

# Curriculum Vitae



## Personal information

First name/ Surname **Anamaria PADUREAN**  
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[apadurean@gmail.com](mailto:apadurean@gmail.com) (personal e-mail address)  
Nationality Romanian  
Date of birth 25.07.1985  
Gender Female

## Occupational field

**PhD Student**  
**Process Systems Engineering**  
**Carbon Capture Technologies**  
**Modelling and Simulation of Chemical Process**  
**Computer Aided Process Engineering**  
**Clean Coal Technologies**

## Work experience

Dates June 2008 – October 2008  
Occupation or position held Restaurant Assistant manager  
Main activities and responsibilities Ensuring supervision and personnel coordination, tacking orders, writing and cashing bills, stock indexing, coordinating supplies, handling new staff interviews  
Name and address of employer Work and Travel USA 2008 Program – Florentine caffe, 333 Hanover st, BOSTON, MA 02133, USA  
Dates June 2007 – October 2007  
Occupation or position held Hostess  
Main activities and responsibilities Insuring an efficient communication between wait staff and customers, greeting and informing clients, taking phone calls and reservations  
Name and address of employer Work and Travel USA 2007 Program – Emidio's Italian Restaurant, 417 Hanover st, BOSTON, MA 02133, USA  
Dates June 2006 – October 2006  
Occupation or position held Sales agent  
Main activities and responsibilities Taking phone calls, informing clients, customer service  
Name and address of employer Work and Travel USA 2006 Program – Trani Pastry Shop, 111 Salem st., BOSTON, MA 02133, USA

## Education and training

Dates	April 2011 – November 2011
Occupation and position held	Visiting researcher
Main activities	Modelling and simulation of chemical processes focusing on carbon dioxide capture technologies based on chemical looping combustion
Name and type of organisation providing education and training	Vienna University of Technology Faculty of Technical Chemistry, Institute of Chemical Engineering Department of Zero Emission Technologies Getreidemarkt 9, 1060 Wien Tutors: Univ-Prof. Dr. Hermann Hofbauer, <a href="mailto:hermann.hofbauer@tuwien.ac.at">hermann.hofbauer@tuwien.ac.at</a> Dr. Tobias Proell, <a href="mailto:tobias.proell@tuwien.ac.at">tobias.proell@tuwien.ac.at</a>
Dates	July 2011
Occupation and position held	PhD student researcher
Name and type of organisation providing education and training	International Energy Agency Greenhouse Gas T&D Programme (IEAGHG) International Summer School 2011 University of Illinois, USA 615 East Peabody Dr. Champaign, IL 61820, Tel: 217-244-4068
Dates	October 2009 - Present
Title of qualification awarded	PhD in Chemical Engineering – expected in September 2012
Principal subject	Specialisation: Process Systems Engineering “Innovative systems for carbon dioxide capture in energy conversion systems”
Name and type of organisation providing education and training	Faculty of Chemistry and Chemical Engineering, “Babes-Bolyai” University of Cluj-Napoca, Romania
Level in national or international classification	International Standard Classification of Education (ISCED)6
Dates	October 2009 – February 2011
Title of qualification awarded	MSc in Chemical Engineering
Principal subjects	Specialisation: Advanced Process Engineering “Multicriterial analysis of post-combustion carbon dioxide capture using alkanolamine”
Name and type of organisation providing education and training	Faculty of Chemistry and Chemical Engineering, “Babes-Bolyai” University of Cluj-Napoca, Romania
Level in national or international classification	International Standard Classification of Education (ISCED)6
Dates	October 2004 – June 2009
Title of qualification awarded	BSc in Chemical Engineering
Principal subjects	Specialisation: Computer Science of Chemical Systems. Process Systems Engineering. BSc final paper title: “Modelling and simulation of carbon dioxide absorption process”
Name and type of organisation providing education and training	Faculty of Chemistry and Chemical Engineering, “Babes-Bolyai” University of Cluj-Napoca, Romania
Level in national or international classification	International Standard Classification of Education (ISCED)5
Dates	March 2009
Title of qualification awarded	Certificate of Linguistic Competence in French
Name and type of organisation providing education and training	Alpha Center, “Babes-Bolyai” University of Cluj-Napoca, Romania
Dates	October 2004 – June 2008
Title of qualification awarded	Certificate of graduation of Pedagogic Module

Principal subjects | The certificate provides the licence to teach chemistry and chemical engineering related courses.

