



Dan Mircea Tămaş

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ABOUT ME

With over 12 years of work experience in geology, I am a Lecturer and a Research Project Lead at Babeş-Bolyai University, where I teach and mentor students, conduct and supervise research projects, and publish scientific papers. I have a Ph.D. in Geology, with a focus on structural geology and salt tectonics. I am passionate about exploring the geological history and deformation of salt and other rock formations as well as the importance of geosciences to the energy transition. My goal is to continue to pursue excellence in geology research and education, and to inspire and support the next generation of geologists.

WORK EXPERIENCE

Department of Geology, Faculty of Biology and Geology, Babes-Bolyai University – Cluj-Napoca, Romania

Lecturer

[02/2022 – Current]

Along with research, scientific outreach and mentoring, I teach at both bachelor and master levels. The disciplines I teach are Geophysics (BSc), Hydrocarbon Geology (BSc), Hydrocarbon Exploration (MSc), Alternative Energy Resources (MSc) and various field courses from undergrad levels to industry experts.

Department of Geology, Faculty of Biology and Geology, Babes-Bolyai University – Cluj-Napoca, Romania

Research project manager

[15/08/2019 – Current]

Coordinating research projects and contracts with national (e.g., UEFISCDI, OMV Petrom) and international funders (e.g., Doctors Without Borders, OMV Austria). The projects include analogue modelling, geophysical data interpretation, creation and interpretation of 3D models of outcrops, creation of 3D models and reconstructions, traditional and drone-based geological field mapping, and consultancy on various topics.

Department of Geology, Faculty of Biology and Geology, Babes-Bolyai University – Cluj-Napoca, Romania

Researcher

[09/2020 – 08/2022]

My main roles within this project are related to: structural geology, geological mapping, 3D modeling, creation and interpretation of 3D outcrops, analyses and mappings using drones and multispectral sensors.

Project title: Geochemistry of gas emissions from the volcanic-tectonic environment of the Eastern Carpathians: geological and social impact

Project director: Senior Lecturer Dr. Boglarka-Mercedesz Kis

Funder: UEFISCDI

□ *Department of Geology, Faculty of Biology and Geology, Babes-Bolyai University – Cluj-Napoca, Romania*

Reserach assistant

[01/11/2017 – 14/08/2019]

Research in fields such as analogue modelling, geophysical data interpretation, creation and interpretation of 3D models of outcrops, creation of 3D models and reconstructions, traditional geological field mapping and drone-based mapping.

□ *OMV Petrom S.A. UA-Development, Departament Ingineria Petrolului – București, Romania*

Geologist

[07/2016 – 10/2017]

Utilizing geophysical data (e.g., 2D and 3D reflection seismic), well logging, cores, sieve samples, and production data to create geological sections, structural maps, structural 3D models, 3D property models, and reservoir studies, to estimate hydrocarbon volumes, and to propose new wells. To accomplish all these interpretations and models, I have used applications/software such as: Petrel, OpendTect, Move 3D, ArcGIS, QGIS, OFM (Oil Field Manager), etc.

□ *OMV Petrom S.A. UA-Development, Departament Ingineria Petrolului – București, Romania*

Junior Geologist

[07/2013 – 06/2016]

Utilizing geophysical data (e.g., 2D and 3D reflection seismic), well logging, cores, sieve samples, and production data to create geological sections, structural maps, structural 3D models, 3D property models, and reservoir studies, to estimate hydrocarbon volumes, and to propose new wells.

