

PERSONAL INFORMATION

Constantin Radu GOGU

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WORK EXPERIENCE

- 2011 – Present **Director of the Groundwater Engineering Research Centre - Bucharest, Romania**
- Coordination of Groundwater Engineering Research Centre (www.ccias.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,

1985 – 1990 International TEMPUS Program
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

Research projects

- 2014 – present: Project Director - Remote sensing, model and in-situ data fusion for snowpack parameters and related hazards in a climate change perspective (SNOWBALL),SEE 2014-2017, Technical University of Civil Engineering, Bucharest (Romania).
- 2014 – present: Project Director - Mobile laboratory for Brownfield sites investigation POSCCE-A2-O2.2.1-2013-1/ 1925; COD SMIS:49178, Technical University of Civil Engineering, Bucharest (Romania).
- 2014 – present: Project Director ‘Current trends and approaches in urban hydrogeology’ financed by Fund for Bilateral Relations of Programme RO01 - Technical Assistance and Fund for Bilateral Relations at National Level, Technical University of Civil Engineering, Bucharest (Romania)
- 2014 – present: Responsible of COST-TU1206 Sub-Urban - A European network to improve understanding and use of the ground beneath our cities (Romania), Technical University of Civil Engineering, Bucharest (Romania).
- 2013 – present: Project Director - GEodata Openness Initiative for Development and Economic Advancement in Romania (GEOIDEA.RO). Romanian-Swiss Research Programme 2013-2015, Technical University of Civil Engineering, Bucharest (Romania)
- 2010 -2013: Project Director - Sedimentary Media Modeling Platform for Groundwater Management in Urban Areas - SIMPA”, project POS CCE, Cod SMIS – CNRS 12604. 2010 – 2013, Technical University of Civil Engineering, Bucharest (Romania)
- 01.2011 – 2013: Member in - Tailored Improvement of Brownfield Regeneration in Europe- TIMBRE; (www.timbre-project.eu), Technical University of Civil Engineering, Bucharest (Romania).
- 2007 – 2010: Project director – ECAVAS - Prototype aquifer vulnerability maps for

Romania, Romanian Spatial Agency, Romania, Bucharest, Romania.

- 05.2007 – 11.2009: Project director – HEROES - 3D hydrogeological modeling tools in sedimentary media, Technical University of Catalonia, Spain (Financed by de The Superior Council of Scientific Research.)
- 10.2007 – 11.2009: Team leader, GIS solution development, 3D model designer, 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).
- 02.2006 – 2009: Researcher, Spatial database designer, GIS analyst – 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.
- 08.2006 – 11.2008: Spatial data developer, Geohydroconsult team coordinator Geohydroconsult: TITOS - Techniques, technology and ontology for geospatial data and services portals.
- 08.2006 – 11.2008: Team leader GIS solution implementation, Spatial database designer - SITAR - Integrated Information System for elaborating the Romanian Groundwater Atlas – SITAR.
- 08.2006 – 11.2007: Team leader, Project initiator – Groundwater vulnerability and protection -Romanian research support at the European level, AQUAPROTECT (www.aquaprotect.ro).
- 01.2006 – 2008: Romanian team coordinator in charge with the GIS based Decision Support System (DSS) GABARDINE - Groundwater Artificial recharge Based on Alternative sources of water: aDvanced INtegrated technologies and managEment - Funded by EU - FP6 (www.gabardine-fp6.org/home.aspx).
- 11.2005 – 2007: GIS Analyst - Spatial Data Infrastructures with Applications in Environment Protection – INSPAM, Romanian Spatial Agency, Romania
- 06.2003 – 12.2004 Project coordinator, project developer HazNETH (Switzerland) - Geo-spatial system for natural hazard assessment studies in Switzerland (www.hazneth.ethz.ch) - Funded by Swiss National Funds and ETH Zürich.
- 05.2003 – 12.2004: GIS Analyst, Researcher - Open Architecture and Spatial Data Infrastructure for Risk Management, Funded by EU - FP6 (IST) (<http://www.eu-orchestra.org>), Swiss Federal Institute of Technology, Zurich (Switzerland).
- 02.1998 – 08.2000: GIS Analyst – GIS team coordinator and trainer - Designing and producing the prototypes of the general hydrogeological maps for the Walloon region (Waremme–Momalle and Modave-Clavier, scale 1:25,000).
- 10.1998 – 08.2000: Spatial database designer, GIS analyst - Hydrogeological data base design of the Department of Natural Resources and Environment - Ministry of the Walloon Region, University of Liege, Belgium.

Achievements

- Over 40 research studies and scientific publications (over 45) including books and chapters in books and scientific articles in the following reviews: Computers and Geosciences (Elsevier), Remote Sensing of Environment (Elsevier), Environmental Geology, Hydrogeology Journal (Springer), Cartographica (University of Victoria, Canada).
- Scientific reviewer for Hydrogeology Journal (Springer), Journal of Environmental Management, Journal of Hydrogeology, Water Resources Management, Advances in Water Resources (Elsevier) and Groundwater (Blackwell).
- 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

- From 2011 to present –founded, organized and coordinated Groundwater Engineering Research Center (CCIA) from Technical University of Civil Engineering Bucharest (www.cciias.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 (tracer 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 (Waremme – 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 "Aquifers 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 in 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 applications; Interface between ARC/INFO and GMS (Groundwater Modelling Software), ANSYS, AQUA (finite element modeling software)

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