



Diana Felicia Panait

Nationality: Romanian **Gender:** Female

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in **LinkedIn:** <https://www.linkedin.com/in/dianafelicia-panait/>

📍 **Work:** Clinicilor 5-7 "C. Craciun" Electron Microscopy Center, 400006 Cluj-Napoca (Romania)

WORK EXPERIENCE

STEAM mediator

Cluj Cultural Center (Learning Qub) [07/2022 – 2023]

City: Cluj-Napoca | Country: Romania | Website: <https://qub.education/> | Business or sector: Education

STEAM education (<https://cccluj.ro/>)

University research assistant

Institute of Research-Development-Innovation in Applied Natural Sciences, Babeş-Bolyai University [02/2021 – Current]

University associate teaching assistant

Babeş-Bolyai University, Faculty of Biology and Geology [2019 – Current]

City: Cluj-Napoca | Country: Romania

- leading and teaching the laboratories and seminar curricula
- subjects:
 - Computer Operations (BSc, 1st year)
 - Biophysics (BSc, 2nd year)
 - Cytology (BSc, 1st year)
 - Cell Biology (BSc, 1st year)
 - Nucleic Acid Biochemistry (BSc, 2nd year)
 - Advanced Aspects of Cellular Ultrastructure (MSc, 1st year)

Founder and administrator

S.C. SPIRUTECH S.R.L [17/05/2017 – Current]

City: Cluj-Napoca | Country: Romania

- start-up focused on educational activities and educational materials

University research assistant (Project DARKFOOD, PN-III-P4-ID-PCCF-2016-0016)

Babeş-Bolyai University [03/2019 – 2022]

City: Cluj-Napoca | Country: Romania | Website: <https://www.darkfoodincaves.com/>

- processing of sediment and water samples within cave ecosystems by culture-dependent and culture-independent techniques

Founder & member

Students Entrepreneurship Society (SAS-UBB), Babeş-Bolyai University [07/2017 – 07/2019]

City: Cluj-Napoca | Country: Romania

- responsible student relationship
- member of event organizing team of SAS UBB

Sales assistant

S.C. ROUMASPORT S.R.L (Decathlon Cluj) [09/07/2015 – 09/01/2016]

- direct contact with clients (providing general advice to customers)

Field survey operator

Lucian Blaga University of Sibiu [13/09/2012 – 15/09/2012]

City: Sibiu/Satu-Mare | Country: Romania

- data collecting

Translator

S.C. ALFA VEGA S.R.L [08/07/2012 – 08/08/2012]

City: Satu Mare | Country: Romania

- translating product catalogs

EDUCATION AND TRAINING

Doctoral studies

Doctoral School of Integrative Biology, Faculty of Biology and Geology, Babeş-Bolyai University [01/10/2018 – Current]

City: Cluj-Napoca | Country: Romania | Field(s) of study: Environmental microbiology | Thesis: Diversity, functionality and role of microbial communities in supporting trophic chains in caves

Specialization course for entrepreneurship skills

Babeş-Bolyai University [15/10/2020 – 15/07/2021]

City: Cluj-Napoca | Country: Romania

- Project POCU/380/6/13/ 123886, *Antreprenoriat pentru inovare prin cercetare doctorală și postdoctorală (Entrepreneurship for innovation through doctoral and postdoctoral research)*

Project manager certification (COR code 242101)

S.C. SOFT SKILLS TRAINING SRL (Reg. nr. RNFFPA 40/4691/19.07.2016) [25/09/2019]

City: Cluj-Napoca | Country: Romania

- Establishing integrated project management requirements
- Planning project activities and milestones
- Management of the use of costs and operational resources for the project
- Carrying out procurement procedures for the project
- Risk management
- Project team management
- Project quality management

Master Diploma - Molecular Biotechnology

Babeş-Bolyai University, Faculty of Biology and Geology [01/10/2016 – 02/07/2018]

City: Cluj-Napoca | Country: Romania | Field(s) of study: Molecular Biotechnology | Final grade: 10

Thesis title: *Scanning Transmission Electron Microscopy (STEM) use in determination of 3D structures of metalloproteins. Case study: cyanobacterial photosystem I*

Competencies:

- application of the main concepts in molecular biology
- the ability to explain and interpret at the molecular level the different processes and mechanisms in the field of natural and biomedical sciences
- use of laboratory equipment, modern molecular biology techniques used in fundamental and applied research
- general understanding of biotechnological processes
- skills for quality control management in laboratories
- sample processing and acquisition of SEM / TEM images

