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)

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Awards, Scholarships, Memberships & Fellowships

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

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Positions Held

- 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)
- Co-Editor JGSSL- (2025-present)

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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

Reconstructing Ancient Bloomery Iron Smelting in North Central Sri Lanka: An Integrated Archaeometallurgical and Computational Approach

URG/SCI/2026/1

pH-Dependent Passive Uptake of Hydrofluoric Acid by Proximal Tubular Cells: Implications for Tubular Injury under Dehydration and Heat Stress and Its Relevance to CKDu in the Dry Zone of Sri Lanka

291_MRG_2026

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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

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