



Ionuț Șandric

Date of birth: 28/11/1977 | **Nationality:** Romanian | **Phone:** (+40) 724472628 (Mobile) | **Email:**

sandricionut@yahoo.com | **Email:** ionut.sandric@geo.unibuc.ro | **Website:**

<https://www.linkedin.com/in/ionut-sandric> | **Website:** <https://unibuc.ro/user/ionut.sandric> | **Skype:** sandricionut |

Address: Bulevardul Nicolae Balcescu, nr 1, 010041, Bucuresti, Romania (Home)

● WORK EXPERIENCE

01/10/2022 – CURRENT Bucharest, Romania

ASSOCIATE PROFESSOR UNIVERSITY OF BUCHAREST, FACULTY OF GEOGRAPHY

- Courses taught: Using GIS analysis methods in integrated environmental assessment, Geostatistics, Statistics applied in environmental assessment, Remote sensing in environmental impact assessment, Introduction to geo-spatial programming, Advanced geo-spatial programming, Spatial analysis for environmental planning
- Research: Dynamic modeling, propagation of uncertainties in spatial and temporal modeling, landslides, analysis of satellite images with applications in the study of the environment, temporal geographical information systems

01/10/2009 – 30/09/2022 Bucuresti, Romania

ASSISTANT PROFESSOR UNIVERSITY OF BUCHAREST, FACULTY OF GEOGRAPHY

- Courses taught: Using GIS analysis methods in integrated environmental assessment, Geostatistics, Statistics applied in environmental assessment, Remote sensing in environmental impact assessment, Introduction to geo-spatial programming, Advanced geo-spatial programming, Spatial analysis for environmental planning
- Research: Dynamic modeling, propagation of uncertainties in spatial and temporal modeling, landslides, analysis of satellite images with applications in the study of the environment, temporal geographical information systems

Website <http://geo.unibuc.ro>

01/12/2007 – CURRENT Bucuresti, Romania

CONSULTANT GIS-IT ESRI ROMANIA

- Analysis, design and implementation of GIS systems;
- GIS and WebGIS application development,
- GIS database administration,
- Development of geoprocessing scripts,
- Satellite image processing and analysis
- Technical Support for Esri and Exelis Products (ENVI)

Address Strada Washington nr 25, sector 1, Bucuresti, Romania | **Website** <http://www.esri.ro>

01/02/2014 – 31/03/2015 Braila

REMOTE SENSING AND GIS SPECIALIST PREFECTURA BRAILA

- Mapping forest fuel types using RapidEye satellite imagery
- Spatial modeling of fire risk

01/10/2011 – 30/11/2011 Bucuresti, Romania

GIS SPECIALIST ASRC – ADVANCED STUDIES AND RESEARCH CENTER

- Development of tools and symbology for geomorphological cartography

Business or Sector Professional, scientific and technical activities | **Website** <http://www.asrc.ro>

01/10/2003 – 30/09/2009 Bucuresti, Romania

LECTURER UNIVERSITATEA DIN BUCURESTI, FACULTATEA DE GEOGRAFIE

- Courses taught: GIS applications in Geomorphology, Remote Sensing

Address Blvd Nicolae Balcescu, nr 1, sector 1, 010041, Bucuresti, Romania | **Website** <http://geo.unibuc.ro>

01/12/2005 – 30/11/2007 Bucuresti

GIS SPECIALIST TAGIRI CONSULTING

- Development of WebGIS applications for epidemiology
- Epidemiological risk analysis - modeling of spatial and temporal distribution for Bluetongue disease

01/05/2002 – 31/10/2002 Roma, Italy

REMOTE SENSING AND GIS SPECIALIST STUDIO PAN RICERCHE

- Landsat and Ikonos satellite imagery
- Creating and maintaining GIS databases

01/04/2004 – 30/11/2007 Bucuresti, Romania

GIS SPECIALIST CIMEC - INSTITUTUL DE MEMORIE CULTURALA

- Development of WebGIS applications for the National Cultural Heritage <http://map.cimec.ro>
- Creating and maintaining GIS databases