Training of trainers certification (COR code 242401)

Babeş-Bolyai University (Nr. RNFFPA 12/580/29.05.2013) [01/03/2017 – 01/07/2017]

City: Cluj-Napoca | Country: Romania

- Training preparation
- Carrying out training activities
- Evaluation of training participants
- Application of special training methods and techniques
- Training marketing
- Design of training programs
- Organizing training programs and strategies
- Evaluate, review and ensure the quality of training programs and strategies

Engineer diploma

Babeş-Bolyai University, Faculty of Biology and Geology [01/10/2012 – 01/07/2016]

City: Cluj-Napoca | Country: Romania | Field(s) of study: Industrial biotechnologies | Final grade: 9.62 | Thesis: Purification methods of cyanobacterial phycobiliproteins

Competencies:

- use of the theoretical foundations of applied engineering sciences
- data systems management
- the use of biological processes in different forms and levels to obtain bioproducts

- elimination of risks from biotechnological processes
- management and planning of activities specific to economic units or their compartments
- expertise in quality control of bioproducts

Baccalaureate diploma

Mihai Eminescu National College [01/10/2008 – 01/06/2012]

City: Satu Mare | Country: Romania

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

German

LISTENING A2 READING A2 WRITING A2

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

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

DIGITAL SKILLS

Microsoft Office / R Studio / Python programming (beginner) / Canva Design / Web design (WordPress) / Adobe premiere - intermediar / Social Media / Communication Platforms: Zoom, Google Meet, Skype etc.

Social & communication skills

Good listener and communicator / Written and Verbal skills / Team-work oriented / scientific writing / Organizational and planning skills / Decision-making / Google Drive

PUBLICATIONS

[2025]

Community-level physiological profiling of carbon substrate metabolism by microbial communities associated to sediments and water in karstic caves from Romania

Diana Felicia Panait, Andrei Marian Panait, Adorján Cristea, Erika Andrea Levei, Oana Teodora Moldovan, Horia Leonard Banciu, preprint bioRxiv

[2023]

Diversity, distribution and organic substrates preferences of microbial communities of a low anthropic activity cave in North-Western Romania

- **Authors:** Diana Felicia Bogdan, Andreea Ionela Baricz, Iulia Chiciudean, Paul-Adrian Bulzu, Adorjan Cristea, Ruxandra Năstase-Bucur, Erika Andrea Levei, Oana Cadar, Cristian Sitar, Horia Leonard Banciu, Oana Teodora Moldovan

Frontiers in Microbiology, Section Terrestrial Microbiology

[2022]

Competition-cooperation in the chemoautotrophic ecosystem of Movile Cave – first metagenomic approach on sediments

- **Authors:** Iulia Chiciudean, Giancarlo Russo, **Diana Felicia Bogdan**, Erika-Andrea Levei, Luchiana Faur, Alexandra Maria Hillebrand-Voiculescu, Oana Teodora Moldovan and Horia Leonard Banciu

[2022]

A glimpse into the biosynthetic potential and resistome of microbial communities inhabiting sulfidic, chemoautotrophic Movile Cave (conference abstract) ecosystem

- **Authors:** Iulia Chiciudean, **Diana Felicia Bogdan**, Oana Teodora Moldovan, Horia Leonard Banciu

ARPHA Conference Abstracts 5

[2020]

Sequential aqueous two-phase system for simultaneous purification of cyanobacterial phycobiliproteins

- **Authors:** Alin Sebastian Porav, Maricel Bocăneală, Alexandra Fălămaș, **Diana Felicia Bogdan**, Lucian Barbu-Tudoran,

Adriana Hegeduș, Nicolae Dragoș

Bioresource Technology

[2019]

Diversity and antibiotic resistance of heterotrophic bacteria isolated from Muierilor Cave (Romania) - abstract

- **Authors:** **Diana Felicia Bogdan**, Adorjan Cristea, Doriană-Mădălina Buda, Andreea Baricz, Mihaela Ionescu, Alexandra

Crăciun, Oana Teodora Moldovan, Horia Leonard Banciu

Journal of Experimental & Molecular Biology, ISSN: 2601-6974

NETWORKS AND MEMBERSHIPS

[2020 – Current]

Member of Romanian Society of Bioinformatics

[2018 – Current] Faculty of Biology and Geology, Laboratory of Molecular Biology, Biochemistry and Biophysics

Member of Center of Systemic Biology, Biodiversity and Bioresources

[2015 – 2018]

Member of Romanian Society of Cellular Biology

[2014 – Current] Faculty of Biology and Geology

Member of Electron Microscopy Center

- <http://emc.centre.ubbcluj.ro/staff/>

DRIVING LICENCE

Driving Licence: B

CONFERENCES AND SEMINARS

[18/10/2023 – 21/10/2023] Cluj-Napoca

Conference of the Romanian Electron Microscopy Society - C.R.E.M.S.

