

PUSHPA ZAMARKAR
M.Sc. (Geology), PhD
S.S.E.S.A's Science College,
Congress Nagar, Nagpur
Cellphone: +91-70208898026
E-mail: pushpa.zamarkar@sscnagpur.ac.in

Personal Details

Father's name: Babarao Kaluji Zamarkar
Mother's name: Alka Babarao Zamarkar
Date of Birth/ Place: 16:02:1992/ Salona (Maharashtra, India)
Sex: Female
Nationality: Indian
Marital Status: Unmarried
Present Address for Communication:
Department of Geology, Shivaji Science College,
Congress Nagar, Nagpur.
Permanent Address: Gayatri Nagar, Gaurkheda kumbhi, Ta. Achalpur, Dist.
Amravati-444805

Objectives

To enhance my knowledge by continuous training and development in a suitable environment mainly dealing with the Earth & Planetary Sciences in order to sharpen my research and professional skills and broaden my knowledge base.

Academic Qualification

Year	Examination/ Degree	Institution/ University	Subject(s)	Division/Marks (%)
2019 - current	Assistant Professor	SSESA's Science College, Congress Nagar, Nagpur-12	Department of Geology	
2018- current	Doctor of Philosophy (Ph.D.)	Savitribai Phule Pune University, Pune	Geology	N/A
2016	Master of Science (M.Sc.)	Dr. Babasaheb Ambedkar Marathwada University, Aurangabad	Geology	78.50 %
2014	Bachelor of Science (B.Sc.)	Arts, Science and Commerce College Chikhaldara, Amravati	Petrochemical Science, Geology, chemistry	71 %
2011	Class XII Maharashtra State Board of secondary and Higher Secondary Education	Sub. Lt. Vivek Pimplikar Junior College, Subodh high School, Achalpur	English, Hindi Physics, Mathematics, Chemistry, Biology	61.33 %
2009	Class X	Fatima Convent	English, Marathi,	76.30 %

	Maharashtra State Board of secondary and Higher Secondary Education	High School, Achalpur	Hindi, Mathematics, Science and Technology, Social Sciences	
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Courses Detail

B.Sc. in Petrochemical Science, Geology, Chemistry (Introduction to petrochemical Science, Catalysts in petroleum refining and petrochemical processes, Future of Petrochemicals, Pollution control in refineries and petrochemical processing units, Basic Geology, Structural Geology, Crystallography and Mineralogy, Petrology, Paleontology and Stratigraphy, Economic Geology, Geochemistry and Geoexploration, Environmental and Engineering Geology, Geohydrology).

M.Sc. in Geology (Crystallography and Mineralogy, Paleontology, Structural Geology, Remote Sensing and GIS, Introduction to Earth and Planetary Sciences, Igneous and Metamorphic Petrology, Sedimentology, Stratigraphy, Geochemistry, Ore Geology, Geoexploration, Geohydrology, Coal and Petroleum Geology, Environmental and Engineering Geology).

Post-Graduate Dissertation Project in the field of Sedimentology on topic “Quaternary sediments of Manjara river, Beed and Osmanabad area, Maharashtra, India”

PhD in Geology, Petrogenesis of alkaline mafic ultramafic Petrogenesis of the alkaline mafic- ultramafic intrusive rocks from the Sarnu-Dandali alkaline complex, Rajasthan, northwestern India.

Academic Achievements and Experiences

- More than three years teaching experience in UG level.

- Head of Department in Geology, Shivaji Science College from September 2022 onwards
- Life Member of Indian Society of Congress Association.
- Experience of college level committees like Internal Committee, Criterion 7 committee, Coordinator of Environmental studies, Coordinator of Certificate course in Groundwater Exploration (Hydrogeology).
- Examination, evaluation and moderation experience in College and University level.
- Experience of organizing College, National and International Conferences.

Paper Published

- Short-lived alkaline magmatism related to the Réunion plume in the Deccan Large Igneous Province: inferences from petrology, $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology and palaeomagnetism of lamprophyre from the Sarnu-Dandali Alkaline Igneous Complex. (doi.org.10.1144/SP513-2021-34)
- Evidence and timing of metasomatism of the lithospheric mantle before large-scale Deccan magmatism: Insights from the phlogopite–spinel–wehrlite xenoliths from Sarnu–Dandali alkaline igneous complex, Rajasthan, northwestern India. (doi.org/10.1007/s12040-022-01895-0)
- Lithological studies of sedimentary rocks exposed at Wadi village (Jhura Dome), Palanpur area, Kutch main land, Gujrat.
- The study of quaternary sediments of Manjra river, near Chousala, Dist. Beed.
- Quaternary Sediments and Clay minerals of Manjra river near Patoda, Beed District.
- 5th International conference on science and technology for society (ICSTS 2022) dated on 19th - 20th June 2022, titled-Synthesis, Characterization and Biological evaluation of newly synthesized schiff bases.

Talks

- Guest speaker in add on course on soft skill development in Arts Science Commerce college, Chikhaldara.
- Guest speaker in add on course on soft skill development in university level online course on personality development.

