River Godavari, Nashik, Maharashtra", *Journal of Geosciences Research*, Vol. 3, No. 2, July 2018, pp 171-176.
- Chimote, M. (2019). "Quaternary Geological studies along Godavari River, near Gangapur Area, Nashik District, Maharashtra", Conference proceedings: *4th Annual Explorations in Maharashtra Conference*, Centre for Extra-mural Studies, University of Mumbai, pp 94-99.

RESEARCH SKILLS

- Geological fieldworks and field mapping with an experience of more than 10 fieldworks in Deccan Basalts
- Petrographic analyses, textural and mineralogical analyses of igneous rocks
- Scientific report writing
- Data collection, analysis, and interpretations
- Software knowledge: OriginPro, Corel Draw Suite, ArcGIS, R, MATLAB, MS Office

CONFERENCES & PRESENTATIONS

- "Explorations in Maharashtra", 4th annual workshop organized by Centre of Archaeology, Centre for Extra-mural Studies, University of Mumbai, India.
- "Brihanmaharashtra Prachyavidya Parishad", organized by Gokhale Education Society, Nashik, Maharashtra.

AWARDS & SCHOLARSHIPS

J. N. Tata Scholarship for Higher Education of Indians

CERTIFICATIONS

Indian Institute of Technology, Kanpur, India • Essentials of Data Science with R • 72%

EMPLOYMENT EXPERIENCE

- **Student Ambassador** • **Lancaster University** (January 2022–Present)
- **Teaching Assistant** • **Lancaster Environment Centre, Lancaster University** (January 2022–Present)
Assistant for practical and field sessions for undergraduate geology courses at Lancaster Environment Centre
- **Contributing Writer** • **Deposits Magazine, UK** (September 2020 – Present)
Contributing articles to the magazine with a focus on Indian geology
- **Freelance Editor** • **Earth, Atmospheric, and Planetary Science Department, Cactus Communications Pvt. Ltd.** (August 2020 – October 2021)
Manuscript editing, providing subject matter expertise, and helping scientific community reach a global audience

- **Scientific Editor • Advanced Centre for Water Development and Management, Pune, India**
(September 2018 - December 2019)
Manuscript editing, proofreading, working with MS Office, designing images using Corel Draw suite
- **Assistant Professor • College of Military Engineering, Pune, India** (June 2018 – June 2019)
Taught Geology to B.Tech civil engineering students
- **Volunteer • Centre for Education and Research in Geosciences (CERG), Pune, India (cerg.org.in)**
(September 2017 – Present)
The organization aims to bring geosciences to common man and create awareness regarding importance of earth's processes in young minds. My responsibilities involve content development for various geoscience activities conducted by the organization, and management and execution of said activities. Moreover, I worked as the organization's lead geoscience communicator by visiting various schools and delivering lectures.

REFERENCES

Dr. Hugh Tuffen
Reader in Volcanology,
Lancaster Environment Centre, Lancaster University, Lancaster- LA1 4YW
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Dr. Vivek Kale
Former Adjunct Professor, Indian Institute of Technology- Bombay, India
Managing Trustee- Advanced Centre for Water Development and Management (ACWADAM), Pune, India
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