

LISTE DES CV RO

1. Chef de projet : Prof. R. GOGU

PERSONAL INFORMATION

Constantin Radu GOGU

📍 Rascoala din 1907 Street, no. 5, District 2,
Bucharest (România)

📞 +40 (0) 21 24212 08 📱 +40 (0) 724 99 91 33

✉️ radu.gogu@utcb.ro



WORK EXPERIENCE

2011 – Present Director of the Groundwater Engineering Research Centre - Bucharest, Romania

- Coordination of Groundwater Engineering Research Centre (www.cciias.utcb.ro);
- Coordination of national and European research projects: Sedimentary media modeling platform for groundwater management in urban areas (www.utcb.simpa.ro), GEodata Openness Initiative for Development and Economic Advancement in Romania (GEOIDEA.RO) Romanian-Swiss Research Programme 2013-2015, Remote sensing, model and in-situ data fusion for snowpack parameters and related hazards in a climate change perspective (SNOWBALL), SEE 2014-2017 and others (see the attached list).

2009 – Present Professor Assoc.- Technical University for Civil Engineering - Bucharest, Romania

- Teaching: Environmental Engineering, Rivers Hydraulics, Ecology, Urban hydrogeology; Spatial data analysis and visualization, GIS, Spatial Data (master);
- Consolidation of a national research team (Romania, Algeria, Spain, Netherland);
- Organizing seminars and workshops to promote international scientific collaboration
- Expertise in evaluating groundwater resources, groundwater in urban areas, groundwater management, vulnerability and risk assessment, soil pollution control.

2006 – 2009 Project Coordinator Team, Senior Researcher - Department of Geotechnical Engineering and Geo-Sciences - Polytechnic University of Catalonia, Barcelona (Spain)

- Development and coordination of research projects;
- Coordination of MSC and PhD students in hydrogeology;
- Coordination of foreign students during training;
- Teaching GIS applied in groundwater management for Master and PhD students;
- Environmental studies for private and public sector.

- 2000 – 2005 Project Coordinator Team, Senior Researcher - Federal Polytechnic University of Zurich (ETH) - Department of Cartography and Geoinformatics, Zurich (Switzerland)
- Coordination of the research project: *Geo-spatial system for natural hazard assessment studies in alpine valleys* in collaboration with ETH and Canton Wallis authorities;
 - Design and develop the GEOWARN spatial database for data management of dormant volcano monitoring system - (ETH - IKA), Swiss Federal Institute of Technology, Switzerland;
 - Delegate of the Federal Polytechnic University of Zurich (ETH Zurich) – Institute of Cartography (IKA) at the European Community, negotiate partnerships for the Information Society Technology (FP6) projects - Completed with the participation of ETH Zurich - IKA in ORCHESTRA project consortium (<http://www.eu-orchestra.org>).
- 1997 – 2000 Research engineer - University of Liege, Laboratory of Engineering Geology, Hydrogeology and Geophysical Prospecting (LGIH), Belgium
- Improving aquifer protection strategy using spatial databases analysis and vulnerability assessment;
 - Uncertainty analysis for aquifer systems vulnerability maps;
 - Actively involved in European COST A 620 program on "Vulnerability and risk mapping for the karsts aquifers protection;
 - Design and development the hydrogeological spatial database (HYGES) implemented in Belgium, Walloon region.
- 1993 – 1997 Lecturer – Program coordinator, Engineer at the Technical University of Civil Engineering Bucharest, Faculty of Hydrotechnics, Bucharest (Romania)
- Teaching: Water Resources Engineering Courses, General Computer knowledge and FORTRAN Programming Course;
- 1990 – 1992 Engineer – Analyst, Ministry of Public Works – Computer centre, Romania
- Computer programming, CAD and GIS tasks
 - Numerical modeling programming.

