

SZYMON MIANOWSKI

EDUCATION

Master of Science degree in Geology with specialization in geochemistry, mineralogy and petrology [Jagiellonian University]
[2019 - 2021]

Thesis: "Petrology and geochemistry of Krakowiec clays (Carpathian Foredeep) on the example of Gacki profile, near Szydłów area". **Supervisor:** dr hab. Patrycja Wójcik-Tabol, Prof UJ.

I characterized depositional environment of the Miocene clay sediments interlayered with gypsum rich intervals using microscopic observations and geochemical data. I conducted phase identification, major and trace element analysis as well as maceral analysis utilizing fluorescence, scanning electron microscope (SEM) imaging, petrographic and field studies.

Geochemical proxy data and microscopic analysis suggested that the basin's water column was mainly well oxygenated, however, dysoxic periods in the sediment also occurred which was most likely associated with temperature oscillations in Paratethys basin at the end of Miocene. I showed the geochemical and mineralogical variability that indicated significant and periodic changes in water chemistry at the declining phase of development of the basin. In addition, maceral data showed significant supply of organic elements from land while primal production in basin was mostly algal-derived which was confirmed by geochemical proxy data indicated that examined part the basin might have been partially or fully limited from the vicinal basins.

Bachelor degree in Geology [Jagiellonian University]
[2015 - 2019]

Thesis: "Siliciclastic sediments of the Middle Miocene in the Szydłów area: stratigraphy, paleontology and environment of deposition". **Supervisor:** dr Michał Stachacz.

I determined stratigraphy and environmental conditions of the Miocene deposits in Szydłów Region of the Western Carpathians using foraminiferal fauna. My work included chemical dispersion and separation of microfossils from residual rock, optical microscopy and scanning electron microscope imaging.

Postgraduate Studies. Data Science: [AGH University of Science and Technology]
[10/2023 - Present]

I use statistical and programming tools (e.g. Python, R, Statistica and Clementine) to analyze various type of datasets including atmospheric and solar data from National Oceanic and Atmospheric Administration (NOAA) and population data.

Scholarship
[02/2018 - 06/2018]

I visited Geological Engineering Faculty at Muğla Sıtkı Koçman University in Turkey where I studied geothermal systems, industrial minerals and gemology.

PROFESSIONAL CAREER

Institute of Geological Sciences, Polish Academy of Sciences [Technician in Geochronology and Isotope Geochemistry Laboratory]
[12/2023 - Present]

I am responsible for the maintenance of laser ablation and mass spectrometers (ICP-MS, MC ICP-MS). I also support research projects performing trace element and isotope composition analyses. Additionally, I carry out sample preparation in ultra-clean chemistry laboratory. I operate analytical software such as MassHunter, Qtegra, GeoStar and partially handle

Partner Engineering and Science [Environmental Scientist]

PERSONAL PROFILE

I am an aspiring researcher looking for new opportunities for growth in the scientific field.

My research interests include geochemistry, chemistry of isotopes, paleontology, environmental geology, paleoanthropology, micropaleontology, and data analysis in earth sciences.

SKILLS

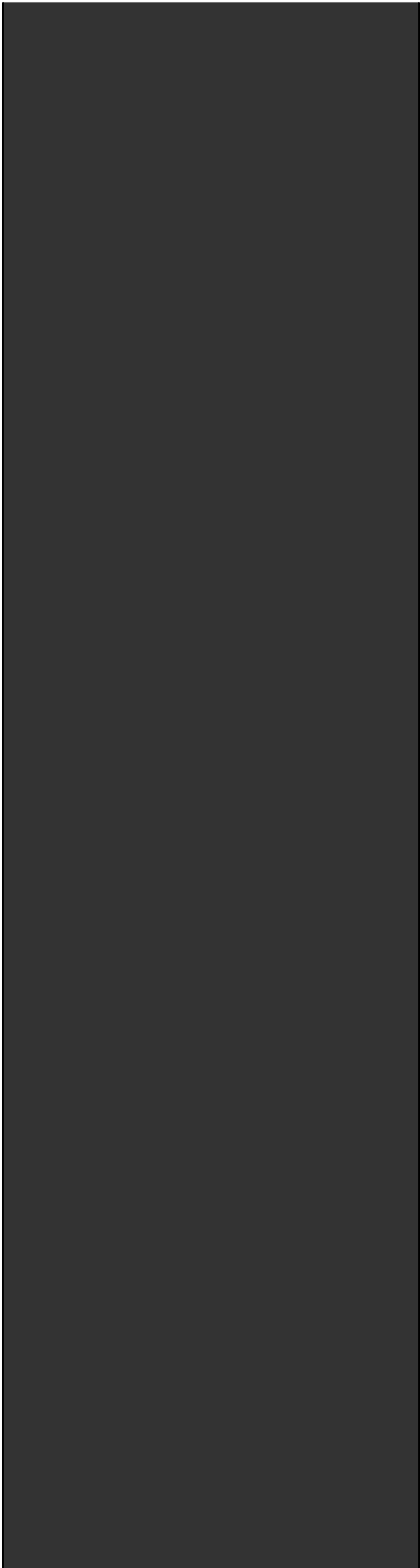
Software handling: ERIS (Environmental Risk Information), QGIS, CorelDRAW, Profex (Mineralogical Analysis), Past 4 (Statistics), Statistica, MS Office Basics in: Python, R, SQL
Geological mapping,
Micropaleontological analysis

LANGUAGES

Polish: Mother tongue
English: B2+, I also hold FCE (First Certificate in English)
German: Beginner

PERSONAL INTERESTS

Cinematography, biking, scuba diving, electronics, paleontology, evolution, paleoecology, information technologies, geochemistry, history of life



[06/2022 - 11/2023]

Conducting research and writing environmental assessment reports in English, mainly for the US and Western European market, using ERIS (Environmental Risk Information Services) tools, GIS, geochemical analysis, drilling samples and other environmental reports. Performing environmental risk analysis based on historical sources and satellite data

OTHER WORK ACTIVITIES

Camgrain [Site Operator]

[07/2015 - 09/2015, 07/2016 - 08/2016, 07/2019 - 09/2019, 07/2020 - 09/2020]

Seasonal work to operate a logistics center mediating storage and quality control of crops in Cambridge County, United Kingdom

Entropia/Skwer [Bartender]

[2015 - 2021]

Work in customer service in Krakow restaurants. Management and maintenance of a functioning establishment with occasional maintenance works.