- **Paper title** (oral presentation): *Scanning Transmission Electron Microscopy (STEM) use in determination of 3d structures of metalloproteins. Case study: cyanobacterial photosystem I*
- **Authors:** Diana Felicia Panait, Alin Sebastian Porav, Lucian Barbu

Link: https://www.romicroscopy.ro/images/conferinte/CREMS2023/Final_Program_CREMS_2023.pdf

[18/07/2022 – 22/07/2022]

25th International Conference on Subterranean Biology

- **Paper title** (oral presentation): A glimpse into the biosynthetic potential and resistome of microbial communities inhabiting sulfidic, chemoautotrophic Movile Cave ecosystem
- **Authors:** Iulia Chiciudean, **Diana Felicia Bogdan**, Oana Teodora Moldovan and Horia Leonard Banciu

[30/06/2022 – 02/07/2022] Belgrade, Serbia

FEMS Conference on Microbiology

- **Paper title** ([poster](#)): Evaluation of bacterial diversity and community-level physiological profiles associated to sediments and water from a karst cave
- **Authors:** Diana Felicia Bogdan, Andreea Ionela Baricz, Iulia Chiciudean, Paul Adrian Bulzu, Ruxandra Năstase-Bucur, Erika Andrea Levei, Cristian Sitar, Ionuț Cornel Mirea, Horia Leonard Banciu and Oana Teodora Moldovan

[11/2021] Cluj-Napoca, Romania

National Symposium BIO.T.A. - Biodiversity, Traditions and Actuality, 7th edition

Paper title (oral presentation): Assessment of bacterial diversity and community-level physiological profiles associated to sediments and water from *Peștera cu Apă din Valea Leșului* (Romania)

Authors: Diana Felicia Bogdan, Iulia Chiciudean, Andreea Ionela Baricz, Ruxandra Năstase-Bucur, Erika Andrea Levei, Cristian Sitar, Ionuț Cornel Mirea, Oana Teodora Moldovan and Horia Leonard Banciu

[11/2021 – 11/2021] Cluj-Napoca Romania

National Symposium BIO.T.A. - Biodiversity, Traditions and Actuality, 7th edition

- **Paper title** ([poster](#)): Ecological interactions inferred from metagenomic analysis of Movile Cave sediments
- **Authors:** Iulia Chiciudean, Giancarlo Russo, **Diana Felicia Bogdan**, Erika Andrea Levei, Oana Teodora Moldovan and Horia Leonard Banciu

[22/07/2021 – 25/07/2021] Cluj-Napoca, Romania

Young Researchers in BioSciences 6th edition

- **Paper title** (oral presentation): Diversity of cultivable heterotrophic bacteria from three Romanian karst caves
- **Authors:** Nicoleta-Patricia Vaniga, **Diana Felicia Bogdan**, Oana Teodora Moldovan, Horia-Leonard Banciu

[10/2021 – 10/2021] online

Seminar E-ON Reality

- Participation in the training seminars dedicated for Babes-Bolyai University staff for using the EON Reality platform

[12/12/2020] University of Bucharest (online)

National Conference for PhD Students, "Impact of my research project in society", 3rd edition

- **Paper title:** *Metabolic fingerprinting of microbial communities from cave ecosystems: ecological and socio-economical relevance* (oral presentation-contest)
- **Domains:** Chemistry and Chemical Engineering, Biology, Geology, Geography, Environmental Science

[2020] online

Webinar FEMS Microbiology Ecology Webinar on the Environmental Dimension of Antibiotic Resistance

[2020] online, University of Chicago (Meren Lab)

Microbial 'omics for beginners online seminars

Slovakia (online)

47th International Conference of Slovak Society of Chemical Engineering

- **Paper title:** *Chemical characterization of sediments in the Topolníța karst cave (SW Romania)*
- **Authors:** Eniko Kovacs, Erika-Andrea Levei, Anamaria Iulia Török, Oana Cadar, Cristian Sitar, Luchiana Faur, Ruxandra Năstase-Bucur, Marius Kenesz, Alexandru Petculescu, **Diana Felicia Bogdan**, Iulia Chiciudean, Horia Leonard Banciu, Irina Atkinson, Victor Fruth, Oana Teodora Moldovan

