

Curriculum vitae Europass



Personal Information					
First name / Surname	Gogu Constantin Radu				
Address	Bd. Lacul Tei 127, sect. 2, Bucharest, Romania				
Telephone	+40 (0) 21 24212 08 Mobil: +40 (0) 724 99 91 33				
E-mail	radu.gogu@utcb.ro				
Nationality	Romanian				
Date of birth	18.09.1966				
Gender	Male				
Education					
Date	1997 - 2000				
Qualification/ Diploma	PhD. in Applied Sciences – with the thesis title: Advances in groundwater protection strategy Using vulnerability mapping and hydrogeological GIS databases [in English]				
Institution	Laboratory of Engineering Geology, Hydrogeology and Geophysical Prospecting, Belgium				
Date	1992 - 1994				
Qualification/ Diploma	Master of Sciences– with the paper title: Study on the seepage through heterogeneous rocks (case study: The Poiana Uzului dam) [in French]				
Institution	Technical University of Civil Engineering-Bucharest, School of Mines Paris-France, Pierre et Marie Curie, University-France, Liege University-Belgium, Genoa University-Italy, TEMPUS Program				
Date	1985 - 1990				
Qualification/ Diploma	Diploma of Engineer in Hydraulic Structures - with the Diploma Paper: Study on a 3D numerical modeling simulation of a underground hydro-power station excavation (case study: Rucar hydro-power station)				
Institution	Technical University of Civil Engineering - Bucharest, Romania				
Experience					
Date	Since 2011				
Position	Director - Groundwater Engineering Research Centre (CCIAS)				
Employer	Technical University for Civil Engineering, Bucharest, Romania				
Date	Since 02.2009				
Position	Senior Lecturer				
Employer	Technical University for Civil Engineering, Bucharest, Romania				
Date	2006 – 2009				
Position	Senior Researcher				
Employer	Technical University of Catalonia (UPC), Department of Geotechnical Engineering and Geo-Sciences, Barcelona, Spain				
Date	2003 - 2005				
Position	Project Coordinator & Spatial database designer – HazNETH Project				
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Employer	Swiss Federal Institute of Technology (ETH) - Department of Cartography, Switzerland
Date	2000 - 2003
Position	Researcher & Spatial database designer – GEOWARN Project
Employer	Swiss Federal Institute of Technology (ETH) - Department of Cartography, Switzerland
Date	1997 - 2000
Position	Research engineer
Employer	University of Liege, Laboratory of Engineering Geology, Hydrogeology and Geophysical Prospecting (LGIH), Belgium
Date	1997 - 2000
Position	Senior Lecturer
Employer	Technical University for Civil Engineering - Bucharest
Date	1995 - 1997
Position	Doctoral research engineer and Co-ordinator
Employer	Technical University of Civil Engineering Bucharest, Department of Hydraulic Structures, Computing Centre
Date	1994 - 1997
Position	Program Co-ordinator - GIS Postgraduate Course
Employer	UNIGIS network (Manchester Metropolitan University, University of Salzburg, Free University of Amsterdam, University of Salford, University of Huddersfield, Technical University of Civil Engineering Bucharest)
Date	1993 - 1996
Position	Lecturer - Water Resources Engineering Courses, General Computer knowledge and the FORTRAN Programming Course
Employer	Technical University of Civil Engineering Bucharest
Date	1993 - 1996
Position	Assistant manager - Water Resources Engineering Courses
Employer	Technical University of Civil Engineering Bucharest
Date	1993 - 1995
Position	Research engineer and Co-ordinator
Employer	Technical University of Civil Engineering Bucharest, Department of Hydraulic Structures, Computing Centre
Date	1990 - 1992
Position	Analyst - Civil Engineer
Employer	Ministry of Public Works and Regional Planning, Computing Centre
Date	1991 - 1992
Position	Lecturer
Employer	Technical University of Civil Engineering Bucharest, Department of Elasticity and Plasticity Theory
Date	1991 - 1992
Position	Analyst-Programmer - ANCAV program (FORTRAN on minicomputer, C++ on PC) designed for underground structures' analysis - Finite Element Method
Employer	Technical University of Civil Engineering Bucharest, Department of Elasticity and Plasticity Theory

