



Department of Geology
Faculty of Science / University of Peradeniya



Dr. Dilan M. Ratnayake

BSc (Perad.), PhD (Okayama)

Senior Lecturer

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About Me

I trained as a stable-isotope geochemist and astrobiologist during my PhD and postdoctoral research at Okayama, Japan (2019-2025). I have extensive experience in clean-room geochemical analysis and in developing precise analytical techniques using mass spectrometry. My research covers petrology, analytical chemistry, cosmochemistry, and astrobiology. I am particularly interested in understanding how Earth's geochemical evolution has influenced the development of life, and how life, in turn, has shaped geochemical processes. As a senior lecturer, I strive to help students develop critical thinking skills and address complex research questions through a multidisciplinary approach.

Higher Education Qualifications



PhD

Okayama University
Japan
(2024)



BSc

University of Peradeniya
Sri Lanka
(2017)

Awards, Scholarships, Memberships & Fellowships



Okayama University Science, Technology, and Innovation Creation Fellowship - 2023

Positions Held

-  Member, Faculty Web Committee, Faculty of Science, University of Peradeniya- (25th November 2025 - Present)
-  Senior Lecturer (Grade ii) (University of Peradeniya)- (01st November 2025 - Present)
-  Visiting Lecturer (Env. Sci MSc Program, PGIS, University of Peradeniya)- (July 2025 - Present)
-  Co-Coordinator MSc in Disaster Management- (July 2025 - Present)
-  Member, Board of Study, Earth Science, PGIS, University of Peradeniya- (09th July 2025 to present)
-  Temporary Lecturer (University of Peradeniya)- (08th June 2025 - 31st October 2025)
-  Post Doctoral Fellow (Okayama University)- (April 2024- March 2025)

My Teachings

- ACL4001: Environmental Archaeology
- ENS511: Geological Environment
- GEO2052: Economic Geology
- GEO2082: Photogeology
- GEO3042: Igneous Petrology
- GEO3093: Analytical Techniques in Geology
- GEO3132: Advanced Economic Geology

Research Interests (Research Fields/ Projects)

Geochemistry, Astrobiology, Geobiology, Metamorphic Petrology

Ongoing Research and Projects



Nothing to show under this subheading !!!

Key Publications



Nothing to show under this subheading !!!

Conferences



Nothing to show under this subheading !!!

My Publications

Please goto the website.

<https://sci.pdn.ac.lk/geology/staff/Dilan-Rathnayake>