01/11/2001 – 31/12/2001 Bucuresti, Romania

GIS AND REMOTE SENSING SPECIALIST CRUTA - ROMANIAN CENTER FOR APPLIED REMOTE SENSING IN AGRICULTURE

- SPOT and Landsat satellite image processing

● **EDUCATION AND TRAINING**

01/10/2003 – 31/12/2008 Bucuresti

PHD IN GEOGRAPHY Universitatea din Bucursti, Facultatea de Geografie

- Titlu: Sistem informational geografic temporal pentru evaluarea hazardelor naturale. O abordare Bayesiană cu propagare a erorilor

2016 – 2016 Romania

INTRODUCTION IN C++ Info Academy

- Programare in C++

04/03/2019 – CURRENT

PROFESSIONAL CERTIFICATION ESRI ESRI - Environmental Systems Research Institute

- Enterprise Administration Professional 19-001
- <http://www.esri.com/CertificationVerification> cod: HF042HT1C111QKCQ

2017 – 2017 United States

PROFESSIONAL CERTIFICATION ESRI ESRI - Environmental Systems Research Institute

- Enterprise System Design Associate 10.5
- <http://www.esri.com/CertificationVerification> cod: G5LPNX41K2E11FCS

National classification Enterprise System Design Associate 10.5

2017 – 2017

PROFESSIONAL CERTIFICATION ESRI ESRI - Environmental Systems Research Institute

- Enterprise Administration Associate 10.5
- <http://www.esri.com/CertificationVerification> - cod: JNZPNGW11NF11H9Q

National classification Enterprise Administration Associate 10.5

2017 – 2017

PROFESSIONAL CERTIFICATION ESRI ESRI - Environmental Systems Research Institute

- Web Application Developer Associate 10.4
- <http://www.esri.com/CertificationVerification> cod: 9F8FGVT2KBVEC246

National classification Web Application Developer Associate 10.4

2015 – 2015

PROFESSIONAL CERTIFICATION ESRI ESRI - Environmental Systems Research Institute

- Enterprise System Design Associate 10.3
- <http://www.esri.com/CertificationVerification> cod: YDS1DSG2CNFQ14SW

National classification Enterprise System Design Associate 10.3

2014 – 2014

PROFESSIONAL CERTIFICATION ESRI ESRI - Environmental Systems Research Institute

- Enterprise Administration Associate 10.2
- <http://www.esri.com/CertificationVerification> - cod: H16T1X41KMBE5H7D

National classification Enterprise Administration Associate 10.2

2014 – 2014

PROFESSIONAL CERTIFICATION ESRI ESRI - Environmental Systems Research Institute

- Web Application Developer Associate 10.2
- <http://www.esri.com/CertificationVerification> cod: G9GT1CECCFV45GEQ

National classification Web Application Developer Associate 10.2

2013 – 2013

PROFESSIONAL CERTIFICATION ESRI ESRI - Environmental Systems Research Institute

- Enterprise Administration Associate 10.1
- <http://www.esri.com/CertificationVerification> - cod: 0XWSQ4122B4114SR