PositionBucharest Subway - construction site (tunnel excavation, concrete walls execution, seepage problems, topographical measurement)EmployerBucharest SubwayGrants / Fellowships2004Date2004GrantResearch Grant awarded by Ministry of Research (Spain)-frame of "Ramon y Cajal" Progran 230.000 euroDate1999PositionGrant awarded by Walloon Region (Belgium) for the project entitled "Aquifers vulnerability study based on GIS"- 5.000 euroDate1998PositionResearch Fellowship awarded by Belgian Office for Scientific, Technical and Cultural Affairs the research project entitled "Application of Geographical Information Syste to optimise the	
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the research project entitled "Application of Geographical Information Syste to optimise the	
preparation of spatial data for groundwater modelling applied in Global Change scenarios" - euro	
Date 1997	
Position Grant awarded by Research Support Scheme of the Open Society Institute/Higher education Support Programme - Prague, Czech Republic for the research project "Groundwater Vulnerability Assessment in Romania, Using Geographical Information Systems" - 10.000 e	
Projects participation	
Since 2010 - Project Director – SIMPA Project - Technical University for Civil Engineering, Bucharest, Romania - Budget: 3.904.117 lei (907.900 euro) - <i>National Authority for Scientific</i> <i>Research</i>	
2007 – 2010 - Project Director – ECAVAS Project - Technical University for Civil Engineer Bucharest, Romania - Budget: 1.295.665 lei (301.300 euro) - <i>Romanian Executive Agency fo</i> <i>Education, Research, Development and Innovation Funding</i>	
01.2011 – 2013 - Researcher - Tailored Improvement of Brownfield Regeneration in Europe TIMBRE; (www.timbre-project.eu), Funded by EU - FP7	-
05.2007 – 11.2009 - Project Director – HEROES Project (Spanish National Research Pro Technical University of Catalonia, Spain 100.000 euro - Ministry of Research - Spain	oject) -
10.2007 – 11.2009 Team leader, GIS solution development, 3D model designer - 3D geo model of the sedimentary media in the Barcelona region to predict the behavior of the tunne machine excavating the Subway L9 line. (Barcelona City - Airport) - GEO – 3D; Technical U of Catalonia, Spain	ling
02.2006 – 2009 - Researcher , Spatial database designer , GIS analyst - GEOMODELS re several universities and public research organizations having the purpose of applying and de new geosciences technologies	
01.2006 – 2009 - Romanian team coordinator in charge with the GIS based Decision St System (DSS) - Groundwater Artificial recharge Based on Alternative sources of wateR: aD Integrated technologies and managEment – GABARDINE; Funded by EU - FP6; (www.gaba fp6.org/home.aspx), - 60.000 euro (Romanian partner)	vanced
08.2006 – 11.2008 - Spatial data developer, Geohidroconsult team coordinator - Techni technology and ontology for geospatial data and services portals – TITOS	ques,
08.2006 – 11.2008 - Team leader GIS solution implementation, Spatial database design Integrated Information System for elaborating the Romanian Groundwater Atlas - SITAR	
08.2006 – 11.2007- Team leader, Project initiator – Sustaining Romanian research applied groundwater vulnerability and protection at the European level – AQUAPROTECT (www.aquaprotect.ro)	l to

11.2005 – 2007- **GIS analyst** - Spatial Data Infrastructures with Applications in Environment Protection - INSPAM

05.2003 – 12.2004 - **GIS analyst, Researcher -** Open Architecture and Spatial Data Infrastructure for Risk Management- ORCHESTRA; Funded by EU - FP6 (IST) (<u>http://www.eu-orchestra.org</u>)

02.1999 – 08.2000 - **GIS analyst - GIS team coordinator and trainer -** Prototype hydrogeological maps for the Walloon region, Belgium (Waremme–Momalle and Modave-Clavier, scale 1:25,000)

10.1998 – 08.2000 - **Spatial database designer, GIS analyst -** Hydrogeological data base design – University of Liege/Department of Natural Resources and Environment - Ministry of the Walloon Region

05.1998 – 05.1999 - **PI, Researcher, GIS analyst** - Application of Geographical Information Systems to optimize the preparation of spatial data for groundwater modeling applied in Global Change scenarios - Belgian Office for Scientific, Technical and Cultural Affairs

Achievements

Over **40 research studies** and about **35 scientific publications** – including 2 course notes and scientific articles in Computers and Geosciences (Elsevier), Remote Sensing of Environment (Elsevier), Environmental Geology, Hydrogeology Journal (Springer), Cartographica (University of Victoria, Canada).