EDUCATION AND TRAINING

- 2013 – 2013 **Habilitation and PhD Coordinator in Civil Engineering, Technical University of Civil Engineering, Bucharest (Romania)**
Polytechnic University of Timisoara , Timisoara (Romania)
- 1997 – 2000 **PhD. in Applied Sciences**
Laboratory of Engineering Geology, Hydrogeology and Geophysical Prospecting, Belgium
- 1992 – 1994 **Master of Sciences**
Technical University of Civil Engineering-Bucharest, School of Mines Paris-France, Pierre et Marie Curie, University-France, Liege University-Belgium, Genoa University-Italy, International TEMPUS Program
- 1985 – 1990 **Diploma of Engineer in Hydraulic Structures**
Technical University of Civil Engineering, Bucharest (Romania)

PERSONAL SKILLS

Mother tongue(s) Romanian

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
French	C2	C2	C2	C2	C1
German	C2	C1	C1	C1	C1
Spanish	C2	C2	C2	C2	C2
Catalan	C1	B1	A1	A1	A1
Italian	C1	B1	A2	A2	A2
Russian	A1	A1	A2	A1	A1

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Projects participation *OBS. Only large-scale projects are mentioned*

	Project	Occupied function	Institution	Period	Budget euro / Beneficiary
1.	Urban hydrogeology impact aspects on: - New urban (Bucharest) drainage system insertion; - Rehabilitation of the lined up Dambovita River; - Rehabilitation of the Bucharest city sewer network; - Impact of the new subway line.	Project Director	Technical University of Civil Engineering, Bucharest, Romania	2014 - 2016	Confidential / Bucharest city water operator

2.	Hydrogeological model of Galati city (Urban hydrogeology studies: Groundwater – urban infrastructure)	Project Director	Technical University of Civil Engineering, Bucharest, Romania	2014 - 2015	Confidential / Galati City Hall
3.	Remote sensing, model and in-situ data fusion for snowpack parameters and related hazards in a climate change perspective (SNOWBALL),SEE 2014-2017,	Partner team coordinator	Technical University of Civil Engineering, Bucharest, Romania	2014 - 2017	150,000 / SEE Funds
4.	Mobile laboratory for Brownfield sites investigation POSCCE-A2-O2.2.1-2013-1/1925; COD SMIS:49178,	Project Director	Technical University of Civil Engineering, Bucharest, Romania	2014 - 2015	1,000,000 / Romanian National Research Funds
6.	Hydrogeological model of Bucharest city (Urban hydrogeology studies: Groundwater – urban infrastructure)	Project Director	Technical University of Civil Engineering, Bucharest, Romania	2013 - 2015	Confidential / Bucharest city water operator
7.	GEOIDEA – Geodata Openness Initiative for Development and Economic Advancement in Romania (www.geoidea.ro)	Project Director	Technical University of Civil Engineering, Bucharest, Romania	01.2013 - present	354,000 / Swiss National Research Funds
8.	SYRIS - Integrated service for urban subsidence phenomena based on space-borne interferometric synthetic aperture radar (InSAR) and hydrogeological-geotechnical hybrid modeling (www.cciias.ro/sirys/)	Project Coordinator	Technical University of Civil Engineering, Bucharest, Romania	07.2013 - present	140,000 / European Space Agency
9.	SIMPA - Sedimentary Media Modeling Platform For Groundwater Management In Urban Areas (www.cciias.utcb.ro)	Project Director	Technical University of Civil Engineering, Bucharest, Romania	07.2010 – 01.2014	907,900 / Romanian National Research Funds
10.	ECAVAS - Prototype aquifer vulnerability maps for Romania	Project Director	Romanian Spatial Agency, Romania	10.2007 - 2010	301.300 / National Romanian Research Funds
11.	GEO – 3D – 3D geological model of the sedimentary media in the Barcelona region to predict the behavior of the tunneling machine excavating the Subway L9 line. (Barcelona City - Airport)	Team leader, GIS solution development, 3D model designer	Technical University of Catalonia (Spain)	10.2007 - 11.2009	Confidential / FCC and Spanish National Research Funds
12.	HEROES - 3D hydrogeological modeling tools in sedimentary media	Project Director	Technical University of Catalonia (Spain)	05.2007 – 11.2009	100,000 / Spanish National Research Funds
13.	TITOS - Techniques, technology and ontology for	Spatial data developer,	Geohidroconsult, Romania	08.2006 - 11.2008	National Romanian

