

PERSONAL INFORMATION

Roberta-Geanina IRODIA



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Sex Female | Date of birth 17/05/1993 | Nationality Romanian

POSITION

Assistant Professor, Department of General Chemistry, Faculty of Applied Chemistry and Materials Science, Polytechnic University of Bucharest

WORK EXPERIENCE

2018 March-present

Assistant Professor

Department of General Chemistry, Faculty of Applied Chemistry and Materials Science, Polytechnic University of Bucharest

Business or sector: Teaching

2017 January-2018 June

Research Assistant; Chemical Engineer

Laboratory for Environmental and Fuel Analysis, National Institute for Research and Development for Energy ICEMENERG, Bucharest

Business or sector: Research, Fuel Analysis

2015 June-2015 September

Technological practice

Regional Agency for Environmental Protection, ARPM Bacau

EDUCATION AND TRAINING

2018-present

Ph.D

Doctoral thesis in the field of chemical engineering. Thesis title: Advanced oxidation processes for wastewater treatment. Coordinator: Prof.Dr.eng. Cristian PIRVU, cotutela with: Prof.Dr.eng. Cristina ORBECI; Doctoral School of the Faculty of Applied Chemistry and Materials Science, Polytechnic University of Bucharest

2016-2018

Master Degree

Elaboration of dissertation thesis in the field of environmental engineering. Thesis title: Determination of the content of Zn²⁺ ions in a surface water by atomic absorption method. Coordinator: Prof.Dr.eng. Cristina COSTACHE; Faculty of Applied Chemistry and Materials Science, Polytechnic University of Bucharest

Disciplines studied: Electrochemical processes applied in environmental protection; Design of air pollution control systems; Optimizing the use and recirculation of water on industrial platforms; Combating thermal pollution; Chemometry elements.

2012-2016 Bachelor Degree

Thesis in the field of chemical and environmental engineering with the title : Biological treatment of domestic wastewaters. Coordinato : Prof.Dr.eng Cristina COSTACHE ; Faculty of Applied Chemistry and Materials Science, Polytechnic University of Bucharest

Disciplines studied: Organic, Inorganic, Analytical, Physical Chemistry, Electrochemistry, Management; Economics; Informatics; Graphics; Water Treatment; Modeling the dynamics of pollutants in the environment; Environmental legislation.

2008-2012 Highschool

„Vasile Alecsandri” National College Bacau; Specialization: Natural sciences

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s) English, Spanish, French

Communication skills -Social skills and abilities (ability to argue and convince as a result of being involved in different activities carried out in the high school and in the workplace);
-Experience of working in team;

Digital competence Good command of office suite Microsoft Office – Word, Excell, Power Point ; AutoCAD, MathCAD, Chems sketch

- Organisational / managerial skills
- Member of the Romanian Chemical Society SChR;
 - Participation at oral presentations;
 - Volunteer “Other Week” – coordination of students coming from schools in the faculty departments;
 - Member of the P2 Regie Accommodation Committee (September 2014);
 - Voluntary member of the Student League of Chemistry from Polytechnic University;
 - Participant of the USA Work & Travel program.

ACADEMIC AND RESEARCH INTERESTS

- General research areas
- Natural and wastewater treatment;
 - Advanced processes for removing organic and inorganic pollutants from water;
 - Chemical and electrochemical synthesis of thin films such as TiO₂ nanostructures

- Scientific production
- Responsible for the European IRIS project – Smart cities. Integrated and Replicable Solutions for Co-Creation in Sustainable Cities (2017-2018);
 - Co-author of scientific article FOREN;
 - Attendance at 2 international conferences;

Didactic activity (Laboratory works)	Studies	Program Name/Faculty	Title	Activity type
	Bachelor	Automatic Control and Computers	General Chemistry	Laboratory works
		Electronics, Telecommunications and Information Technology	General Chemistry	Laboratory works
		Aerospace Engineering	General Chemistry	Laboratory works
		Applied Sciences	General Chemistry	Laboratory works
		Electrical Engineering	General Chemistry	Laboratory works
		Medical Engineering	Electrochemical processes in physiological environments	Laboratory works

Awards

- ✓ Ph.D scholarship;
- ✓ Head of grade, Environmental Engineering Department, 2016;
- ✓ Erasmus + Exchange. EnvYJobs- Environmental Learning Innovation for more Knowledge and Better Jobs (2016);
- ✓ Beneficiary of the IMPULS scholarship offered during the technological practice (2015);
- ✓ Faculty scholarship received for good grades during bachelor and master degree;
- ✓ Diploma obtained at different oral presentations;