[2019] Babeş-Bolyai University

Seminar Academic writing

[2019] Cluj-Napoca

International Conference on Halophilic Microorganisms // Halophiles 2019

- Organizer (PR manager)

[06/04/2019] Faculty of Biology and Geology, Cluj-Napoca

National Symposium BIO.T.A.- BIOdiversitate: Tradiții și Actualitate

- **Paper title:** A snapshot on the culturable aerobic heterotrophic bacteria isolated from Muierilor Cave (Romania) - poster
- **Authors:** **Diana Felicia Bogdan**, Adorjan Cristea, Doriana Buda, Andreea Baricz, Oana Moldovan, Horia Leonard Banciu.

[09/2019] Iași, Romania

Annual International Conference of the Romanian Society of Biochemistry and Molecular Biology

- **Poster title:** *Diversity and antibiotic resistance of heterotrophic bacteria isolated from Muierilor Cave (Romania).*

[2018] Babeş-Bolyai University, Cluj-Napoca

Technology and Innovation in Governance

- passive participant

[09/09/2018 – 16/09/2018] University of Essex, Colchester, United Kingdom

Workshop COST MEDSALT Training School 4

- **Location:** University of Essex (Colchester, UK) and Boulby International Subsurface Astrobiology Laboratory (UK)
- **Aim:** acquiring theoretical and practical knowledge in the field of microbiology and geochemistry in order to study the life forms in salt deposits.

[07/2018] Cluj-Napoca, Romania

International Symposium "Young Researchers in BioSciences"

- **Paper title (oral presentation):** Cyanobacterial Photosystem I 3D structure determined using HAADF-STEM
- **Authors:** Diana Felicia Bogdan, Alin Sebastian Porav, Lucian Barbu

[2018] Babeş-Bolyai University, Cluj-Napoca

Seminar "Strategy of editing and publishing a scientific article"

[2018] Promega, Faculty of Biology and Geology

Seminar "Analysis of Gene Expression and Regulation on Several Levels. Apply qPCR and Luciferase Reporter Systems Optimally"

[07/2016]

International Symposium "Young Researchers in BioSciences"

- **Paper title (poster):** Purification methods of cyanobacterial phycobiliproteins
- **Authors:** Diana Felicia Bogdan, Alin Sebastian Porav, Lucian Barbu

PROJECTS

[13/11/2023 – 13/10/2024]

Institutional projects | Competitiveness support grant AGC34939/02.10.2023 (director)

[24/03/2023 – 30/11/2023]

Education expert - ROSE AG 299/SGU/NC/II/23.12.2019

- supporting students enrolled in public higher education institutions, who are at risk of dropping out in the first year of studies in the undergraduate cycle (tutoring)

[2017]

Program StartUp Nation

- Minimis grant scheme for the entity: S.C. SPIRUTECH SRL
- Funding Program: Start-up Nation
- Approved budget: 200,000 lei
- Funding source: Ministry of Business Environment, Trade and Entrepreneurship (MMACA)

[2018 – 2022]

DarkFood - Food Chains in the dark: diversity and evolutionary processes in caves (PN-III-P4-ID-PCCF-2016-0016)

- project member (Research Assistant)
- sample processing by the cultivation of microorganisms (culture-dependent) and molecular (culture-independent)
- interpretation of data and results
- contributions to the development of scientific publications
- website and publications: <https://www.darkfoodincaves.com/>
- Coordinator: Romanian Academy, Cluj branch; Project director: Dr. CS I Oana Moldovan; Responsible of
- partner P1 UBB: Prof. Horia Banciu).
- funding volume: total budget (RON): 8.500.000, partner budget (RON): 2.000.000
- source of funding: UEFISCDI

[07/2018 – 12/2018]

CNSIS-FDI-2018-0096

- Responsible for information, recruitment, and relationship with the target group (service contract)
- Project title: Developing the entrepreneurial spirit among UBB students and graduates
- Strategic financing area: D4 Student Entrepreneurial Societies
- Financing volume - Approved budget: 106,000 lei
- Source of funding: National Council for the Financing of Higher Education (Institutional Development Funds - FDI 2018)

[05/07/2017 – 15/12/2017]