	geospatial data and services portals	Geohydroconsult team coordinator			Research Funds
14.	SITAR - Integrated Information System for elaborating the Romanian Groundwater Atlas	Team leader GIS solution implementation, Spatial database designer	Geohydroconsult, Romania	08.2006 – 11.2008	National Romanian Research Funds
15.	AQUAPROTECT - Sustaining Romanian research applied to groundwater vulnerability and protection at the European level	Team leader, Project initiator	Geohydroconsult, Romania	08.2006 – 11.2007	National Romanian Research Funds
16.	Developing and application of a groundwater modeling platform	Project coordinator, project developer	Technical University of Catalonia (Spain)	02.2006 - 2009	Spanish National Research Funds
17.	GEOMODELS regroups several universities and public research organizations having the purpose of applying and developing new geosciences technologies (University of Barcelona, Technical University of Catalonia, IGME)- Spain	Researcher, Spatial database designer, GIS analyst	Technical University of Catalonia (Spain)	02.2006 - 2009	Spanish National Research Funds
18.	GABARDINE - <i>Groundwater Artificial recharge Based on Alternative sources of water: aDvanced INtegrated technologies and managEment</i> - Funded by EU - FP6 (www.gabardine-fp6.org/home.aspx)	Romanian team coordinator in charge with the GIS based Decision Support System (DSS)	Geohydroconsult, Romania	01. 2006 - 2008	FP 6
19.	INSPAM Spatial Data Infrastructures with Applications in Environment Protection	GIS analyst	Romanian Spatial Agency, Romania	11.2005 - 2007	
20.	HazNETH (Switzerland) - <i>Geo-spatial system for natural hazard assessment studies in Switzerland</i> (www.hazneth.ethz.ch) - Funded by Swiss National Funds and ETH Zürich	Project coordinator, project developer	Swiss Federal Institute of Technology, Zurich (Switzerland)	06. 2003 – 12.2005	Swiss National Funds and ETH Zürich
21.	ORCHESTRA (EU - Switzerland) - <i>Open Architecture and Spatial Data Infrastructure for Risk Management</i> (http://www.eu-orchestra.org) - Funded by EU - FP6 (IST)	GIS analyst, Researcher	Swiss Federal Institute of Technology, Zurich (Switzerland)	05. 2003 – 12.2004	FP 6
22.	GEOWARN (EU - Switzerland) - <i>Geo-spatial warning systems, Nisyros volcano</i> (www.geowarn.com) - Funded by EU – FP5 (IST)	GIS analyst - Spatial database designer	Swiss Federal Institute of Technology, Zurich (Switzerland)	08.2000 – 06.2003	FP 5

23.	Designing and producing the prototypes of the general hydrogeological maps for the Walloon region (Waremme–Momalle and Modave-Clavier, scale 1:25,000).	GIS analyst - GIS team coordinator and trainer	University of Liege, Belgium	02.1999 – 08.2000	Walloon Region Administration (Belgium)
24.	Hydrogeological data base design of the Department of Natural Resources and Environment - Ministry of the Walloon Region	Spatial database designer, GIS analyst	University of Liege, Belgium	10.1998 – 08.2000	Walloon Region Administration (Belgium)
25.	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	GIS analyst, - GIS team coordinator and trainer	University of Liege, Belgium	05.1998 – 05.1999	Belgian Office for Scientific, Technical and Cultural Affairs
26.	COST-A620- <i>Vulnerability and risk mapping for the protection of carbonate (karst) aquifers</i> (EU – Belgium) -Funded by EU	GIS analyst, member, invited expert	University of Liege, Belgium	02.1998 – 11.2003	EU - COST
27.	UNIGIS (International Universities Network) – <i>GIS Postgraduate Diploma and Master of Sciences</i>	Initiator and Project manager in Romania (UTCB), GIS analyst	Technical University of Civil Engineering, Bucharest, Romania	10.1993 – 11.1998	SOROS Foundation

