

# Europass Curriculum vitae

## Personal information

Nom(s) / Prenom(s) Ghimis (Troncea) Simona, Bianca  
Address(es) Bucharest, Romania  
Telephone(s) - Mobile: +40762868899  
Fax(es) -  
E-mail(s) simonaghimis@gmail.com  
Nationality(-ies) Romanian  
Date of birth 12.06.1985  
Gender Female

## Work experience

October 2012 - present  
PhD student  
University of Bucharest - Romania and Lille 1 University – France  
Dates PhD Scholarship France-Romania, Lille 1University. 1.10.2013-1.04.2015

December 2011 - present  
Occupation or position held Scientific research in chemistry  
Main activities and responsibilities Scientific research in the field of bioresources exploitation of microalgae  
Name and address of employer ICECHIM, Splaiul Independentei, NO. 202, Bucharest, 060021, Romania  
Type of business or sector Scientific research  
Dates September 2008 - December 2011  
Occupation or position held Scientific research assistant in chemistry  
Main activities and responsibilities Scientific research in the field of bioresources exploitation of microalgae  
Name and address of employer ICECHIM, Splaiul Independentei, NO. 202, Bucharest, 060021, Romania  
Type of business or sector Scientific research

## Education and training

Dates 2008 –2010  
Title of qualification awarded Master's in molecular materials chemistry  
Principal subjects/occupational skills covered The study of molecular materials: synthesis, characterization, physico-chemical and catalytic processes  
Name and type of organisation providing education and training University of Bucharest, Faculty of Chemistry

Dates 2004 – 2008  
Title of qualification awarded Chemist  
Principal subjects/occupational skills covered Inorganic Chemistry  
Name and type of organisation providing education and training University of Bucharest, Faculty of Chemistry

**Personal skills and competences**

Mother tongue (s) **Romanian**

Other language (s)

Self-assessment

European level (\*)

**French**

**English**

**Russian**

<b>Understanding</b>				<b>Speaking</b>				<b>Writing</b>	
Listening		Reading		Spoken interaction		Spoken production		Written expression	
C 1	Proficient user	C 2	Proficient user	B 1	Independent user	B 1	Independent user	B 2	Independent user
B 2	Independent user	B 2	Independent user	A 2	Basic user	A 2	Basic user	B 1	Independent user
B 1	Independent user	B 1	Independent user	A 1	Basic user	A 1	Basic user	A 1	Basic user

(\*) Common European Framework of Reference (CEF) level

Social skill and competences

Very good collaboration with colleagues and superiors, team spirit, skills acquired while working in Bucharest ICECHIM team.

Computer skills and competences

A good mastery of the tools Microsoft Office™ ( Word™, Excel™, Power Point™), Internet. Isis Draw basic knowledge.

Artistic skills and competences

Painting, music.

Other competencies and skills

Dance, sports (aerobics).

Driving license

Category B

**Additional information**

Areas of research (keywords)

Greenchemistry, Bioresources, Biorefinery; Biosequestration of CO<sub>2</sub>, Microalgae, Biomass, Bioproducts.

Specializations and qualifications

2008 – Course of European legislation on dangerous chemicals, Bucharest, Romania  
2010 – Course of Manager Proiect, Bucharest Romania

Awards | 2019- Co-author :Presentation : „Pt –based catalyst hierarhical porosity:application to the hydrogenation of nitrites in liquid phase” – RomCat 2019, Bucharest

2019-Co-author: Poster: ”Comparative effect of CeO<sub>2</sub>-ZrO<sub>2</sub> support material on the catalytic behavior of Pd particles in water denitrification: A kinetic approach” – RomCat 2019, Bucharest

2019- Author: Poster: „ Nanostructured Fe-Cu catalyst for pyrolysis of digestates from anaerobic co-digestion plants” – RomCat 2019, Bucharest

2015- First prize for work: Presentation,Synthesis and characterisation of mesoporous Ce<sub>0.5</sub>Zr<sub>0.5</sub>O<sub>2</sub> for the water denitrification reaction, SCSS University of Bucharest, 05.2015

2015- Author: Presentation : ” Palladium - based catalysts for the water denitrification reaction” – PhD Days- 2015 –Lille 1 University

2015– Co-author, Poster, EFFICIENT CONVERSION OF LIGNOCELLULOSIC BIOMASS IN FURFURAL AND ITS DERIVATIVES , Bucharest, ICECHIM, Priochem 2015

2014- Author:Poster : “Synthesis and characterisation of nanostructured CeO<sub>2</sub>-ZrO<sub>2</sub> mixed oxides” - ”Demi-journée recherche à l'UFR de Chimie” - Lille, 26.03.2014

2014 – Author: Presentation : ” Development of materials type perovskites for environmental applied catalysis ” - PhD Days- 2014 –Lille 1 University

2014 - Author: Presentation: “Correlation of synthesis routes with structural characteristics of mesoporous Ce<sub>0.5</sub>Zr<sub>0.5</sub>O<sub>2</sub> catalysts” - Journées Nord-Ouest Européennes des Jeunes Chercheurs, Villeneuve d'Ascq, 23-24.06. 2014

2014- Author: Presentation: “Catalytic reduction of nitrites in water solution on ordered mesoporous Ce<sub>0.5</sub>Zr<sub>0.5</sub>O<sub>2</sub> catalysts” - International Symposium on Air & Water Pollution Abatement Catalysis / AWPAC- Poland, 1-5.09.2014

2014 – Author:Poster: “Synthesis and characterisation of ordered mesoporous Ce<sub>0.5</sub>Zr<sub>0.5</sub>O<sub>2</sub> for the water denitrification reaction” - 6th Szeged International Workshop on Advances in Nanoscience / Siwan 6- Hungary, 15-18.10.2014

2014- Author, Poster:” Nitrate removal by catalytic reduction with hydrogen”, Priochem , ICECHIM, Bucharest, 30-31 .10. 2014.

