Mateusz Mieczyslaw Michailow

Date of birth: 03/01/1992 | **Gender**: Male | **Nationality:** Polish |

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EDUCATION AND TRAINING

01/11/2022 – CURRENT, Modena (Italy)

PHD STUDENT IN "MODELS AND METHODS FOR MATERIAL AND ENVIRONMENTAL SCIENCES" (XXXVIII CYCLE)

Department of Chemical and Geological Sciences - University of Modena and Reggio Emilia
Address: Via Giuseppe Campi 103, Modena (Italy)

Thesis: *Volatile distribution in Earth's mantle heterogeneities: implications for the global mantle convection.*

01/12/2020 – 21/09/2022, Modena (Italy)

MASTER'S DEGREE IN GEOSCIENCES, GEOHAZARDS AND GEORESOURCES
Final Grade: ***110/110 cum laude***

Department of Chemical and Geological Sciences - University of Modena and Reggio Emilia
Address: Via Giuseppe Campi 103, Modena (Italy)

Thesis: *Abundance and isotopic distribution of H-C-S-Cl-F volatile species in Mid Ocean Ridge Basalts from the Equatorial Atlantic.*

Subjects of interest: Global geological events, Integrated Stratigraphy and Astrochronology, Geo-energies, Paleoclimatology, Technical English for geosciences, Natural raw materials, Groundwater resources, Global tectonics and sedimentary basins, Geoheritage and Global Geoparks, Petrology and Volcanology, Environmental mineralogy, Advanced isotope geochemistry, Geothematic surveying and cartography, Detection of crystalline rocks.

Type of Credits: CFU | **Number of Credits:** 120 | **Level in EQF:** EQF level 7

25/09/2018 – 21/10/2020, Modena (Italy)

BACHELOR'S DEGREE IN GEOLOGICAL SCIENCES
Final Grade: ***110/110 cum laude***

Department of Chemical and Geological Sciences - University of Modena and Reggio Emilia
Address: Via Giuseppe Campi 103, Modena (Italy)

Thesis: *Dinosaur tooth enamel geochemistry as an indicator of Late Cretaceous physiology and diet.*

Subjects of interest: General chemistry, Geomorphology, Physical geography and Cartography, General geology with field activities, Mathematics and information technology, Sedimentary Geology, Geophysics, English, Structural geology and tectonics, Paleontology I, Paleontology II, Geomorphological Cartography and GIS, Mineralogy I, Mineralogy II, Applied Geology, Sedimentology, Paleoecology and Facies Analysis, Regional geology, Petrography, General Physics.

Type of Credits: CFU | **Number of Credits:** 180 | **Level in EQF:** EQF level 6

WORK EXPERIENCE

03/04/2022 – 31/05/2022, Woods Hole (United States)

THESIS INTERNSHIP - NORTHEAST NATIONAL ION MICROPROBE FACILITY (Director G. Gaetani)

Woods Hole Oceanographic Institution
Address: 360 Woods Hole RD, Falmouth, Massachusetts 02543 (United States)

- Volatile (CO_2, H_2O, S, Cl, F) and isotope ($\delta^{37}Cl$, $\delta^{34}S$, $\delta^{2}H$) analyses by Secondary Ion mass spectrometry (SIMS) techniques, using a CAMECA IMS 1280 on submarine basaltic glasses collected during the SMARTIES 2019 campaign in the Equatorial Atlantic.
- Sample preparation and creation of indium mounts, gold coating using a SPIMODULE Sputter Coater.
- Sample analyses by reflected light microscope and a Hitachi TM 3000 Scanning Electron Microscope (SEM).
- Data analyses using Petrolog, SolEx and Excel.

01/12/2020 – 21/09/2022, Modena (Italy)

CURRICULAR INTERNSHIP

Department of Chemical and Geological Sciences - University of Modena and Reggio Emilia
Address: Via Giuseppe Campi 103, Modena (Italy)

- Preparation of samples with the creation of polished sections (embedding of the samples in epoxy resin, cutting and polishing) of dinosaur teeth fragments from northern Montana (United States).
- Analysis of samples with the Scanning Electron Microscope (SEM).
- Data analyses, bibliographic research, and compilation of a $\delta^{44/40}Ca$ isotope database.

LANGUAGE SKILLS

Mother tongue(s): **POLISH**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ITALIAN	C2	C2	C2	C2	C2
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Good knowledge of Microsoft Office suite | Familiarity with Petrolog and SolEx | Good knowledge of Photoshop and Illustrator | Good knowledge of Geographic Information Systems (QGIS, ArcGIS) |

COMMUNICATION AND INTERPERSONAL SKILLS

COMMUNICATION SKILLS

Good communication skills acquired during the achievement of the bachelor's degree in Geological Sciences and further developed during the master's degree in Geosciences, Geohazards and Georesources.

ORGANISATIONAL / MANAGERIAL SKILLS

Good analysis and problem-solving skills with excellent organizational skills gained following the study of scientific subjects. Good teamwork and multicultural teamwork skills.

ADDITIONAL INFORMATION

AWARDS

01/02/2022, Modena (Italy)

WINNER OF A PAID INTERNSHIP AT THE NORTHEAST NATIONAL ION MICROPROBE FACILITY (WHOI)
Woods Hole Oceanographic Institution – Massachusetts (United States), director Dr. G. Gaetani.

Selective online interview with Dr. Glenn Gaetani on 01/02/2022.
Duration of the internship: 8 weeks.

16/12/2021, Modena (Italy)

WINNER OF THE "ERASMUS PLUS" SCHOLARSHIP FOR THE ACADEMIC YEAR 2021/2022 (REFUSED)
Department of Chemical and Geological Sciences, University of Modena and Reggio Emilia (Italy)

PUBLICATIONS

GUESS WHO'S COMING TO DINNER: CA ISOTOPES AND TRACE ELEMENTS OF DINOSAUR TOOTH ENAMEL FROM THE LATE CRETACEOUS OF MONTANA
Mateusz M. Michailow, Francesco Della Giustina, Anna Cipriani, Annalisa Ferretti, Denver Fowler, Liz Freedman Fowler, Federico Lugli, Daniele Malferrari, Michael Weber, Thomas Tütken.

Abstract presented with poster at the 9th International Bone Diagenesis Meeting, 21-24 September 2021, University of Evora, Portugal.

FIELDWORK EXPERIENCE

GEOLOGICAL SURVEY AT THE REGIONAL PARK OF SASSI DI ROCCAMALATINA (MO)

- Identification of the dominant lithotypes of the area and measurements of geological structures.
- Identification and characterization of geological contacts, tectonic faults, landslides, springs, and wells.
- Characterization of lithotechnical properties of the identified lithotypes.
- Creation of five thematic maps (geological, geomorphological, hydrogeological, lithotechnical, effective rainfall) with the use of geographic information system (GIS - QGIS).

GEOLOGICAL SURVEY AT THE PERIDOTITE OUTCROP OF BALMUCCIA (VC) - SESIA-VAL GRANDE UNESCO GLOBAL GEOPARK

- Identification of the dominant lithotypes of the area.
- Petrological and temporal classification of identified chromium-diopside and aluminium-augite intrusions.
- Measurements of geological structures (direction, immersion, inclination).
- Mineralogical analysis of thin sections, data analysis using Stereonet, geothermobarometric calculations using Excel.

In compliance with the Italian legislative Decree no.196 dated 30/06/2003 and the EU GDPR 201 6/679, I hereby authorize you to use and process my personal details contained in this document.

Modena, 27/11/2022

Mateusz M. Michailow