Achievements

- Over 40 research studies and scientific publications (over 40) including 1 book and chapters in books, 2 courses in UTCB 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 Hydrology, Journal of Environmental Management, Advances in Water Resources (Elsevier), Hydrogeology Journal (Springer), Ground Water (Blackwell), Water and other.
- 2014 – present: Member of the Management Committee of the COST Action-TU1206 Sub-Urban - A European network to improve understanding and use of the ground beneath our cities
- 2010 – 2014 The development of the urban hydrogeological model of Bucharest city (Groundwater – urban infrastructure)
- From 2011 to present –founded, organized and coordinated Groundwater Engineering Research Center (CCIA) from Technical University of Civil Engineering Bucharest (www.ccias.utcb.ro)
- From 2011 to present - Coordinator of Postdoctoral Research in Applied Hydraulics , Technical University of Civil Engineering, Bucharest (Romania)
- 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 – Developed an experimental hydrogeological site (5 wells up to 25 m deep, equipped with pumps and monitoring equipment) in order to: (1) developing experimental research (2) teach "in-situ" hydrogeology (tracing tests) and geophysical measurements.
- 2011 – Organizer of graduate courses for the protection of the groundwater resources at the Technical University of Civil Engineering Bucharest
- 2010 – Introduced a new curriculum of Urban hydrogeology, Environmental engineering spatial data models, Geospatial analysis fundamentals for the Master of Science level in Sustainable development at the Technical University of Civil Engineering Bucharest.
- 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 – Design and development the hydrogeological spatial database for the Barcelona region (Barcelona, Delta de Llobregat, Belta del Besos) - spatial query and analysis tools for geochemical data and geological analysis to improve the groundwater flow models, Polytechnic University of Catalonia, Barcelona Spain
- 2003 – 2005 - Creating, organizing, developing and coordinating the project "Geo-spatial system for natural hazard assessment studies in Switzerland" (www.hazneth.ethz.ch) - (ETH - IKA), Federal Polytechnic University of Zurich, Switzerland
- 2000 – 2003 – Creation and development of the spatial database GEOWARN for data management from volcanoes monitoring system - (ETH - IKA), Federal Polytechnic University of Zurich, Switzerland
- 1999 – 2000 - GIS activities coordination for the prototypes of the general hydrogeological maps for the Walloon region (Waremmme – Momalle and Modave-Clavier, scale 1:25,000), Department of Natural Resources and Environment - Ministry of the Walloon Region, Belgium
- 1998 – 2000 - Creation and development of the hydrogeological spatial database (HYGES) of Walloon region, Belgium. University of Liege, Belgium
- 1994 – 1998 – Initiate, develop and support the Postgraduate School of Geographical Information Systems (for 2 years) at the Technical University of Civil Engineering Bucharest, within the international academic network UNIGIS (www.unigis.org)

Grants / Scholarship

- 2004 - 2009 Research Grant of Excellency awarded by Ministry of Research (Spain)-frame of "Ramon y Cajal" Program
 - 1999 - Grant awarded by Walloon Region (Belgium) for the project entitled "Aquifer vulnerability study based on GIS"
 - 1998 - 1999 Research Fellowship awarded by Belgian Office for Scientific, Technical and Cultural Affairs for the research project entitled "Application of Geographical Information System to optimize the preparation of spatial data for groundwater modeling applied to Global Change scenarios"
- 1997 - 1998 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"

Computer skills

- Skilled in programming languages: Visual Basic, Arc/Objects, FORTRAN, C++,
- Strong knowledge in ARC-GIS, ARC/INFO (ESRI) Geographical Information System (GIS) packages and .NET, Visual Basic, Arc/Objects, UML, and SQL application Interface between ARC/INFO and GMS (Groundwater Modelling Software), ANSYS, AQUA (finite element modeling software)

Bucharest, 15.02.2015

Constantin Radu GOGU