

PERSONAL INFORMATIONS

Maria Andreea Bischin

 Sibiu and Cluj-Napoca, Romania

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Sex Female | Date of birth January 8, 2001 | Nationality Romanian

PROFESSIONAL EXPERIENCE

November 2024 –
present

Research assistant

Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University Cluj-Napoca
Research project: Dynamic Interactive Membranes - Toward Adaptive Selection of Functions : EVOLUTION

- maintenance of the laboratory and equipment
- handling of laboratory glassware
- synthesis of organic compounds and their analysis for project applications
- purification of intermediates and target compounds

Type or sector of activity: Research

October 2023 –
November 2024

Tehnician

Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University Cluj-Napoca
Research project: Cationic Covalent Organic Frameworks as Anion Exchange Membranes for Electrochemical Energy Applications - COFFEE

- maintenance of the laboratory and equipment
- handling of laboratory glassware
- synthesis of organic compounds and membranes
- purification of intermediates and target compounds

Type or sector of activity: Research

February 2024 –
April 2024

Research Intern

European Membrane Institute Montpellier, Occitanie, France

- synthesis of organic compounds and membranes
- purification of intermediates and target compounds
- structural, thermal and morphological characterization of membranes

Type or sector of activity: Research

July 2018 –
September 2018

Commercial worker

Simpa SA Sibiu

- Selling products
- Arranging products and maintaining cleanliness
- Handling of pastries, confectionery and bakery products
- Using bread and sausage slicers

Type or sector of activity: Trade

2014 - 2022

Volunteer

- I participated for 2 years (2014-2015) in carrying out charitable activities within a group of young volunteers (Leo Club Brukenthal Sibiu)

- I was a volunteer in the organization of the following events: • Transylvania Open Cluj-Napoca 2022 (tennis tournament) • Duathlon Challenge Sibiu 2017 • Sibiu International Theatre Festival 2017 (FITS) • Sibiu International Theatre Festival 2018 (FITS) • National Informatics Olympiad 2017 Sibiu • Sibiu International Marathon 2017

Type or sector of activity: Volunteering

EDUCATION AND TRAINING

2024 - present

PhD Student

Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University Cluj-Napoca
Doctoral School of Chemistry, Scientific Coordinator: Prof. Dr. Niculina-Daniela Hădăde
Center for Supramolecular Organic and Organometallic Chemistry, Department of Organic Chemistry

- Synthesis and characterization of azobenzene derivatives for obtaining new molecular tweezers and photoswitchable macrocycles.
- Supervising a master thesis; Teaching undergraduate laboratories.

2025 - 2026 Postgraduate Psychopedagogical Module Student – Level 1

Department for Teaching Staff Training, "Babeş-Bolyai" University Cluj-Napoca

2022 - 2024 Master in Advanced Chemistry

Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University Cluj-Napoca

Dissertation thesis title: "Cationic monomers for obtaining anion exchange membranes"

Scientific coordinators: Lecturer Dr. Elena Bogdan

Studied disciplines: advanced organic chemistry, advanced physical chemistry (electrochemistry, chemical kinetics, thermodynamics), chemometrics, materials with ionic and molecular recognition properties, magnetic and spectral properties of coordination and organometallic compounds, advanced biochemistry, advanced analytical chemistry, advanced inorganic chemistry, advanced organometallic chemistry, asymmetric syntheses, advanced stereochemistry, physical chemistry of nanostructured materials, molecular modeling, retrosynthetic analysis

Other mentions: - To carry out the experimental part of the dissertation work, I carried out laboratory research activities within the Center for Supramolecular Organic and Organometallic Chemistry, Department of Organic Chemistry.

 - I obtained a merit scholarship in each semester (averages 1st year: 9.66 - sem. 1; 9.84 - sem. 2, 2nd year: 9.66 - sem. 1; 10.00 - sem. 2; dissertation exam: 10.00).

2019 - 2022 Bachelor's Degree in Chemistry

Faculty of Chemistry and Chemical Engineering, Babeş-Bolyai University Cluj-Napoca

Bachelor's thesis title: "Hydrazone derivatives – potential materials for organic solar cells"

Scientific coordinators: Lecturer Dr. Elena Bogdan, Lecturer Dr. Andreea-Petronela Crişan

Knowledge acquired: organic chemistry, organic synthesis, supramolecular chemistry, organic structural analysis

Other studied disciplines: physical chemistry (electrochemistry, chemical kinetics, thermodynamics), catalysis, analytical chemistry, inorganic chemistry, chemical technology, organometallic chemistry, stereochemistry

Other mentions:

- To carry out the experimental part of the bachelor's thesis, I carried out laboratory research activities within the Center for Supramolecular Organic and Organometallic Chemistry, Department of Organic Chemistry.

 - I obtained a merit scholarship in each semester (averages obtained: 1st year: 10.00 - sem. 1; 9.70 - sem. 2; 2nd year: 9.50 - sem. 1; 8.60 - sem. 2; 3rd year: 9.13 - sem. 1; 8.70 - sem. 2; bachelor's exam: 9.70).

2015 - 2019 Baccalaureate diploma

"Gheorghe Lazăr" National College Sibiu, Profile: mathematics - computer science

Studied disciplines: mathematics, chemistry, physics, biology

Other mentions:

- Awards and mentions at school olympiads, inter-county or national competitions in mathematics and chemistry (Selection: • First Prize – County Chemistry Olympiad 2016, Sibiu, Romania and qualification for the National Chemistry Olympiad 2016, Bacău • First Prize – County Mathematics Olympiad 2016, Sibiu, Romania and participation in the National Mathematics Olympiad 2016, Târgu-Mureş • Second Prize – County Chemistry Olympiad 2017, Sibiu, Romania • Second Prize – County Chemistry Olympiad 2018, Sibiu, Romania • First Prize – County Chemistry Olympiad 2019, Sibiu, Romania)

2007 - 2015 Primary and secondary school

"Nicolae Iorga" Gymnasium School (No. 6) Sibiu

Other mentions:

- Awards and mentions at school olympiads, inter-county or national competitions in mathematics and chemistry (Selection: • 1st Prize – County Mathematics Olympiad 2012, Sibiu, Romania and participation in the National Mathematics Olympiad 2012, Bistriţa-Năsăud • 2nd Prize – County Mathematics Olympiad 2013, Sibiu, Romania • Mention – County Mathematics Olympiad 2014, Sibiu, Romania • 1st Prize – County Chemistry Olympiad 2015, Sibiu, Romania and participation in the National Chemistry Olympiad 2015, Galaţi)

PERSONAL COMPETENCES

Mother tongue	Romanian				
	UNDERSTANDING		SPEAKING		WRITING
Other known foreign languages	Listening	Reading	Conversation	Oral speech	
	English	C1	C1	C1	C1
CERTIFICATE OF LANGUAGE PROFICIENCY (UBB) C1					
French	A2/B1	B2	B1/B2	B1/B2	B2
DIPLÔME D'ÉTUDES EN LANGUE FRANÇAISE (DELFF) B2					

- Computer skills**
- use of Microsoft Office programs (ECDL – European Computer Driving Licence)
 - use of ChemDraw, MestreNova, Xcalibur, Diamond programs
 - design and structure of software applications and databases
 - customization, configuration and modification of software applications, in order to adapt the client's information systems (Certificate of professional computer skills)
- Other skills**
- good written and verbal communication skills
 - good learning, thinking and problem-solving skills
- Research internships**
- Erasmus Mobility – European Membrane Institute Montpellier, Occitanie, France (February 5, 2024 – April 26, 2024)