



## Diana-Ioana Buliga

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### WORK EXPERIENCE

2022 – CURRENT Bucharest, Romania

**PHD STUDENT** UNIVERISTY POLITEHNICA OF BUCHAREST

#### **Formulations of protective cosmetic products obtained by applying integrated and sustainable bioeconomy approaches**

**PN-III-P2-2.1-PED-2021-0273**

- bioactive compounds extraction from grape by-products
- sample analysis using UV/Vis spectrophotometry and spectrofluorometry
- developing cosmetic formulations with UV protection

03/2023 – 05/2023 Bucharest, Romania

**WORKSHOP TRAINER** UNIVERISTY POLITEHNICA OF BUCHAREST

#### **Education, formation and professional development in medical engineering (ROSE)**

**AG352/SGU/SS/III from 08.09.2020**

- organizing the practical educational activities within the chemistry-centered workshops
- preparing the necessary materials to properly conduct the workshops
- guiding the students during the laboratory classes

2020 – 2022 Bucharest, Romania

**MASTER STUDENT** UNIVERSITY POLITEHNICA OF BUCHAREST

#### **Smart polymers obtained by photo-ATRP and 3D printing strategies (SmartPhoto-ATRP)**

**PN-III-P1-1.1-TE-2019-1387**

- developing controlled photopolymerization techniques
- drafting the research reports regarding the obtained scientific data
- sample analysis using UV/Vis spectrophotometry and spectrofluorometry

2018 – 2021 Bucharest, Romania

**KEY EXPERT** UNIVERSITY POLITEHNICA OF BUCHAREST

#### **Contingency of CBRN hazards and improvement of national security resources**

**PN-III-P1-1.2-PCCDI-2017-0395**

- obtaining coatings with self-cleaning properties
- formulating water-based paints and textile screen-printing pastes that mimic the specific green requirements for the forest environment, according to NATO and US standards
- sample analysis using UV/Vis spectrophotometry and spectrofluorometry
- performing microwave assisted extraction and ultrasound assisted extraction of natural pigments from vegetal materials and their stabilization

06/2017 – 09/2017 Bucharest, Romania

**SCIENTIFIC LABORATORY TECHNICIAN** NATIONAL RESEARCH AND DEVELOPMENT INSTITUTE FOR SOIL SCIENCE, AGROCHEMISTRY AND ENVIRONMENT – ICPA

- experience in the analysis of petroleum products from soil
- Fourier-transform Infrared Spectroscopy (FTIR)

## ● EDUCATION AND TRAINING

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01/10/2020 – CURRENT Bucharest, Romania

**PHD** Faculty of Chemical Engineering and Biotechnologies, UNST Politehnica Bucharest

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**Address** Bucharest, Romania, Bucharest, Romania

24/09/2018 – 24/06/2020 Bucharest, Romania

**MASTER'S DEGREE** Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest

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- Biofuels: technologies, integrated processes, expertise, additives
- Biochemistry
- Numerical methods and optimisations
- Chemical and biochemical reactors

For the diploma project, the paper entitled "Coloured materials with controlled emission and absorption based on natural dyes" was elaborated and graded with the maximum grade.

01/10/2014 – 07/07/2018 Bucharest, Romania

**BACHELOR'S DEGREE** Faculty of Engineering in Foreign Languages - University Politehnica of Bucharest

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- Organic Chemistry
- Dyes and Pigments
- Macromolecular Compounds
- Chemical Reactors
- Organic Technologies
- Professional Communication

For the diploma project, the paper entitled "Reactive Blue 2" was elaborated. It describes the synthesis technology of the above-mentioned pigment and it received a maximum grade.

## ● LANGUAGE SKILLS

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Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
<b>ENGLISH</b>	C1	C1	C1	C1	C1

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

## ● DIGITAL SKILLS

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Proficient user of the Microsoft Office package | Advanced user of ChemDraw, EndNote | Good knowledge of MatLab, Mathcad | Advanced knowledge of OriginPro

## ● ADDITIONAL INFORMATION

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### NETWORKS AND MEMBERSHIPS

2018 – CURRENT

**Memberships** Member of the Romanian Chemical Society

### ORGANISATIONAL SKILLS

**Organisational skills** 1. Ability to work individually and in teams with activity planning and time management, ability to perform experiments

2. Good organisational skills gained while managing the Chemistry Workshops

## **COMMUNICATION AND INTERPERSONAL SKILLS**

**Communication and interpersonal skills** Good communication skills gained through my experience as workshop trainer.

## **JOB-RELATED SKILLS**

### **Job-related skills**

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1. Ability to analyse and synthesize based on theoretical information resources (books, scientific reports and magazines etc.);
2. Ability to apply analytical methods in the organic chemistry research area;
3. Practical work skills in laboratory and awareness of practical applications as an effective way of learning;
4. Ability to design and compile a research report or a scientific study by correlating the results of professional work;
5. Ability to use specific terms;
6. Knowing and respecting the rules of ethics and ontology in the research activity;
7. Knowledge of basic theoretical principles and their correlation with the scientific research field;
8. Knowledge of the concepts of conducting a research project and the proper steps needed to prepare it;
9. Evaluation and analysis of experimental data;
10. Acquiring knowledge on the design and drafting of a scientific material, for example the diploma project.

## **SESSION OF SCIENTIFIC COMMUNICATIONS**

### **Session of scientific communications**

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Attendance at the 2019 Session of scientific communications organized by the Faculty of Applied Chemistry and Materials Science - UPB with the oral presentation entitled "Coloured materials with controlled emission and absorbance based on natural dyes". - first prize winner

Attendance at the 2020 Session of scientific communications organized by the Faculty of Applied Chemistry and Materials Science - UPB with the oral presentation entitled "Coloured materials with controlled emission and absorbance based on natural dyes". - first prize winner