



Personal information

Surname(s) / First name(s) **RADU Gheorghe Raul**

Address

Mobile

E-mail(s) raul.radu@icas.ro

Nationality Romanian

Date of birth

Gender



**Desired employment /
Occupational field** **Forestry Research**

Work experience

Dates **2008 - 2013**

Occupation or position held GIS Specialist

Main activities and responsibilities Data collection, processing and preparing final documentation/ map. Cleaning data, creating/organizing databases, building GIS architecture, producing spatial data visualization and web products.

Name and address of employer Geodis Group, Romania
13 Decembrie, Brasov County, Romania

Type of business or sector Land management, Geographic Information System.

Dates **2013 – 2015**

Occupation or position held GIS Specialist in land/ natural ecosystem monitoring.

Main activities and responsibilities Data collection, processing and preparing final documentation/ map. Cleaning data, creating/organizing databases, building GIS architecture, producing spatial data visualization and web products.

Name and address of employer Freelancing

Type of business or sector Land management, Geographic Information System.

Dates **2015 - 2017**

Occupation or position held R&D Director, Senior GIS Analyst

Main activities and responsibilities Implement remote sensing technologies, such as satellite imagery, lidar, and drone technologies, to improve data collection and analysis in company projects.

Name and address of employer SC GIS SERVICES TD SRL, Brasov County, Romania

Type of business or sector Land management, Geographic Information System.

Dates **2017 – 2019**

Occupation or position held Co-founder

Main activities and responsibilities	Management, Senior GIS Analyst
Name and address of employer	SC SILVOGUST SRL, Brasov, Romania
Type of business or sector	Land management, Geographic Information System.
Dates	2019 - 2023
Occupation or position held	Researcher, Ecology Department
Main activities and responsibilities	<ul style="list-style-type: none"> • Administration of the LULUCF subdomain within the GHG Inventory. Monitoring and estimating/reporting greenhouse gas emissions and annual absorption related to carbon stock changes in forest land. Period 2019-2024. • Optimization of forestry management decisions for a carbon emission and climate-resilient future in Europe. UFCDI Horizon Project, contract no. 35HE/2024, Period 2024-2026. • Horizon OptForEU - Smart decisions for sustainable forest management (2023-2026). • Long-term dynamics of forest ecosystems in protected areas (LTER Retezat, Bucegi-Piatra Craiului, Mureş River Natural Park), funded by MCI. • Monitoring of forest ecosystems in Romania (2019-2022) under European forest surveillance systems (Level I and II). • Programs focused on genetic improvement of Norway spruce forests and monitoring biodiversity in Romania's pan-European vegetation network.
Type of business or sector	Forestry research
Name and address of employer	National Institute for R&D in Forestry "Marin Dracea" - INCDS, Voluntari, Romania
Dates	2023 - present
Occupation or position held	Senior Researcher, Head Ecology Department
Main activities and responsibilities	Project management
Type of business or sector	Forestry research
Name and address of employer	National Institute for R&D in Forestry "Marin Dracea" – INCDS, Voluntari, Romania

Education and training

Dates	01 October 2003 - 01 June 2008
Title of qualification awarded	Bachelor's degree in Forestry Engineering
Principal subjects / occupational skills covered	Particular interest in modules included Forestry management, Ecology, Molecular and population genetics in forestry, Biostatistics, Remote sensing, and GIS.
Name and type of organization providing education and training	Faculty of Silviculture and Forest Engineering University 1 / Str. Sirul Beethoven , 500123 Brasov, Romania
Dates	September 2008-2013
Title of qualification awarded	PhD
Principal subjects / occupational skills covered	Forestry Sciences.
Name and type of	Faculty of Silviculture and Forest Engineering, University

organization providing
education and training

Romania

Dates September 215-2018

Title of qualification awarded University courses

Principal subjects /
occupational skills covered Computer Sciences

Name and type of
organization providing
education and training Faculty of Mathematics and Computer Sciences, University
Romania

Personal skills and competencies

Mother tongue(s) Romanian

Other language(s)

Self-assessment	Understanding		Speaking		Writing	
European level (*)	Listening	Reading	Spoken interaction	Spoken production	Writing interaction	
English	C2 Proficient user	C2 Proficient user	B2 Proficient user	B2 Proficient user	B2 Proficient user	

(*) [Common European Framework of Reference \(CEF\) level](#)

Technical skills and
competencies Experience in project management and research team management

Computer skills and
competencies GIS software: OSGeo – QGIS, GRASS GIS as a desktop app, PostGIS as a
spatial database, Java spatial libraries like GeoTools, and web mapping
services like OpenLayers and Geoserver.
Programming languages: R, Python, and Java, with a focus on geospatial
libraries and databases.