EDUCATION AND TRAINING

Advanced Postdoctoral Research

Department of Geology, Faculty of Biology and Geology, Babes-Bolyai University [01/03/2020 – 28/02/2022]

Address: Str. Mihail Kogalniceanu, Nr. 1, 400084 Cluj-Napoca (Romania)

PhD in Geology

Babes-Bolyai University, Școala Doctorală de Geologie Teoretică și Aplicată [10/2014 – 02/2019]

Address: Str. Mihail Kogalniceanu, Nr. 1, 400084 Cluj-Napoca (Romania) | **Field(s) of study:** Geologie | **Final grade:** Summa cum laude | **Thesis:** Salt Tectonics in the Eastern Carpathian Bend Zone, Romania (Tectonica sării în zona de curbură a Carpaților Orientali, România)

The goal of the doctoral thesis was to understand the evolution of salt diapirs and salt tectonics in the bending area of the Eastern Carpathians by using geophysical data (e.g., 2D and 3D reflection seismic), well-logging data, core samples, and sieve samples to produce geological cross-sections, structural maps, and 3D structural models. To assist and support the interpretation process of the depth data, analog modeling experiments were carried out in parallel. All these data were integrated into industry-specific software (Petrel, OpendTect, Move 3D, ArcGIS, etc.) and were used to create new structural models for the area of interest, providing a new perspective on the structural evolution of the region.

The doctoral degree was awarded by *O.M.E.N. nr. 4193/29.05.2019.*

Masters in Geology

Department of Geology, Faculty of Biology and Geology, Babes-Bolyai University [10/2011 – 07/2013]

Address: Str. Mihail Kogalniceanu, Nr. 1, 400084 Cluj-Napoca (Romania)

Bachelors

Department of Geology, Faculty of Biology and Geology, Babes-Bolyai University [10/2009 – 07/2011]

Address: Str. Mihail Kogalniceanu, nr. 1, 400084 Cluj-Napoca (Romania)

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING C2 **READING** C2 **WRITING** C2

SPOKEN PRODUCTION C2 **SPOKEN INTERACTION** C2

Spanish

LISTENING A2 **READING** A2 **WRITING** A1

SPOKEN PRODUCTION A1 **SPOKEN INTERACTION** A1

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

PUBLICATIONS

Publications indexed in international databases Author of 21 articles, 17 of which are indexed in Web of Science (see publication list).

Books and book chapters One chapter (first author) in a book published by Springer (see publication list).

CONFERENCES AND SEMINARS

Conference and seminar participations Over 50 participations in conferences and scientific communication sessions (see publication list).

PROJECTS

Principal Investigator / Project Manager of projects, grants, contracts PI of 21 projects/grants/contracts, for example:2024 *SAFE-T - Salt As the Future of Energy Transition. Is Romanian salt an option for storing hydrogen, other resources or waste?* Funding Source: UEFISCDI (PN-IV-P2-2.1-TE-2023-0402)2023 *Optimization of drone data acquisition and processing* Funding Source: Doctors Without Borders2022 *Tectonic inversion and its impact on exploration projects* Funding Source: OMV Petrom S.A.2022 *RISE - The Role and Influence of Salt in the Structural Evolution of Orogens* Funding Source: UEFISCDI (PN-III-P1-1.1-PD-2021-0165)

HONOURS AND AWARDS

[2023] Academia Română

The "Ludovic Mrazec" Award of the Romanian Academy The awards were granted by the Romanian Academy for the most valuable scientific and artistic creations made in 2021. The "Ludovic Mrazec" Prize of the Romanian Academy was awarded to the authors of the work: "Low-Angle Shear Within the Exposed Mânzălești Diapir, Romania: Salt Decapitation in the Eastern Carpathians Fold-and-Thrust Belt," namely: Dan-Mircea Tămaș, Alexandra Tămaș, Jessica Barabasch, Mark G. Rowan, Zsolt Schleder, Csaba Krézsek, Janos L. Urai.

[2023] Asociația Ad Astra

The "Ad-Astra Prize for Excellence in Research" The "Ad-Astra Prize for Excellence in Research" for researchers with less than 7 years of experience and affiliation in Romania, in the field of Earth Sciences and Space Sciences

[2023] Universitatea Babeș-Bolyai

The "Excellence in Teaching Award" The "Excellence in Teaching Award" for the activity in the year 2022.

