



Alex-Florin ISAI

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Gender: Male **Date of birth**: 05/03/1999 **Place of birth**: Dej, Romania **Nationality**: Romania

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WORK EXPERIENCE

Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University

City: Cluj-Napoca | **Country**: Romania

[01/10/2024 – Current] **Research Assistant**

Dynamic Interactive Membranes - Toward Adaptive Selection of Functions (EVOLUTION)

Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University

City: Cluj-Napoca | **Country**: Romania

[10/2023 – 31/10/2024] **Chemical Technician**

Dynamic Interactive Membranes - Toward Adaptive Selection of Functions (EVOLUTION)

Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University

City: Cluj-Napoca | **Country**: Romania

[03/2021 – Current] **Research activities in the organic chemistry laboratory**

1. Handling of glassware and laboratory equipment

2. Performing organic syntheses – in the organic chemistry laboratory of the “Supramolecular Organic and Organometallic Chemistry Centre” research group – Department of Organic Chemistry

„George Barițiu” National College

City: Cluj-Napoca | **Country**: Romania

[03/2022 – 07/2022] **High School Chemistry Teacher**

1. I taught several chemistry lessons as part of my psychopedagogical training

2. Organizing teaching activities

3. Classroom management

EDUCATION AND TRAINING

[30/09/2024 – Current] **PhD student**

Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University <https://chem.ubbcluj.ro/doctorat/scoala-doctorala-de-chimie/>

City: Cluj-Napoca | **Country**: Romania | **Field(s) of study**: Organic chemistry

[10/2022 – 07/2024] **Master’s Degree – Advanced Chemistry**

Faculty of Chemistry and Chemical Engineering, Babeș-Bolyai University <http://chem.ubbcluj.ro/>

Address: 11 Arany János Street, 400028, Cluj-Napoca, Romania | | **Thesis**: Boronic acids with potential applications in the development of artificial water channels

[09/2019 – 07/2022] **Bachelor’s Degree – Chemistry**

[09/2019 – 07/2022] **Psychopedagogical Training – Level I**

Department for Teacher Training (DPPD), Babeş-Bolyai University

Address: 11 Calea Moţilor Street, 400001, Cluj-Napoca, Romania |

[09/2014 – 07/2018] **High School Graduation + Baccalaureate Diploma**

„Andrei Mureşanu” National College

Address: 10 1 Mai Street, 405200, Dej, Romania |

SKILLS

Chemistry-related software (for spectroscopic methods, drawing, and editing) | Use of databases (SciFinder, RCSB PDB, ScienceDirect, Reaxys) | Use of communication programs (email, Messenger, Teams, Zoom, etc.) | Microsoft Office (Word, PowerPoint, Excel) | Use of software required for processing data on water and ion transport

LANGUAGE SKILLS

Mother tongue(s): Romanian

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

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

COMMUNICATION AND INTERPERSONAL SKILLS

Communication & Interpersonal Skills

- Effective communication with team members
- Good adaptability (both in interacting with different personality types and in adjusting to working conditions)
- Leadership skills (capable of leading a team)
- Attention to detail

CONFERENCES AND SEMINARS

Participation in conferences

I participated in the following conferences:

1. Young Researchers' International Conference on Chemistry and Chemical Engineering (YRICCCE V), Cluj-Napoca, May 8–10, 2025

Attending conferences

I attended various chemistry-related conferences (selection):

- International Conference “Students for Students”
- “Trojan Horses” for Cancer Therapy
- “Catalytic Alkyne Metathesis: The Reversible Making and Breaking of Carbon-Carbon Triple Bonds”

VOLUNTEERING

[2014 – 2018] **Volunteer Activities** „Andrei Mureşanu” National College

I carried out small volunteer activities throughout high school, for example:

- Collecting defective electronic devices from the Dej area and placing them in designated locations to reduce pollution
- Participating in environmental cleanup activities, etc.

Hobbies List

- Chemistry
- Sports activities (football, tennis, etc.)
- Cinema (movies, TV series)