Trainings

- e- training on “Basics of Structural Geology” exclusively for SC and ST conducted by RTD, CR, GSITI, Nagpur from 25/03/2021- 27/03/2021.
- March 2018 – Advanced training programme on “Analytical Geochemistry” held at CSIR National Geophysical Research Institute, Hyderabad, India.
- Completed Orientation course from RashtraSant Tukadoji Maharaj Nagpur University, Nagpur during Nov. 23- Dec. 23, 2020.
- Refresher course: UGC – Sponsored Refresher Course In Environmental Sciences (Inter/Multi-Disciplinary) under the university grants commission human resource development center Goa university held from 09-22 November 2021.
- Attended NAAC awareness program for Affiliated Colleges, Organised by IQAC, Shri. Shivaji Arts and commerce college, Amravati on 22 May 2020.
- E-training on “Basic course on Mineral prospecting and Exploration, Resource estimation techniques, UNFC, Amended MMDR Act2015, NMEP and NMP” conducted by RTD, CR, GSITI, Nagpur from 8- 13 June 2020.
- Faculty Induction Program (FIP) organized by HRDC UGC center RTMNU from 5- 20 December 2020.

Seminar/ Conferences

- Presented paper on Study of quaternary sediments and clay minerals of Manjara River near Dighul, Beed District in International conference on Recent Trends in Multidisciplinary Research, 14-15 January 2023.
- Paper presented on 108 Indian Science congress 3rd - 7th January 2023 entitled Mineralogy and Geochemistry of Lamprophyre Dyke.
- Poster presentation: Conference on Innovation for women empowerment and gender equality for sustainable future (ICIWEGESE 2023) organized by women development cell Dr. Ambedkar College, Deekshabhoomi Nagpur, 10th - 11th March 2023.

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- Participated in the e-International conference on “Queen of Era-2021” held on 23 March 2021, G.S. Tompe Arts, Commerce and Science College, Chandur Bazar, Dist. Amravati, Maharashtra.
- Participated in the National Webinar on “Geomagnetic field on Geosciences” conducted by the Department of Geosciences, Dr. B. R. Ambedkar University, Etcheria, Srikakulam on 4 September 2020.
- October 2018 – Poster titled “Mineralogy of Lamprophyre dyke occurrence from the Sarnu- Dandali alkaline complex of the northwestern India” in the National Conference on Advances in Mantle Petrology, Department of Geology, Centre of Advanced Study, Institute of Science, BHU, Varanasi, India.

Work Experience

- Member of organizing committee-National conference on research innovations in ICT and computing technologies (NCRIICT 2023) on dated 27th-28th March 2023
- Organizing Secretary: International Conference on Recent Trends in Multi-Disciplinary Research (ICRTMR-2023) on dated 14th-15th January 2023.
- Guest of Honour- Invited by Art’s, Science and Commerce College, Chalkhaldara for hosting the National Flag on 15th August 2022.
- Organized Geology Exhibition in College level.
- November 2015 – Attended “XXV Indian Colloquium on Micropaleontology and Stratigraphy” held at Government Institute of science Aurangabad, India.

Analytical and Laboratory Works

I have worked with various analytical techniques/ instruments (polarizing microscope, XRD, rock cutting instrument, rock drilling instrument, rock magnetic and paleomagnetic instruments).

Areas of Interest

My research orientation leans towards Earth and Planetary Sciences, and I am highly interested in igneous petrology, geochemistry, and mineralogy.

Geological Field Trips

Year	Days	Area	Supervisor
2023	6	Gokak, Karnataka	Prof. D. C. Meshram
2022	1	Sausar group, near Nagpur area	Training and Placement committee, GSI nagpur
2022	1	Ramtek, Nagpur	
2021	1	Kachargadh Caves, Gondia, Maharashtra	
2020	1	Fluorite mine, Dongargaon, Maharashtra	
2020	1	Koradi area, Nagpur, Maharashtra	
2018	7	Sarnu-Dandali Rajasthan, Northwestern India	Dr. Ashish Dongare Prof. D.C. Meshram
2016	3	Beed and Osmanabad, Maharashtra, India	Dr. K.M. Wanjarwadkar
2015	12	Mount Abu and nearby area, Rajasthan, India	Dr. K.M. Wanjarwadkar
2014	1	Ankai mountain, Nashik, Maharashtra, India	Dr. K.M. Wanjarwadkar Dr. Mohan Sonar
2013	1	Salbardi, Maharashtra, India	Mr. Digvijay Patil

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Computer Proficiency

My software skill includes Microsoft Office (Word, Excel and Power Point), Corel Draw, Google map, Triplot etc

Scholastic Achievements

- Qualified SET examination (2017) conducted by Savitribai Phule Pune University, Maharashtra, India.
- Achieved 3rd rank in M.Sc. (2016) Geology from university of Dr. Babasaheb Ambedkar Marathwada University, Aurangabad.
- Secured 1st rank in M.Sc. (2016) Geology from Government Institute of Science Aurangabad.
- Secured 1st rank in B.Sc. (2014) Petrochemical Science from Arts, Science and Commerce College Chikhaldara.

Extra Curricular Activity

- I have participated in each school level program as sports, dance, arts, camp activities.
- I participated in every programme of the Department of Earth & Planetary Sciences, University of Aurangabad.
- Secured Brown's medal in Lalitkala National level drawing competition.
- Secured "A" in Elementary Drawing Competition
- Secured "B" in Intermediate Drawing Competition.
- Ranked 3rd Division level Dish Throw.
- Participated in NSS.
- Participated in Scout and Guide.
- Participated in youth Festival

Hobbies

Painting, drawing, visiting historical places, watching movies.

Language Skills

English (Read/Write/Speak), Hindi (R/W/S), Marathi (R/W/S), Korku (R/W/S).