Research publication awards 2023 Research publication award PN-IV-P2-2.3-PRECISI-2023-77574 – UEFISCDI2023
Research publication award PN-IV-P2-2.3-PRECISI-2023-77463 – UEFISCDI2021 Research publication award PN-III-

P1-1.1-PRECISI-2021-62553 – UEFISCDI2021 Research publication award PN-III-P1-1.1-PRECISI-2021-53022 – UEFISCDI2020 Research publication award PN-III-P1-1.1-PRECISI-2020-49408 – UEFISCDI2018 Research publication award PN-III-P1.1-PRECISI-2018-28356 – UEFISCDI

Scholarships and Fellowships 2020-2021 Postdoctoral Entrepreneurship Scholarship – Babeş-Bolyai University, part of project POCU/380/6/13/123886: Entrepreneurship for Innovation through Doctoral and Postdoctoral Research.
2020 Advanced Fellowship Intern: Complementing teaching activities with virtual field trips – Babeş-Bolyai University under project PN-III-1.2PDI-PFC-C1-PFE-202 (contract no. 33PFE/2018).
2020 Advanced Fellowship Intern: Using photogrammetry and drone imagery for building 3D digital outcrop models for teaching use – Babeş-Bolyai University under project PN-III-1.2PDI-PFC-C1-PFE-202 (contract no. 33PFE/2018).
2012-2013 Scientific Performance Scholarship – Babeş-Bolyai University.

Soft skills

- Ability 2 Interact - Consulting 4 Resolution Training 24-25.06.2014
- Ability 2 Execute - MDI 05-06.05.2015
- High Impact Presentation Skills - Lighthouse OD 07-08.05.2015

Technical

- Core to Model Training - Internal OMV-Petrom 8.7.2013
- Water Management Course - MAN Consultants 19-23.8.2013
- Basic Sedimentology Course - Internal OMV-Petrom 17-18.10.2013
- Introduction to Geomodeling - Internal OMV-Petrom 13.2.2014
- The E&P Lifecycle workshop - AGR Tracs Training 30.06-11.07.2014
- Geological Interpretation of Well Logs - Nautilus Training Course F003 03.11. 2014 - 07.11.2014
- Introduction to Seismic Interpretation - Nautilus Training Course F085 – 10-14.11.2014
- Practical Subsurface Mapping - Nautilus Training Course F260 17.11.2014 - 21.11.2014
- An Introduction to Reservoir Evaluation - Nautilus Training Course F353 24.11.2014 - 28.11.2014
- Introduction to Geostatistics - Internal OMV-Petrom 19.3.2015
- Basin Analysis and Petroleum Systems - Hot Engineering 11.05.2015 - 15.05.2015
- Seismic and Well Facies Mapping in a Sequence Stratigraphic Framework - Nautilus Training Course N357 18-22.05.2015
- Structural Geology - Internal OMV-Petrom 25-29.05.2015

Software

- OFM (Oil Field Manager) - Internal OMV-Petrom 12-13.11.2013
- Petrel Fundamentals - Schlumberger 3-4.3.2014 (Certificate no. 21309-49675-80589)
- Petrel Geology - Schlumberger 5-7.3.2014 (Certificate no. 21310-49675-80607)
- Petrel Mapping and Geological Workflow - Schlumberger 2-3.6.2014 (Certificate no. 21852-49675-90800)
- Petrel Property Modelling - Schlumberger 4-6.6.2014 (Certificate no. 21853-49675-92314)

Entrepreneurial

- Entrepreneurial Postdoctorate within the project POCU/380/6/13/123886: Entrepreneurship for Innovation through Doctoral and Postdoctoral Research (Entrepreneurial Skills Certificate series M no 00242446, issued by the Ministry of National Education)

PROIECTE

Member in projects, grants, contracts

Member in 11 projects/grants/contracts, for example:

2021 Analog modeling of transpressional systems

Funding Source: OMV Petrom S.A.

Project Director: Dr. Alexandra Tămaş

2020-2022 GEVTEC - Geochemistry of Gas Emissions in the Volcano-Tectonic environment of the Eastern Carpathians: geologic and social impact

Funding Source: UEFISCDI (PN-III-P1-1.1-TE-2019-1908)

Project Director: Senior Lecturer Dr. Boglárka-Mercédesz Kis