National classification Enterprise Administration Associate 10.1

07/11/2012 – 11/11/2012 Warsaw, Poland

ENVI AUTHORIZED INSTRUCTOR Exelis and Esri Poland

- Exploring ENVI and E3De

Field of study Remote Sensing

04/2012 – 04/2012 Bucuresti

LINUX SERVER ADMINISTRATION Crystal Mind Academy

- Administrare avansata sisteme de operare Linux

Field of study Informatica

07/2011 – 07/2011 Bucuresti

LINUX BASIC ADMINISTRATION Crystal Mind Academy

- Administrare sisteme de operare Linux

Field of study Informatica

01/09/2008 – 04/09/2008 Barcelon, Spain

PARTICIPATION DIPLOMA Universitat Politècnica de Catalunya · BarcelonaTech

- Curs intensiv: Landslide Quantitative Risk Assessment and Risk Management

Field of study Geoscience

19/08/2010 – 27/08/2010 Tihany, Hungary

PARTICIPATION DIPLOMA EUFAR – European Facility for Airborne Research

- Proceare si analiza de imagini hiperspectrale si LIDAR

Field of study Geostiinte

11/09/2006 – 15/09/2006 Klagenfurt, Austria

PARTICIPATION DIPLOMA Klagenfurt University, Department of Mathematics

- Geostatistica avansata

Field of study Geostatistica

01/04/2006 – 30/06/2006 Utrecht

ACADEMIC VISITOR Universitatea Utrecht, Facultatea de Geografie

- Cercetare in modelare dinamica cu propagare de erori

Field of study Geostiinte

01/10/2004 – 28/02/2006 Bucuresti, Romania

MSC DATABASES - BUSINESS SUPPORT Academia de Stiinte Economice, Facultatea de Cibernetica, Statistica si Informatica Economica

- Proiectare si administrare baze de date
- Statistica avansata si analiza multidimensionala
- Dezvoltare de aplicatii web

Field of study Informatică

01/04/2002 – 30/06/2002 Roma, Italy

BURSA ERASMUS-SOCRATES Universitea Roma Tre, Departamentul de Geologie

- GIS, Teledectie si Geologie Urbana

Field of study Geostiinte

01/10/2001 – 30/06/2003 Bucuresti, Romania

MSC DYNAMIC GEOMORPHOLOGY AND ENVIRONMENTAL PROTECTION Universitatea din Bucuresti, Facultatea de Geografie

- Geomorfologie dinamica

Field of study Geostiinte

01/10/1997 – 30/06/2001 Bucuresti, Romania

BSC - GEOGRAPHY Universitatea din Bucuresti, Facultatea de Geografie

- Geografie, GIS, Geomorfologie

Field of study Geostiinte

● LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C2	C2	C1	C1	B2
FRENCH	B1	B1	B1	A2	A2
ITALIAN	C2	C2	C1	C1	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

● NETWORKS & MEMBERSHIPS

Afilieri

- European Geoscience Union
- EARSeL - European Association of Remote Sensing Laboratories

● DRIVING LICENCE

Driving Licence: B1

● PROJECTS

2023 – 2026

EO-PERSIST- A Cloud-Based Remote Sensing Data System For Promoting Research And Socioeconomic Studies In Arctic Environments

- HORIZON-MSCA-2023-SE-01-01, <https://www.eo-persist.eu>,
- Partner project coordinator for the partner Universitatea din Bucuresti
- AI tools development
- Long satellite time series analysis and space-time pattern modelling

01/11/2020 – 30/10/2022

Slide-Map - An Intelligent Platform For Landslide Risk Mapping In Near-Real Time

- Mapping the elements of a landslide using artificial intelligence algorithms and images taken with unmanned aircraft

Link <https://slidemap.gmrsg.ro>

2020 – 2022

PATGIS - Managementul patogenului Uncinula necator utilizând sisteme informatice geografice

- Project coordination from Esri Romaniats side
- Space-time modelling
- UAV flights planning and image processing
- Developing AI tools

2017 – 2019

Implementation of GIS system within the IRI Forest company

- GIS system analysis and implementation
- development of geoprocessing tools
- GIS system administration

2017 – 2018

Local Register of Green Spaces in Constanța

- GIS system design and implementation using ArcGIS Enterprise and MS SqlServer
- GIS system administration
- WebGIS application development using HTML5 and ArcGIS API for Javascript

2017 – 2019

EMERSA - Experimental Methods for Ecosystems Services Assessment of Urban Lakes under Climate Changes

Long satellite time series processing and modelling.