Name and type of organisation providing education and training | “Babes-Bolyai” University of Cluj-Napoca, Romania

Dates | May – September 2004

Title of qualification awarded | Professional attested

Principal subjects | Computer operating skills

Name and type of organisation providing education and training | “Transilvania” Technical college, Cluj-Napoca, Romania

Dates | September 2000 – June 2004

Title of qualification awarded | High school graduate

Principal subjects/occupational skills covered | Specialisation: Mathematics-informatics

Name and type of organisation providing education and training | “Lucian-Blaga” High School, Cluj-Napoca, Cluj, Romania

Level in national or international classification | International Standard Classification of Education (ISCED)3

**Personal skills and competences**

Mother tongue | **Romanian**

Other language(s)

Self-assessment  
*European level*

**English**

**French**

**Spanish**

**German**

Understanding		Speaking		Writing
Listening	Reading	Spoken interaction	Spoken production	
C2 Proficient user	C2 Proficient user	C1 Proficient user	C1 Proficient user	C2 Proficient user
B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user
A1 Independent user	A1 Independent user	A1 Independent user	A1 Independent user	A1 Independent user
A1 Independent user	A1 Independent user	A1 Independent user	A1 Independent user	A1 Independent user

Social skills and competences | Responsible, Organisation ability, Problem-solving ability, Team work abilities, Serious

Technical skills and competences | Mathematical modelling of processes

Computer skills and competences | Ipe PRO, ChemCAD, Aspen Plus, Matlab, Matlab/Simulink, ChemWin , Mercury, Crystal Ball, Microsoft Office (Word, Excel, Power Point)

Driving licence | B category

### 1. Publications:

1. **Anamaria Padurean**, Calin-Cristian Cormos, Paul Serban Agachi, *Pre-combustion carbon dioxide capture by gas-liquid absorption for Integrated Gasification Combined Cycle power plants*, International Journal of Greenhouse Gas Control, 7 (2012), 1-11
2. Stefan Penthor, **Anamaria Padurean**, Johannes Schmid, Tobias Pröll, Paul Serban Agachi, Hermann Hofbauer, *Direct solid fuel CLC using biomass*, 3<sup>rd</sup> IEAGHG Network Meeting and Technical Workshop on High Temperature Solid Looping Cycles, Vienna University of Technology, 30-31 August 2011, Vienna
3. Calin-Cristian Cormos, **Anamaria Padurean**, Ana-Maria Cormos, Paul Serban Agachi, *Power generation based on coal and low-grade fuels co-gasification with carbon capture and storage*, Clean Coal Conference – CCT2011, Zaragoza, Spain, 2011
4. **Anamaria Padurean**, Calin-Cristian Cormos, Ana-Maria Cormos, Paul Serban Agachi, *Multicriterial analysis of post-combustion carbon dioxide capture using alkanolamine*, International Journal of Greenhouse Gas Control, 5 (2011) 676-685
5. Calin Cristian Cormos, **Anamaria Padurean**, Paul Serban Agachi, *Technical evaluations of carbon capture options for power generation from coal and biomass based on integrated gasification combined cycle scheme*, International Conference on Greenhouse Gas Technologies (GHGT-10 -19-23 September 2010 RAI Amsterdam, The Netherlands), Energy Procedia, 4, 1861–1868, 2011
6. **Anamaria Padurean**, Calin-Cristian Cormos, Ana-Maria Cormos, Paul Serban Agachi, *Technical assessment of CO<sub>2</sub> capture using alkanolamines solutions*, Studia Universitatis Babeş-Bolyai, Chemia, LV,1, 55-64, Romania, 2010
7. Ana-Maria Cormos, Jozsef Gaspar, **Anamaria Padurean**, Calin – Cristian Cormos, Paul Serban Agachi, *Techno-economical analysis of carbon dioxide absorption in mono-ethanolamine by mathematical modeling and simulation*, 20<sup>th</sup> European Symposium on computer aided process engineering (ESCAPE-20), 1691- 1698, 2010
8. Ana-Maria Cormos, Jozsef Gaspar, **Anamaria Padurean**, *Modelling and simulation of carbon dioxide absorption in monoethanolamine in packed absorption columns*, Studia Universitatis Babeş-Bolyai, Chemia, LIV, 3, 37-48, Romania, 2009