






PERSONAL INFORMATION

Cernencu Ioana Alexandra



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Sex female | Date of birth 02/02/1991 | Nationality Romanian

AREAS OF EXPERTISE

- Reporting skills
- Undertaking research
- Surveys Academic Research
- Data collecting techniques
- Data validation

PERSONAL SUMMARY

As highly motivated Chemical Engineer I successfully combined my studies with work and other commitments showing myself to be self-motivated, organized and capable of working under pressure both independently and as part of a team. I have undertaken several internships as a research assistant in universities and research institutes achieving English proficiency and developing my interpersonal skills while working around Europe.

EDUCATION AND TRAINING

- 2014-2016** **MSc. Polymer Science and Engineering**  
University "POLITEHNICA" of Bucharest  
Faculty of Applied Chemistry and Materials Science
- 2010-2014** **Bachelor in Chemical Engineering**  
University "POLITEHNICA" of Bucharest  
Faculty of Engineering in Foreign Languages

WORK EXPERIENCE

- 1.10.2016 - present** **PhD student**  
**Doctoral Studies School "Faculty of Applied Chemistry and Materials Science"**  
Thesis Supervisor: Prof. Dr. Ing. Horia Iovu (iovu@tsocm.pub.ro /021 402 3922)  
▪ Title of thesis: New biopolymer based composites with targeted applications
- 1.11.2016 – present** **Research Assistant**  
**Advanced Polymer Materials Group, University "POLITEHNICA" of Bucharest**  
Building A, 1-7 Gh. Polizu Street, Sector 1, Bucharest, 011061  
Projects:
  - Design of cellulose–alginate films using PEG/NaOH aqueous solution as co-solvent;
  - Materiale dentare performante pe bază de compuși cu grupări tiol folosind strategia click-chemistry (POSS-containing hybrid nanomaterials based on thiol-epoxy click reaction) Nr. 58/2015 (proiect derulat 2015-2017)
  - Compozite inteligente printate 3D Nr. 81/2017
  - Abordari inovative avansate pentru medicina regenerativa predictiva (REGMED) 65 PCCDI/2018 Proiect component 2 "Sistem Biocompatibil pentru Asistarea Regenerarii Nervilor periferici", Proiect component 4 "Modularea Micromediului Tumoral cu Sisteme Inteligente destinate Reconstructiei Mamare

- 1. 10.2015 – 15.06.2016** **ERASMUS PROGRAMME - mobility for studies**  
**Faculty of Chemical and Metallurgical Engineering, Yildiz Technical University**  
 Davutpaşa Kampüsü, Taş Kışla Binası, A 1003-1004, Istanbul/Turcia  
 Prof. Dr. Sevil Yücel (syucel@yildiz.edu.tr /0090 530 4600 781)  
 ▪ Project: Silica Aerogel Nanoparticles for drug delivery in cancer treatment

- 1.11.2013 – 30.09.2014** **Research Assistant**  
**Centrul de Chimie Organica "Costin D. Nenitescu"**  
 Splaiul Independentei 202B, Sector 6, 71141 Bucuresti/Romania  
 Florina Teodorescu (florina.teodorescu@gmail.com/ 0040 747 27 1414)

- 23.06 –30.09. 2013** **ERASMUS PROGRAMME – Internship mobility**  
**Universidad de Valencia - Instituto de Ciencia Molecular**  
 Edificios Institutos de Paterna, Catedrático José Beltrán Martínez nº 2 46980 Paterna / Spain  
 Julia Pérez Prieto (julia.perez@uv.es / 0034 96 354 3050)  
 ▪ Projects: Research Synthesis and Characterization of CdSe Nanoparticles Photocatalysts si CdSe Organogel Nanoparticles as biosensor

**Job responsibilities** Work with academic members of the project team in order to deliver project outcomes. Perform complex research and experiments following innovative protocols and perform the following major duties that include but are not limited to: reading and comprehending reports and other scientific literature; conducting data analysis and computations; harvesting of field and/or laboratory samples; writing research reports based upon data results; and presenting data at conferences, scientific symposium and professional society meetings.

## PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	C1	B2	C2	B2	B2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user  
[Common European Framework of Reference for Languages](#)

## KEY SKILLS AND COMPETENCIES

- Extensive knowledge of spreadsheets and database tools
  - Ability to prioritize own work in response to deadlines
  - Able to plan research and organize tasks effectively
  - Ability to resolve problems independently
  - Possessing a creative approach to problem-solving
  - Flexible with working hours and having excellent interpersonal skills
  - Experience in carrying out experimental research
  - Knowledge of maintaining safe workplace practice and procedures in accordance with the requirements of Health and Safety legislation.
- Computer skills
- good command of Microsoft Office™ tools, Chemdraw, BioCAD™ and other programs related to chemical analysis and 3D design.

Job-related skills	As a part of my research I learned to set up data bases, descriptor calculation and modelling of data sets in chemical analysis.
Other skills	<ul style="list-style-type: none"> <li>I have a good freehand drawing and painting skills and I have designed brochures and posters also using computer techniques.</li> </ul>
Driving licence	Yes, valid since 2014

#### ADDITIONAL INFORMATION

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Publications	<ul style="list-style-type: none"> <li>“POSS-containing hybrid nanomaterials based on thiol-epoxy click reaction.”, Adriana Lungu, Jana Ghitman, Alexandra I.Cernencu, Andrada Serafim, Nicoleta M.Florea, Eugeniu Vasile, Horia Iovu. Polymer 145 (2018): 324-333. doi.org/10.1016/j.polymer.2018.05.015</li> </ul>
Presentations	
Projects	
Conferences	<ul style="list-style-type: none"> <li>“Design of cellulose–alginate films using PEG/NaOH aqueous solution as co-solvent.”, Alexandra Ioana Cernencu, Adriana Lungu, Diana Dragusin, Andrada Serafim, Eugeniu Vasile, Cristina Ionescu, Horia Iovu, Cellulose 2017, 24: 4419. doi.org/10.1007/s10570-017-1412-9.</li> </ul>
Seminars	
Honours and awards	<ul style="list-style-type: none"> <li>13th International Conference on Materials Chemistry July 2017 Liverpool, U, “Novel Thiol-Epoxy-POSS Hybrid “Click” Systems”, Alexandra Ioana Cernencu, Jana Ghitman, Adriana Lungu, Horia Iovu. – poster session</li> </ul>
Memberships	
References	
Citations	
Courses	
Certifications	<ul style="list-style-type: none"> <li>NanoWorld Conference - April, 2016, Boston USA, “Effect of Nanoporous Silica Aerogel Structure for Vitamin C Release”, Ecem TİRYAKİ, Alexandra CERNENCU, Yeliz ELALMIŞ, Burcu KARAKUZU, Sevil YÜCEL – poster session</li> <li>Young Scientists Joining Forces For Excellence In Biomaterials Research Workshop - May 2015, Bucharest, Romania, “Design of Cellulose-based Films for Regenerative Medicine Applications” – Alexandra Ioana Cernencu, Adriana Lungu, Diana Dragusin, Andrada Serafim, Eugeniu Vasile, Horia Iovu - Best Poster Award.</li> <li>Students’ Scientific Session of Bioresources and Polymer Science – May 2015, Bucharest, Romania, “Microcrystalline Cellulose-based polymeric films for biomedical applications” - Second place. Scientific Coordinators: Prof. dr. ing. Horia IOVU, S.I. dr. ing. Adriana LUNGU</li> <li>Students Scientific Session of Biomaterials – April 2014, Istanbul, Turkey, paper “Coronary Stents for cardiovascular blockage caused by arteriosclerosis” - First place. Scientific Coordinator: Prof. Dr. Sevil Yucel</li> <li>Students’ Scientific Session of Inorganic Chemistry - May 2012 Bucharest, Romania “Composite materials for solid oxide fuel cell anodes” - Second place. Scientific Coordinator: Prof. dr. ing. Daniela Cristina BERGER</li> <li>Students’ English Session – May 2012, Bucharest, Romania</li> <li>paper “Food Chemistry”- Award Scientific Coordinator: Lect. univ. dr. Elena SAVU</li> <li>Students’ Scientific Session of Inorganic Chemistry – May 2011 Bucharest, Romania “Nanomaterials with biomedical applications” – Award. Scientific Coordinator: Prof. dr. ing. Daniela Cristina BERGER</li> </ul>

#### ANNEXES

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- available on request.