2013 – Co-Author,presentation: „ Evaluation of electro-flocculation for harvesting of fresh water microalgae”, PRIOCHEM - 14th Edition Bucharest, ICECHIM, 10 – 12.10. 2018

2013- Author: Poster: ” Development of new catalytic system based on nanostructured perovskite for DeNO<sub>x</sub> process“, 8th International Conference of the Chemical Societies of the South-East European Countries Belgrade, Serbia, June 27-29, 2013

2013- Co-author:Poster: ”DEVELOPMENT OF A PROCESS FOR ENZYMATIC PROTEIN HYDROLYSATES FROM GREEN ALGA *DESMODESMUS COMMUNIS*”, 8th International Conference of the Chemical Societies of the South-East European Countries , Belgrade, Serbia, June 27-29, 2013

2012- Participation with paper,„DEVELOPMENT OF A PROCESS FOR ENZYMATIC PROTEIN HYDROLYSATES FROM GREEN ALGA *DESMODESMUS COMMUNIS*”, International Symposium “ PRIOCHEM - Priorities of Chemistry for a Sustainable Development”, October 25-26 , Bucharest, Romania.

Scientific papers published

2011 - Participation with paper „OPTIMIZATION OF HARVESTING CONDITIONS AND OIL PRODUCTION FROM ALGAL BIOMASS”, International Symposium “ PRIOCHEM - Priorities of Chemistry for a Sustainable Development”, October 27-28 , Bucharest, Romania.

2011 - Participation with paper „VALORIZATION OF ALGAL BIOMASS OF SCENEDESMUS OPOLIENSIS TO OBTAIN LIPIDS”, UBIOCHEM Symposium, January 20-21, Utrecht, Netherlands.

2010 - First prize for work “OPTIMIZATION OF GROWTH CONDITIONS OF SCENEDESMUS OPOLIENSIS STRAIN”, International Symposium “ PRIOCHEM - Priorities of Chemistry for a Sustainable Development”, October 28-29 , Bucharest, Romania.

2010 – Third Prize for work “GLYCEROL ACETYLATION USING HYDROFLUORIDES  $\text{MGF}_{2-x}(\text{OH})_x$  CATALYST “, Student Scientific Session of the Faculty of Chemistry, University of Bucharest, Romania.

2008 – Second prize for work “A NEW COMPOUND BINUCLEAR Mn (III) - Cr (III) BUILT IN UNIT [Mn (3Meo-Salen)] + AND PRECURSORS ANION [Cr(ox)<sub>2</sub>bpy] . SYNTHESIS, CRYSTALLINE STRUCTURE AND MAGNETIC PROPERTIES “, Student Scientific Session of the Faculty of Chemistry, University of Bucharest, Romania..

Co-author: Pascal Granger; **Simona Troncea (Ghimis)**; Jean-Philippe Dacquin; Martine Trentesaux; Olivier Gardoll; Nicolas Nuns, Peculiar kinetic properties of Cu-doped Pd/CexZr1-xO2 in water denitrification : Impact of Pd-Cu interaction vs structural properties of CexZr1-xO2, Journal: Applied Catalysis B: Environmental, 2019

Co-author: A.C. Sunil Sekhar, A.Zaki, **S.Troncea (Ghimis)**, S.Casale, P.Vinod, J.P.Dacquin, P.Granger, Enhanced selectivity of 3-D ordered macroporous Pt/Al2O3 catalysts in nitrites removal from water; Applied Catalysis A: General, Volume 564, 25 August 2018, Pages 26-32

Co-author: P.Granger, **S.Troncea (Ghimis)**, J.P.Dacquin, M.Trentesaux, V.I.Parvulescu, Support-induced effect on the catalytic properties of Pd particles in water denitrification: Impact of surface and structural features of mesoporous ceria-zirconia support; Applied Catalysis B: Environmental, Volume 224, May 2018, Pages 648-659

Co-author: “ The influence of ethanol concentration on the total phenolics and antioxidant activity of Scenedesmus opoliensis algal biomass extracts”, Stoica, R., Velea, S., Ilie, L., Calugareanu, M., **Ghimis, S.B.**, Ion, R.-M., Revista de Chimie, Volume 64, Issue 3, March 2013, Pages 304-306.

Author: “Hydroxylated magnesium fluorides as environmentally friendly catalysts for glycerol acetylation”, **Simona B. Troncea**, Stefan Wuttke, Erhard Kemnitz, Simona M. Coman, Vasile I. Parvulescu, Applied Catalysis B: Environmental, 107 (2011) 260– 267.

Co- author: „Silver nanoparticles produced by green production method” Ioana Bunghez, Rodica Ion, Sanda Velea, Lucia Ilie, Radu Claudiu Fierascu, Irina Dumitriu, Angela Dinu, **Simona Troncea**, 2010, Proc. SPIE 7821, 78211K (2010); doi:10.1117/12.882053

Patent, Co-author: ”Tulpina de *Scenedesmus Opoliensis* si procedeu de obtinere a uleiului algal prin cultivarea acesteia ”

Authors: Velea Sanda; Rovinaru Camelia; Stilpeanu Daniela Leliena; **Ghimis Simona Bianca**; Dragos Nicolae; Bica Adriana; Oancea Florin  
Brevet acordat: RO 128750 B1