CNSIS-FDI-2017-0124

- Referent - Responsible for the relationship with students
- Project title: Development of entrepreneurial activity for UBB students and graduates
- Strategic financing area: D5 Student Entrepreneurial Societies
- Financing volume - Approved budget: 60,000 lei
- Source of funding: National Council for the Financing of Higher Education (Institutional Development Funds - FDI 2017)

WORK MOBILITIES

[06/09/2024 – 13/09/2024]

Staff Mobility For Training | Clarkson University | United States of America

- Research dissemination and collaboration (establish research and academic collaboration between EMC UBB and the Department of Chemistry and Biomolecular Science from Clarkson University; increase the visibility of our laboratory among researchers from Clarkson University)
- Strengthen interdisciplinary research and educational network
- Knowledge transfer in material science

[29/04/2024 – 03/05/2024]

Erasmus teaching mobility | Baku Engineering University | Azerbaijan

- Teaching seminars to students on the topic of studying the microbial (bacterial) diversity within different environmental samples (methods, results, discussions)
- Teaching seminars on basic computer science and solving experimental data
- Exchange of experience in teaching methods and good practices in both research and teaching

[25/03/2024 – 29/03/2024]

Erasmus teaching mobility | The University of Da Nang – University of Science and Education | Vietnam

- Teaching seminars to students on the topic of studying the microbial (bacterial) diversity within different environmental samples (methods, results, discussions)
- Teaching seminars on basic computer science and solving experimental data
- Exchange of experience in teaching methods and good practices in both research and teaching

[10/06/2023 – 18/06/2023]

Erasmus teaching mobility | Mutah University | Jordan

- **Teaching seminars to students on the topic of studying the microbial (bacterial) diversity within different environmental samples** (methods: DNA extraction, gene amplification, sequencing, metabolic fingerprinting, imaging techniques: epifluorescence microscopy, electron microscopy)
- Exchange of experience in teaching methods and good practices in both research and teaching

[16/04/2021 – 15/11/2021]

Guest research assistant | Helmholtz Centre for Environmental Research (UFZ) | Leipzig, Germany

- developing and improving skills for epifluorescence microscopy (CARD-FISH) and single-cell analysis from sediment samples within cave ecosystems

Research period: 16.04.-15.07.2021 & 15.10.-15.11.2021

[09/09/2018 – 16/09/2018]

Workshop COST MEDSALT Training School 4 | Colchester, United Kingdom

- **Location:** University of Essex (Colchester, UK) and Boulby International Subsurface Astrobiology Laboratory (UK)
- **Aim:** acquiring theoretical and practical knowledge in the field of microbiology and geochemistry in order to study the life forms in salt deposits.

HONOURS AND AWARDS

[2018] Babeş-Bolyai University, CSUBB

Excellentia Award

[2016]

Best poster - International Symposium Young Researchers in BioSciences

- Poster presentation entitled "Purification of cyanobacterial phycobiliproteins", co-authored with Porav Alin Sebastian and Lucian Barbu

VOLUNTEERING

[03/2021 – Current] <https://stiinta-cercetare.ro/>

Asociația Știință și Cercetare / Science and Research Association (vicepresident)

Science Ongoing program: organizing and moderation of online seminars with presentations of Romanian researchers in the field of (molecular) biology (from abroad, and national) of career and research path dedicated to other Romanian researchers and students

[2020 – 2024] Institute of Doctoral Studies, Babeș-Bolyai University

PhD students representative in Doctoral Studies Council (CSUD-UBB)

[2016 – 2018] Babeș-Bolyai University

Senator student (student's representative)

[2018] Cluj-Napoca

SciFest founder (science festival)

- Founder and coordinator of the first edition of the science festival SciFest-The science of things (a project of the Organization Students for Nature, made in partnership with Cluj-Napoca City Hall and DJST Cluj)
- Main activities: project writing, attracting funding, implementation and promotion, coordination of work teams.

[17/05/2017 – 06/12/2018] Students for Nature Organization (Organizația Studenților pentru Natură)

Organization president

- student representation
- developing and writing projects, attracting funding sources, implementing and promoting scientific and educational projects of the organization
- coordinating the activity of the organization

Faculty of Biology and Geology

Student representative in Faculty Council

[2014 – Current] Institute of Science and Innovation for Society

Project manager assistant

- organization of scientific events (Young Researchers in BioSciences International Symposium, Halophiles 2019 International Conference)
- PR manager

[14/05/2013 – 14/05/2015] Students for Nature Organization (Organizația Studenților pentru Natură)

General secretary

- coordination of the administrative and financial activity of the organization