Dr. KEERTHY SURESH
Vilayil Veedu
Durga Devi Temple
Road
Kannamba
Varkala P.O 695141
Trivandrum, India
Mobile No: +91 8089408468
Email id: keerthysiva98@gmail.com

CAREER OBJECTIVE

To secure a challenging position in a reputable organization to expand my learnings, knowledge and skills

RESEARCH AREA OF INTEREST

1) Petrology
2) Impact Cratering Process

EXPERIENCE

1) Worked as **Adhoc Assistant Professor**, Civil Engineering Department, L.B.S. Institute of Technology for Women (A Government of Kerala Undertaking).

2) Worked as **Project Fellow** in Agriculture and Ecosystem Management Group (AGES) for the preparation of GIS based thematic maps as part of Water Security Plan for various GramaPanchayats of Kerala under the Jalanidhi Project.

3) Submitted PhD thesis in Geology on the topic **"Geology and Geomorphology of Dhala Crater, Madhya Pradesh, India"** (Planetary Geosciences), under the Guidance of Dr. K S Sajinkumar (Assistant Professor, Department of Geology, University of Kerala).

4) Worked as Research Associate in **ISRO sponsored project** entitled 'A systematic study on the landslides on Valles Marineris using data of varying resolution and scales'.

5) Worked as **Guest Lecturer** in S.N College, Chempzhanthy.

6) Worked as **Guest Lecturer** in S.N College, Varkala.

RESEARCH EXPERIENCE

1) Carried out MSc dissertation on the topic **"Syenites of Mangalamkunnu, Tamilnadu: field relation, petrography and metamorphism"** under the Guidance of Dr. A.P. Pradeepkumar (Associate Professor and Head of the Department of Geology, University of Kerala).

2) Carried out a mini project on the topic **"Climatic history of Phanerozoic Era"** under the Guidance of Dr. Rajesh Raghunathan (Assistant Professor, Department of Geology, University of Kerala).

PUBLICATIONS

1) **Keerthy, S.,** Vishnu, C.L., Li, S.S., Reshma, N., Praveen, M.N., Oommen, T., Singh, S.P. and Sajinkumar, K.S. (2019). Reconstructing the dimension of Dhala Impact Crater, Central India, through integrated geographic information system and geological records. Planetary and Space Science 177, 104691.

2) Vishnu, C.L., Sajinkumar, K.S., Oommen, T., Coffman, R.A., Thrivikramji, K.P.,Rani,V.R.and **Keerthy, S.** (2019). Satellite-based assessment of the August 2018 flood in parts of Kerala, India, Geomatics, Natural Hazards and Risk, 10(1), 758-767.

3) Li, S.S., **Keerthy, S**., Santosh, M., Singh, S.P., Deering, C., Satyanarayanan, M., Praveen, M.N., Aneeshkumar, V., Indu, G.K., Anilkumar. Y. and Sajinkumar. K.S. (2018). Anatomy of impactites and shocked zircon grains from Dhala reveals Paleoproterozoic meteorite impact in the Archean basement rocks of central India. Gondwana Research 54, 81-101.

4) Sajin Kumar, K.S., Bincy, H.S., Bouali, E.H., Oommen, T., Vishnu, C.L., Anilkumar, Y., Thrivikramji, K.P. and **Keerthy, S.** (2020). Picturing beach erosion and deposition trends using PSInSAR: an example from the non-barred southern west coast of India, Wet Ecology and Management, DOI 10.1007/s11273-020-09706-3.

5) Saranaya ,R.C., James, S., Santosh, M., Cheng-Xue Yang., Cun Zhang., Rajesh V.J., Satyanarayanan, M., Praveen, M.N., Anilkumar, Y., Singh S.P., **Keerthy, S** and Sajinkumar, K.S. (2021). Geochemical and geochronological evidence of meteorite impact excavating the Archean basement at Lonar Crater, Central India, Lithos 404-405 (106479).

6) Indu, G.K., James, S., Saranaya ,R.C., Aneeshkumar, V., **Keerthy, S**., Oommen, T. and Sajinkumar. K.S. (2022). Deriving a denudation index for terrestrial meteorite impact craters using drainages as proxies. Geomorphology 397 (108007).

INTERNATIONAL PRESENTATIONS

1) Keerthy, S., Sajinkumar, K.S and Vishnu, C.L. (2019). Creating sub-surface morphology of buried impact craters using integrated GIS and geological records. Young Scholars Congress; University of Kerala, Thiruvananthapuram, 16th and 17th March 2019.

2) Keerthy, S., Sajinkumar, K.S and Vishnu, C.L. (2019).Picturing sepulchered meteorite impact craters using integrated GIS and geological record. 2nd International Conference on Geology: Emerging Methods and Applications (GEM 2019), Department of Geology and Environmental science, Christ College Irinjalakuda, 17th-19th January 2019.