Additional information Publications:

- Curtu, Alexandru Lucian; Sofletea, Nicolae; Raul, RADU; Bacea, Anton; Abrudan, Ioan Vasile; Butiuc-Keul, Anca; Farcas, Sorina; Allozyme variation of coniferous tree species from Maramures Mountains, Romania, *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, 37, 2, 245-251, 2009, ISSN: [0255965X 18424309](#)
- Chesnoiu, Ecaterina Nicoleta; Sofletea, Nicolae; Curtu, Alexandru Lucian; Toader, Alin; Radu, Raul; Enescu, Mihai; , Bud burst and flowering phenology in a mixed oak forest from Eastern Romania, *Annals of Forest Research*, 52, 199-206, 2009,
- Radu, Raul Gheorghe; Curtu, Lucian Alexandru; Spârchez, Gheorghe; Sofletea, Neculae; , Genetic diversity of norway spruce [*Picea abies* (L.) Karst.] in romanian carpathians, *Annals of Forest Research*, 57, 1, 19-29, 2014, DOI: [10.15287/afr.2014.178](#)
- Marcu, Nicu; Budeanu, Marius; Apostol, Ecaterina Nicoleta; Radu, Raul Gheorghe; , Valuation of the economic benefits from using genetically improved forest reproductive materials in afforestation, *Forests*, 11, 4, 382, 2020, MDPI, DOI: [10.3390/F11040382](#)
- Budeanu, Marius; Apostol, Ecaterina Nicoleta; Radu, Raul Gheorghe; Ioniță, Lucia; , Genetic variability and juvenile–adult correlations of Norway spruce (*Picea abies*) provenances, tested in multisite comparative trials, *Annals of Forest Research*, 64, 2, 105-122, 2021, DOI: [10.3390/F11040382](#)
- Besliu, Emanuel; Budeanu, Marius; Apostol, Ecaterina Nicoleta; Radu, Raul Gheorghe; , Microenvironment Impact on Survival Rate, Growth and Stability Traits, in a Half-Sib Test of Pendula and Pyramidalis Varieties of Norway Spruce, *Forests*, 13, 10, 1691, 2022, MDPI, DOI: [10.3390/f13101691](#)
- Ciocirlan, Mihnea Ioan Cezar; Curtu, Alexandru Lucian; Radu, Gheorghe Raul; , Predicting leaf phenology in forest tree species using uavs and satellite images: a case study for European beech (*Fagus sylvatica* L.), *Remote Sensing*, 14, 24, 6198, 2022, MDPI, DOI: [10.3390/rs14246198](#)

- Chivulescu, Serban; Cadar, Nicolae; Hapa, Mihai; Capalb, Florin; Radu, Raul Gheorghe; Badea, Ovidiu; ,The necessity of maintaining the resilience of Peri-urban forests to secure environmental and ecological balance: a case study of Forest stands located on the Romanian sector of the Pannonian plain,Diversity,15,3,380,2023,MDPI, DOI: [10.3390/d15030380](https://doi.org/10.3390/d15030380)
- Chivulescu, Serban; Radu, Raul Gheorghe; Capalb, Florin; Hapa, Mihai; Pitar, Diana; Marmureanu, Luminita; Leca, Stefan; Petrea, Stefan; Badea, Ovidiu; ,Cost Valuation and Climate Mitigation Impacts of Forest Management: A Case Study from Piatra Craiului National Park, Romania,Land,13,1,17,2023,MDPI, DOI: [10.3390/land13010017](https://doi.org/10.3390/land13010017)
- Chivulescu, Serban; Hapa, Mihai-Ionut; Pitar, Diana; Lorent, Adrian; Marmureanu, Luminita; Leca, Stefan; Radu, Raul; Cazacu, Roxana; Dobre, Alexandru Claudiu; Pascu, Ionut Silviu; ,Integrating Monetary and Non-Monetary Valuation for Ecosystem Services in Piatra Craiului National Park, Southern Carpathians: A Comprehensive Approach to Sustainability and Conservation,Frontiers in Forests and Global Change,7,,1280793,2024,Frontiers, DOI: [10.3389/ffgc.2024.1280793](https://doi.org/10.3389/ffgc.2024.1280793)
- Petrea, Stefan; Radu, Gheorghe Raul; Braga, Cosmin Ion; Cucu, Alexandru Bogdan; Serban, Tibor; Zaharia, Alexandru; Pepelea, Dan; Ienasioiu, Gruita; Petritan, Ion Catalin; ,The Role of Wood Density Variation and Biomass Allocation in Accurate Forest Carbon Stock Estimation of European Beech (Fagus sylvatica L.) Mountain Forests,Forests,15,3,404,2024,MDPI, DOI: [10.3390/f15030404](https://doi.org/10.3390/f15030404)
- Braga, Cosmin Ion; Petrea, Stefan; Radu, Gheorghe Raul; Cucu, Alexandru Bogdan; Serban, Tibor; Zaharia, Alexandru; Leca, Stefan; ,Carbon Sequestration Dynamics in Peri-Urban Forests: Comparing Secondary Succession and Mature Stands under Varied Forest Management Practices,Land,13,4,492,2024,MDPI, DOI: [10.3390/land13040492](https://doi.org/10.3390/land13040492)
- Ciocîrlan, Mihnea Ioan Cezar; Ciocîrlan, Elena; Chira, Dănuț; Radu, Gheorghe Raul; Păcurar, Victor Dan; Beșliu, Emanuel; Zormpa, Ourania Grigoriadou; Gailing, Oliver; Curtu, Alexandru Lucian; ,Large Differences in Bud Burst and Senescence between Low-and High-Altitude European Beech Populations along an Altitudinal Transect in the South-Eastern Carpathians,Forests,15,3,468,2024,MDPI, DOI: [10.3390/f15030468](https://doi.org/10.3390/f15030468)

Projects and activities:

- Monitor and Report the GHG for the LULUCF sector under the UNFCCC and the Kyoto Protocol for 2019-2024. Project funding: 1.6 million Euro **project leader**

Date:
2025

Signed:
Raul Gheorghe RADU