Scientific reviewer for Journal of Environmental Management (Elsevier), Advances in Water Resources (Elsevier), Water Resources Management (Elsevier), Hydrogeology Journal (Springer), Groundwater (Blackwell).

Since 2011 - Initiated, organized, and currently coordinating the Groundwater Engineering Research Centre (CCIAS) in the Technical University of Civil Engineering (<u>www.ccias.utcb.ro</u>)

Since 2011 - Coordinator of the Postdoctoral Research Program in Applied Hydraulics -Technical University of Civil Engineering

2011 - Member of the PhD Committee for the PhD in Environmental Sciences thesis submitted by Alberto Jimenez-Madrid entitled: "Establishing safeguard areas for the protection of groundwater intended for human consumption in karst media as required by Water Framework Directive", Faculty of Science. University of Malaga (Spain).

2011 - Set-up a **hydrogeological experimental site** (five wells, up to 25 m in depth, equipped with pumps and monitoring equipment) with the purpose to: (1) develop experimental research work and (2) for teaching purposes "in situ" hydrogeologic (pumping and tracer tests) and geophysical measurements (electrical sounding and profiling).

2011 - **Organized** a postgraduate course dedicated to the protection of groundwater resources at the Technical University for Civil Engineering, Bucharest.

2010 - Introduced a new curriculum of "Environmental engineering spatial data models.Geospatial analysis fundaments" for the Master of Science level in Sustainable development (Technical University of Civil Engineering University).

2008 - 2012 - One of the PhD **thesis coordinators** of Violeta Velasco at Technical University of Catalonia, Barcelona (Spain), Department of Geotechnical Engineering and Geosciences. Subject: "Improving hydrogeological models of sedimentary media in an urban environment using GIS based 3D geological instruments"

2006 – 2012 - **Committee member** to evaluate different Master of Sciences and Diploma paper works at the Technical University of Catalonia, Barcelona (Spain) and at the Technical University of Civil Engineering (Bucharest);

2006 -2009 - **Designing and developing the hydrogeological spatial database** of Barcelona region (Barcelona, Delta de Llobregat, Belta del Besos)- Spatial query and analysis tools for geochemical data and geological analysis to improve groundwater models, Technical University of Catalonia, Barcelona, Spain

2003 – 2005 - **Designing, setting-up, developing, and coordinating the project** "Geo-spatial system for natural hazard assessment studies in Switzerland" (www.hazneth.ethz.ch) - (ETH - IKA), Swiss Federal Institute of Technology, Switzerland

2000 – 2003 - **Designing and developing the GEOWARN spatial database** for data management of dormant volcano monitoring system - (ETH - IKA), Swiss Federal Institute of Technology, Switzerland