2016

RO-RISK - National Disaster Risk Assessment

- development of WebGIS applications for multi-hazard and multi-risk computing using Python, HTML5 and ArcGIS for Javascript

2014

Joint management of emergency situations in the cross-border area Romania-Republic of Serbia

- dezvoltare de aplicatii WebGIS pentru managementul situatiilor de urgenta folosind HTML5 si ArcGIS for Javascript API

2012 – CURRENT

Implementation of GIS solutions for ApaNova-Veolia Romania

- GIS system analysis and design
- Geodatabase design and administration
- Configure and administer ArcGIS Server Advanced Enterprise
- WebGIS application development with ArcGIS for Javascript API, Python, Java-Android and .NET

2013 – 2015

UCLIMESA - Urban Heat Island Monitoring under Present and Future Climate

Funded by the Romanian Space Agency. Coordinating institution: National Meteorological Administration, project director: Dr Cheval Sorin

- processing satellite series
- development of tools for spatial and temporal analysis
- spatial and temporal statistical analysis

2013 – 2015

ASSIMO - Assessment of Satellite Derived Soil Moisture Products over Romania

Financed by the Romanian Space Agency. Coordinating institution: National Meteorological Administration, project director: Dr Diamandi Andrei

- processing satellite series
- development of tools for the validation of soil moisture products
- spatial and temporal statistical analysis for the validation of soil moisture products

2013 – 2015

MONDISROM Advanced system for monitoring of mosquito-borne diseases in Romania by integration of space and in-situ data

Financed by the Romanian Space Agency. Coordinating institution: National Research-Development Institute for Microbiology and Immunology "Cantacuzino", project director: Dr Nicolescu Gabriela

- webgis application development for spatial and temporal visualization and analysis
- spatial statistical analysis
- processing satellite series

2013 – 2014

Development of the integrated management plan for ROSPA0009 Beștepe-Mahmudia and the Beștepe Hills nature reserve” SMIS code CSNR 43299

Financed within the Environmental Sectoral Operational Program (SOP ENVIRONMENT), Priority Axis 4 “Implementation of Adequate Management Systems for Nature Protection”, Project session 5. Beneficiary: Tulcea Environmental Protection Agency

<http://bio.geoportal-mediu.ro/geoportalbestepe>

- design and implementation of GIS information system
- design and implementation of GIS database
- GIS application development (web and mobile)
- GIS computer system testing implemented

2011

Geoportal for territorial planning - North-West Development Agency

- GIS system analysis and design for Geoportal
- Deployment with Esri Geoportal, ArcGIS Desktop 10.1, ArcGIS Server Advanced Enterprise 10.1, Javascript and NET 4

2005 – 2009

LIFE05NAT / RO / 000155, Ecological Restoration of the Lower Prut Floodplain Natural Park

European Commission, LIFE III, director Marius Matache, budget: 824 710 EURO

- GIS analysis
- Processing and analysis of satellite images
- WebGIS application development

2006 – 2008

Theoretical and experimental research to reduce the seismic risk of buildings in the national cultural heritage

CEEX-PCD, 1487/2006, project director Prof. Dr. Lungu Dan, UTCB

2006 – 2007

GIS database for analysis, mapping and sustainable management of hazard and risk situations in urban space. Applications in Orsova

GIS and Spatial Modelling of natural hazards.

2004 – 2007

European Landscapes: Past, Present, Future, Culture 2000

Coordinator for Romania: Irina Oberlander Tarnoveanu

- Processing and analysis of satellite images
- Processing and analysis of aerial images
- GIS database administration implementation

2004 – 2005

Analysis and mapping in digital environment of hazards and geomorphological risk in the urban areas of mountain cities. Case studies: Sinaia, Busteni, Predeal, Comarnic,

GIS and Spatial Modelling of natural hazards..

2001 – 2002

Vulnerability of landslides to landslides in the sub-Carpathian basin of Prahova

GIS and Spatial Modelling of landslide susceptibility.

● **ORGANISATIONAL SKILLS**

Project management

- project management
- organization of events for educational purposes
- organization of events for scientific purposes

● **SKILLS ACQUIRED IN THE WORKPLACE**

Skills acquired at the workplace

- expert in the Esri ArcGIS platform
- expert in cross-platform application development

- excellent knowledge of GIS platforms
- advanced knowledge of the INSPIRE directive
- advanced knowledge of ISO TC211 standards

The skills were acquired in over 15 years of professional experience

Suzie J