

# Curriculum vitae

## INFORMAȚII PERSONALE

Mihai-Daniel Niță

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## LOCUL DE MUNCA

Universitatea Transilvania din Brașov  
Conducător de doctorat – Domeniul Silvicultura din 2019

## DOMENII DE COMPETENȚĂ PROFESIONALĂ / ARII DE INTERES ÎN CERCETARE

Amenajarea bazinelor hidrografice, Teledetecție, GIS,

## EXPERIENȚA PROFESIONALĂ

01/10/2020–Prezent

Profesor universitar  
Universitatea Transilvania din Brașov, Brașov (România)  
Conducerea lucrărilor practice și a proiectului la disciplina Corectarea Torentilor. Sustinere cursului și lucrărilor practice la disciplina Construcții hidrotehnice în amenajare bazinelor hidrografice

11/07/2022–Prezent

Membru asociat  
Academia de Științe Agricole și Silvicultură (ASAS)  
Implicare în relațiile științifice internaționale în domeniul de activitate Silvicultură și participare la programe de cooperare tehnico-științifice naționale și internaționale.

01/10/2016–01/03/2017

Fulbright Visiting Professor  
University of Wisconsin, Madison (USA)  
Cercetare în Teledetecție aplicată în silvicultură

01/07/2014–01/04/2015

Membru în Comisia Tehnico-Economică Departamentul Ape Paduri  
Ministerul Mediului și Schimbărilor Climatice, București (România)  
Aprobare proiecte de Reconstrucție Ecologică, Corectarea Torentilor, Drumuri forestiere

01/10/2012–01/10/2020

Șef de lucrări, Conferențiar universitar  
Universitatea Transilvania din Brașov, Brașov (România)  
Conducerea lucrărilor practice și a proiectului la disciplina Corectarea Torentilor. Sustinere cursului și lucrărilor practice la disciplina Construcții hidrotehnice în amenajare bazinelor hidrografice

01/03/2007–Prezent

Acționar, Inginer Silvic

SC Forest Design SRL, Brașov (România)

- coordonare proiecte, fundraising

- elaborare strategii de cercetare-dezvoltare

## EDUCAȚIE ȘI FORMARE

22/02/2015–22/03/2015

Junior researcher

Department of Forest and Wildlife Ecology - The University of Wisconsin Madison, Madison (Statele Unite ale Americii)

Cercetare aplicată în cartarea habitatelor forestiere și modificarea categoriilor de folosință a pădurii utilizând sistemele informatice geografice (GIS), teledetecția și datele istorice privind inventarul forestier sub coordonarea lui Volker C. Radeloff, șeful laboratorului SILVIS (Analiza spațială pentru conservare și durabilitate)

19/09/2007–21/09/2007

Environmental Governance in Eastern Europe

Jesus College, Oxford (Regatul Unit)

01/10/2008–01/10/2011

Doctor în Silvicultură

Transilvania University of Brașov, Brașov (România)

01/10/2003–01/06/2008

Inginer diplomat în silvicultură

Facultatea de Silvicultură și Exploatare Forestieră, Brașov (România)

## COMPETENȚE PERSONALE

Limba(i) maternă(e) română

### Limbile străine

	ÎNȚELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
engleză	C2	C2	C2	C2	C2
spaniolă	A2	A2	A1	A1	A1
rusă	A1	A1	A1	A1	A2

Niveluri: A1 și A2: Utilizator elementar - B1 și B2: Utilizator independent - C1 și C2: Utilizator experimentat  
[Cadrul european comun de referință pentru limbi străine](#)

## INFORMATII SUPLIMENTARE

### Proiecte

- 2022 – 2024: **Project Manager**. Co-designing Holistic Forest-based Policy Pathways for Climate Change Mitigation - ForestPahts. **Horizon Europe**
- 2022 – 2023: **Responsabilcontract**. „Studiulefectelorasupramediuluiînconjurătordateconstrucțiilororhidrotehnice de corectareatornților situate înbazinehidrograficemici, predominant forestiere”. **RNP Romsilva**
- 2018 – 2020: **Project Manager**: Academic support services for Rectify and Mosaic 700 Corona Satellite images. University of Wisconsin – Madison
- 2015 – 2016: **GIS expert** in “COREHABS - Ecological corridors for species and habitats in Romania” **EEA Grants**
- 2014 – 2016: Project manager in Ecological solutions for managing torrential valleys from ROSCI0207 Postăvaru, ROSCI0195 Piatra Mare și ROSCI0038 Ciucaș protected sites – Funds covered by UEFISCDI
- 2014 - 2015: MSc Degree on Management of Sustainable and Ecological Tourism (MEST) Funds covered by Erasmus Plus
- 2013 - 2016: European Islands Continue education on Resources Efficiency Virtual Gateway (VIREG) Funds covered by ERASMUS Plus
- 2013 : Managing and conserving forests for multiple values Funds covered by UE
- 2012 - 2014: **GIS expert** in "Services for the development of scientific studies, inventories, maps (including GIS mapping) in ROSCI0395 sites" - Funds covered by **Sectorial Operational Programme – Environment**
- **2012 – 2014: Research member in** Fundamentalsand solutionsfordesign andmonitoring the torrent control works frompredominantlyforested watersheds – National Forest Administration
- **2012 – 2014: Forestry expert in** Sustainable networks for the energetic use of lignocellulosic biomass in South East Europe (FOROPA) – Funds covered by The South East Europe Transnational Cooperation Programme
- 2012 - 2014: MSc Modules Programme in Environmental Security and Management-SEMP Funds covered by Erasmus Plus
- 2012 - 2015: Green Technology European Virtual Gateway-VITEG Funds covered by ERASMUS Plus
- 2012: Estimating the available beech, Norway spruce and silver fir wood to be harvested in east Romania Funds covered by Prinzhorn Holding GmbH
- 2012: **GIS expert** in "Developing a GIS database required for management plans for 10 Natura 2000 sites" - Funds covered by **Sectorial Operational Programme - Environment**
- 2012: **Project Manager** in "GIS database of the forest areas managed by the RPL PadurileFagarasului R.A. Forest Management Unit" - Funds covered by **WWF (World Wide Fund for Nature)**
- 2010 - 2011: **GIS expert** in "Creating GIS spatial database for Vrancea, Covasna and Harghita" - Funds covered by **LIFE 08 NAT/RO/500**
- 2010 - 2013: **GIS expert** in "Services for the development of scientific studies, inventories, maps (including GIS mapping) in DefileulJiului National Park" - Funds covered by **Sectorial Operational Programme – Environment**
- 2012 – GIS and Hydrology expert "Improving the Financial Sustainability of the Carpathian System of Protected Areas" – Watershed protectioninAP(soil stabilization, erosion control, waterlevel fluctuation) and Disaster Risk ReductionvalueinAP - UNDP
- **2009 – Project Manager in** Hydrological mapping of the vegetation in order to establish the flood risk zones in predominantly forested watersheds – Fund covered by "8 band challenge"- Digital Globe
- 2008 - 2012: **GIS expert** in "Development of new products derived from satellite data adapted to users in the management of hydro-meteorological risk situations. (RISCASAT)" - Funds covered by **Executive Unit for Financing Higher Education, Research, Development and Innovation**
- **2008 – 2011: Research member** "New researchon the behavior ofthe river network torrent control works in the upper basinofTarlung (ID740)" - CNCSIS