INTERNATIONAL POSTER PRESENTATION

1) Keerthy, S. and Sajinkumar, K.S. (2016). The Dhala Crater Madhya Pradesh, India: Impact crater or volcanic caldera? 13th International conference of International Association of Gondwana Research (IAGR), Trivandrum, 18thto 22nd November 2016.

NATIONAL PRESENTATIONS

1) Keerthy, S. and Sajinkumar, K.S. (2018). Potential evidences for meteorite impact at Dhala, Central India. 5th National conference on Shear zones and crustal blocks of southern India, University of Kerala, 15th to 16thFebruary 2018.

2) Keerthy, S., Sajinkumar, K.S. and Vishnu, C.L. (2018). Reconstruction of Dhala Crater, Central India, using integrated approaches. National seminar on Advances in Earth and Environmental Sciences, Department of Geology, University of Kerala, 15th October 2018.

ACHIEVEMNTS AND SKILLS

1) Qualified National Eligibility Test **(NET)** conducted by University Grant Commission **(UGC)** in December 2018.

2) Qualified State Eligibility Test **(SET)** conducted by Directorate of Higher Secondary Education, Government of Kerala in January 2016.

3) Secured**1st rank** in BSc Geology

4) Secured**3rd rank** in MSc Geology

5) Carried out a 5-day field work on **'Rock art of Kerala and associated landscape'**, organized by the Indira Gandhi National Centre for Arts (IGCNA), in some of the important geo-archeological sites in south Kerala and Kanyakumari district.

6) Carried out geological field work in various confirmed, unconfirmed and suspected impact craters like Cuddapah, Andhra Pradesh; Lonar, Maharashtra; Luna and Girnar, Gujarat; Dhala, Madhya Pradesh.

TRAINING PROGRAMME ATTENDED

1) Participated a 3 day workshop on '**Field techniques in geological mapping**' held on 13th to 15th March 2019, conducted by department of geology, University of Kerala.

2) Attended a five day MHRD sponsored GIAN course on '**Computational Geosciences: Data to Information to Decision'** from 2-6 July 2018 organized in the Department of Geology, University of Kerala.

3) Participated in an international conference on "**Water Resources: Innovations in Quality and Quantity, Sustainable development challenges and Management**" **(ICWR-2018)**held on 15th to 17th March 2018, jointly organized by Department of Environmental Sciences and Department of Geology, University of Kerala, India.

4) Attended 2 day workshop on "**OGC-Standard Background-Theory- Practice"** at Department of Geology, University of Kerala on 5 & 6 March 2018, lead by Prof. Dr. Ing.Franz-Joeph Behr, Stuttgart University of Applied Sciences, Germany.

5) Participated a national workshop on 'Current trends in Earth System Sciences (CTESS-2018) on the topic **"Analysis of Deformed rocks using Anisotropy of Magnetic Susceptibility (AMS)- fundamentals and applications"** held on 3-4 March, 2018, in University of Kerala.

6) Participated a second national seminar on **"Geospatial Information systems: emerging trends and utility"** held on 14th& 15th December 2017, Organized by University of Kerala.

7) Attended two workshops in the Indian Institute of Technology – Kharagpur, India on

a. **Mohr circle simplified (21 October 2016)**
b. **Modern methods of fabric analysis in deformed rocks (22 October 2016)**

8) Participated in the workshop on **"Computational Geotechnics and soil dynamics"** sponsored by TEQIP-II conducted at LBS Institute of Technology for Women, Thiruvananthapuram, held on 23rd TO 25th December 2015.

9) Participated 3 day national seminar cum marine cruise entitled '**Marine survey and sampling techniques'** organized by Transect, a NGO based at Trivandrum.

EDUCATIONAL BACKGROUND

Sl No	Courses Passed	University/Institution/Board	Year of Passing	Percentage
1	PhD	UNIVERSITY OF KERLA	2020	
2	MSc Geology	UNIVERSITY OF KERLA	2014	80
3	BSc Geology	UNIVERSITY OF KERALA	2012	87
4	HSC	KERALA STATE HIGHER SECONDARY EDUCATION	2009	81
5	SSLC	KERALA STATE SECONDARY EDUCATION	2007	86

COMPUTER AND SOFTWARE SKILLS

1) Excellent knowledge in Arc GIS
2) Basic Knowledge in QGIS

3) Experience on XRD and XRF instrumentation

DECLARATION

I hereby declare that, all the above information is true and genuine to the best of my knowledge.

Thiruvananthapuram
03-05-2022 KEERTHYSURESH