Ugnė Birmanaitė

CONTACT INFORMATION

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EDUCATION AND ACADEMIC DEGREE

2025 – now	Natural Sciences, Geology (N005) PhD study (Vilnius University and Nature Research Centre). Research theme: “Role of fluids for the rock and ore formation in the Varena Iron Ore deposit and its surroundings (supervisor dr. Laurynas Šiliauskas) Research interests: metamorphic petrology, geochemistry, fluid chemistry
2023 – 2025	Vilnius University, Geology / Master degree. Master thesis title: “Relationship between metamorphism and tectonic settings in the Precambrian rocks of Western Lithuania”. Scientific supervisor: dr. Gražina Skridlaitė. Research interests: metamorphic petrology, crystalline basement, West Lithuanian Granulite domain, granulites, geochemistry.
2019 – 2023	Vilnius University, Geology / Bachelor. Bachelor thesis: “Peak conditions (P-T) in the Precambrian rocks of Lauksargiai-1 drillcore: mineral composition and phase equilibria modelling”. Scientific supervisor: dr. Gražina Skridlaitė. Research interests: metamorphic petrology, P-T pseudosections, crystalline basement, West Lithuanian Granulite domain, granulites.

PROFESSIONAL EXPERIENCE

2024 10 – now	**Chief Specialist** Division of Bedrock and Petroleum Geology, Lithuanian Geological Survey under Ministry of Environment
2023 06 – 2024 10	**Chief Geologist** Division of Bedrock and Petroleum Geology, Lithuanian Geological Survey under Ministry of Environment
2022 11 – 2023 06	**Senior Geologist** Division of Bedrock and Petroleum Geology, Lithuanian Geological Survey under Ministry of Environment
2022 09 – 2022 12	**Intern** Laboratory of Bedrock Geology, Nature Research Centre

RESEARCH INTERESTS

Field of research: fluid-rock interaction during metamorphic processes and its relation to ore formation. The chemical evolution of minerals, and the mechanisms controlling element solubility, transport and re-deposition within the crystalline basement rocks of Lithuania.
Applied methods: petrographic analysis (macroscopic and microscopic), microstructural and mineral chemical analysis using a scanning electron microscope (SEM-EDS, CL), whole-rock chemical composition (isocon method), and determination of metamorphic parameters (pressure, temperature, oxygen fugacity, fluid salinity) using mineral chemistry, geothermobarometry and thermodynamic modelling (phase equilibrium diagrams constructed with Perple_X software) in a closed and an open system.

INTERNSHIP AND TRAINING

2023 01-30/ 02-02	Winter School on Understanding Deep Crustal Processes (University of Padova (UNIPD) and University of Lausanne (UNIL), Padova, Italy)

PARTICIPATION IN SCIENTIFIC CONFERENCES

National scientific conferences:

1. **Birmanaitė U.**, Skridlaitė G. 2022. *Peak Conditions (P-T) in the Precambrian Rocks of Western Lithuania: Mineral Composition and Textural Characteristics - 8th Annual Conference of PhD Geology Students*, December 19, Vilnius, Lithuania.