English French German	C2 Proficient user C	C2 Proficient user C2 Proficient user	C2Proficient userC2Proficient userC2Proficient userC2Proficient user	er C1 Proficient user			
•			C2 Proficient user C2 Proficient use				
English							
	C2 Proficient user C	2 Proficient user	C2 Proficient user C2 Proficient use	er C2 Proficient user			
European level (*)	Listening	Reading	Spoken interaction Spoken productio				
Self-assessment	Understa	•	Speaking	Writing			
Other language(s)	I		l l	1			
Mother tongue(s)	Romanian						
competences							
Personal skills and							
	<i>Cadastre</i> [*] , Bucharest, Romania						
	University of Huddersfield, Technical University of Civil Engineering Bucharest, Sinaia, Romania 03.1996 – Organizer - The international seminar: " <i>Geographical Information Systems on Urban</i>						
	Metropolitan University, University of Salzburg, Free University of Amsterdam, University of Salford,						
	Neuchatel, Switzerland, March 1998-Liege-Belgium 11.1998 – Organizer - "3rd Annual Big Meeting of UNIGIS Universities network": Manchester						
	carbonate (karst) aquifers", April 1999-St. Veit/Glan, Austria, October 1998-Bled, Slovenia, May 1998-						
	USGS Menlo Park, California, USA 1998 – 2001 - Invited speaker - COST-A620 - "Vulnerability and risk mapping for the protection of						
	12.2002 - Special guest (expertise) - The "2 nd Workshop World Organisation of Volcano Observatories,						
	2002 – 2003 – Delegate - Delegate of the Swiss Federal Institute of Technology (ETH Zurich-IKA) – to the EU to defend the spatial data infrastructures part of the GEOWARN project - frame of IST - (FP5)						
	frame of Information Society Technology (FP6) – Finalised with the participation of ETH Zurich - IKA in the ORCHESTRA (http://www.eu-orchestra.org) consortium						
	of Cartography (IKA) to	o the European Co	Swiss Federal Institute of Technology ommunity (EU) to negotiate collaborat	ion partnerships in the			
	Les Preses (La Garrotxa	a), Catalunia, Tech	nical University of Catalunia, Spain				
	• ·		narest, Faculty of Geology and Geophy n Hydrogeology <i>"Hydrogeology, the Un</i>				
	2006 – 2007 – Organi z		workshops (4 events) on "Sustaining				
	08 – 11. 10.2008 – Organizer - The international workshop: <i>Current trends in hydrogeology modeling and investigation techniques as support for groundwater management and protection,</i> Danube Delta, Tulcea, Romania;						
		, ,	gineering, Bucharest, Romania ational workshop: <i>Current trends in hyc</i>	lrogeologv modelina			
	05.05.2010 – Organize	er - The internation	nal workshop "Flood Risk Assessmen	t and Alert Service for			
	13.09.2010 – Organize	r - Workshop on G	roundwater resources vulnerability ass and Geophysics, Romania	sessment and mapping,			
	23.12.2011 – Organiz Engineering, Bucharest,		Cartographic Web Services, Techn	ical University of Civil			
Conferences/Projects							
Negotiations/Workshops/							
N (C) (C) (N) (((((((((((((((((University of Huddersfi	eld) international u	niversities network (<u>www.unigis.org</u>)				
	collaboration with Man Metropolitan University	chester Metropolita , University of Salz	n University in the frame of UNIGIS (M burg, Free University of Amsterdam, U	anchester			
			oordinated a two years Postgraduat ng Diploma and Master of Sciences, de				
	Laboratory of Engineering Geology, Hydrogeology and Geophysical Prospecting - (LGIH), University of Liege, Belgium						
	1998 – 2000 - Designing and developing the hydrogeological spatial database (HYGES) of						
	1999 – 2000 - GIS co-ordination tasks of the general hydrogeological maps prototypes for the Walloon Region (Waremme–Momalle and Modave-Clavier, scale 1: 25,000), Department of Natural Resources and Environment, Ministry of the Walloon Region, Belgium						

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Swiss German	C2 Proficient user C1 Proficient user C2 Proficient user C1 Proficient user B2 Independent us	er								
Catalan	C1 Proficient user B1 Independent user A1 Basic User A1 Basic User A2 Basic User									
Italian	C1 Proficient user B1 Independent user A2 Basic User A2 Basic User A2 Basic User A2 Basic User									
Russian	A1 Basic User A2 Basic User A1 Basic User A1 Basic User A1 Basic User									
	(*) Common European Framework of Reference (CEF) level									
Tasks and skills:	 About 20 years of management and projects coordination experience at a national and international level 									
	- Experience of working within an international environment									
	 Strong knowledge in ARC-GIS, ARC/INFO (ESRI) Geographical Information System (GIS) packages and .NET, Visual Basic, Arc/Objects, UML, and SQL applications; Interface between ARC/INFO and GMS (Groundwater Modelling Software); 									
	- Skilled in programming languages: Visual Basic, Arc/Objects, FORTRAN, C++, SQL									
	- Experienced in processed based simulation modelling (Finite Element Method) applied to groundwater flow and transport of contaminants (numerical methods programming skills)									
	- Experienced in hazard, vulnerability, and risk assessment using Overlay and Index methods (GIS based techniques)									
	- Good knowledge of torrent streams, land-slides, debris flow problems and related phenomena									
Driving licence	В									
References	- Professor Lorenz Hurni - ETH - Department of Cartography, Switzerland									
	- Professor Francois Zwahlen – University of Neuchatel, Switzerland									
	- Professor Vincent Hallet - University of Namur, Department of Geology, Belgium									
	- Professor Jesus Carrera - Technical University of Catalonia, Spain									
	- Professor James R. Petch - Manchester University, United Kingdom									

31.05.2012

dr. ing. Constantin Radu Gogu