



Bogdan-Marius Boşca

Date of birth: 13/08/1998 | **Place of birth:** Oradea | **Nationality:** Romanian | **Gender:** Male |

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WORK EXPERIENCE

CHEMISTRY TEACHER SECONDARY SCHOOL – “MIHAI EMINESCU” NATIONAL COLLEGE – 01/09/2022 – Current – ORADEA, ROMANIA

- chemistry teaching at middle and high school levels
- student preparation for national exams, Olympiads, and other competitions
- coordinating the debate group
- drafting/Writing Erasmus projects

CHEMICAL ANALYST – BABES-BOLYAI UNIVERSITY – 06/01/2021 – 2022

- conducting experiments in the field of bioanalytical chemistry
- conducting analysis using reflectance spectrophotometer and UV-Vis nanophotometer
- manipulation and interpretation of the obtained data
- converting obtained data into a manuscript

STUDENTS ASSISTANT – BABES-BOLYAI UNIVERSITY – 01/2021 – 30/08/2022

- helping the first year students with their questions regarding the studied subjects
- helping the first year students to operate the specific applications for their online classes

EDUCATION AND TRAINING

01/10/2022 – CURRENT Cluj-Napoca, Romania
PHD STUDENT Babes-Bolyai University,

Field of study Chemistry

10/2020 – 2022 Cluj-Napoca, Romania

MASTER STUDENT Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering

Address 11, Arany Janos Street, 400028, Cluj-Napoca, Romania | **Field of study** Chemistry

10/2017 – 07/2020 Cluj-Napoca, Romania

BACHELOR DIPLOMA IN CHEMISTRY, INCLUDING TEACHER QUALIFICATIONS Babes-Bolyai University, Faculty of Chemistry and Chemical Engineering

Address 11, Arany Janos Street, 400028, Cluj-Napoca, Romania | **Website** <http://www.chem.ubbcluj.ro/> |

Field of study Chemistry

Address 18, Episcop Roman Ciorogariu, Street, 410017, Oradea, Romania | **Website** <http://www.eminescu.rdsor.ro/> |**Field of study** Biochemistry**LANGUAGE SKILLS**Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C2	C1	C1	C1

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

ECDL BAC Profile | EndNote X7 | Microsoft Office | Google Drive | Google Docs | Microsoft Teams Microsoft Sharepoint | Microsoft Teams, Microsoft Stream | Collaboration Tools (MS Teams, Zoom, Webex, Skype for Business)

Chemistry related software

Spartan | MestReNova | Chem Draw | PyMolWin | Viewer lite Software

DRIVING LICENCE**Driving Licence:** B**PUBLICATIONS**

2021

"DEVELOPMENT OF A NON-DESTRUCTIVE METHOD FOR DETERMINATION OF pH OF PAPER ARTIFACTS USING DIFFUSE REFLECTANCE SPECTROSCOPY AND REGRESSION ANALYSIS"

B. M. Bosca and A. C. Mot, STUDIA UBB CHEMIA, LXVI, 2, 2021 (p. 127-136)

2021

"Evaluation of selenium content in biofortified Allium species by chromatographic means"

B. M. Bosca and A. C. Mot, Molecules, 2021, 26, 6730.

2023

"Novel simultaneous determination of alliin and allicin in Allium sp. using digital subtraction HPTLC"

B. Bosca and A. C. Mot, J. Chromatogr. B Anal. Technol. Biomed. Life Sci., 2023, 1222, 123700.

CONFERENCES AND SEMINARS**Conferences**

Oral presentation

1. Bogdan M. Boşca, Augustin C. Moţ, oral presentation titled "Dual-mode determination of selenium in biofortified Allium microsamples following piarselenol formation and solid phase microextraction", "International Conference Students for Students", April 2021, Cluj-Napoca, Romania.

2. Bogdan M. Boşca, Augustin C. Moţ, oral presentation titled "Determination of selenium in biofortified Allium microsamples using selective complexation and chromatographic detections", "Students' Scientific Communications Session", May 2021, Bucharest, Romania.

3. Bogdan M. Boşca, Augustin C. Moţ, oral presentation titled "Evaluation of selenium content in biofortified Allium species by chromatographic means", "Young Researchers in BioSciences International Symposium", July 2021, Cluj-Napoca, Romania.

4. Bogdan M. Boşca, Augustin C. Moţ, poster titled "Dual-mode determination of selenium in biofortified Allium microsamples following piaszelenol formation and solid phase microextraction", "Processes in Isotopes and Molecules (PIM 2021)", September 2021, Cluj-Napoca, Romania.

ORAL PRESENTATIONS (Continued)

5. Bogdan M. Boşca, Augustin C. Moţ, oral presentation titled "A greener alternative to conventional sample digestion for fluorimetric determination of selenium", "International Conference Students for Students", April 2022, Cluj-Napoca, Romania.

Poster presentation

1. Bogdan M. Boşca, Augustin C. Moţ, Sebastian T. Doroftei, "Limit of Detection in Analytical Chemistry: Rough Historical Trail, Romanian Contributors and Present Applications", International Symposium on Separation Sciences, 24-27 September, 2023, Cluj-Napoca.

2. Bogdan M. Boşca, Augustin C. Moţ, Sebastian T. Doroftei, Balazs Brem, "Can calibration make a difference? Faster and more informative chromatographic determination of thiosulfates", International Conference Students for Students, 21-24 April 2024, Cluj-Napoca.

● VOLUNTEERING

2017 – 2023 Cluj-Napoca

Chemical students organisation

- volunteering for the organisation's projects
- manager and second manager of the "Soul to soul" charity project manager and second manager of the "Chemistry students gala" project

● MANAGEMENT AND LEADERSHIP SKILLS

Project manager

- good leadership skills developed while organising two major projects, multiple times, for the students organisation I volunteer in

● COMMUNICATION AND INTERPERSONAL SKILLS

Good communication and interpersonal skills gained as an active volunteer

- volunteering activities throughout my high school years as a member of "LEO Black Eagle Oradea" NGO
- active member in "Chemical Students Organisation" since 2017

● ORGANISATIONAL SKILLS

Practical research activities

- organisational skills developed while performing research activities
- good capacity to work in team