## Publicatii

- Tudose, Nicu Constantin; Ungurean, Cezar; Davidescu, Șerban; Clinciu, Ioan; Marin, Mirabela; Niță, Mihai Daniel; Adorjani, Andrei; Davidescu, Adriana (2020): **Torrential flood risk assessment and environmentally friendly solutions for small catchments located in the Romania Natura 2000 sites Ciucas, Postavaru and Piatra Mare**, Science of The Total Environment, Volume 698, 1. 5 year IF: 5.7
- Popa, Bogdan; Niță, Mihai Daniel; Hălălișan, Aureliu Florin (2019): **Intentions to engage in forest law enforcement in Romania: An application of the theory of planned behavior**, Forest Policy and Economics, 100, 33-43, 2019, Elsevier. 5 year IF: 3.2
- Manakos, Ioannis; Tomaszewska, Monika; Gkinis, Ioannis; Brovkina, Olga; Filchev, Lachezar; Genc, Levent; Gitas, Ioannis; Halabuk, Andrej; Inalpulat, Melis; Irimescu, Anisoara, Niță, Mihai Daniel et. al (2018): **Comparison of Global and Continental Land Cover Products for Selected Study Areas in South Central and Eastern European Region**, Remote Sensing, 10, 12, 1967, Multidisciplinary Digital Publishing Institute. IF: 4.2
- Niță M.D., Munteanu C, Gutman, G., Abrudan I V., Radeloff VC (2018) - **Widespread forest cutting in the aftermath of World War II captured by broad-scale historical Corona spy satellite photography**, REMOTE SENSING OF ENVIRONMENT, Volume 204, p. 322-332. 5 year IF: 7.7
- Stancioiu, P.T.; Niță M.D.; Lazar, Gabriel Ervin (2018) - Forestland connectivity in Romania- Implications for policy and management. LAND USE POLICY. Volume: 76 p. 487-499. 5 year IF: 3,66
- Dinca L, Niță M.D., Hofgaard A, Alados CL, Broll G, Borz SA, Wertz B, Monteiro AT (2017) - Forests dynamics in the montane-alpine boundary: a comparative study in protected European mountains using satellite imagery and climate data. Climate Research. DOI information: 10.3354/cr01452. 5 year IF: 2.93
- **Popa, B., Borz, S. A., Niță M.D., Ioras, F., Iordache, E., Borlea, F., ... Abrudan, I. V. (2016). Forest Ecosystem Services Valuation in Different Management Scenarios : a Case Study of the Maramures Mountains. Baltic Forestry, 22(2), 327–340. 5 year IF: 0.563**
- **Niță M.D., Clinciu I., Popa B. (2016) - Evaluation of stream bed dynamics from Vidas torrential valley using terrestrial measurements and GIS techniques. ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL. Vol.15, No. 6, 1387-1395. 5 year IF: 0.795**
- **Munteanu C, Niță M.D., Abrudan I V., Radeloff VC (2016) - Historical forest management in Romania is imposing strong legacies on contemporary forests and their management. Forest Ecology and Management, pp. 179-193. DOI information: 10.1016/j.foreco.2015.11.023. 5year IF: 3.23**
- Popa B., Coman C., Borz S., **Niță M.D.** et al. (2013) - Total Economic Value of Natural Capital – A Case Study of Piatra Craiului National Park. NotulaeBotanicae, Vol. 41, No.2. **5 year IF: 0.72**
- **Iordache, E., Niță M.D., Clinciu, I. (2012). Planning forest accessibility with a low ecological impact | Planiranje otvaranja šuma na osnovi ekološke pogodnosti. Croatian Journal of Forest Engineering, 33(1), 143–148. 5 year IF: 0.909**
- **Niță M.D., Clinciu I., Tudose, N.C. (2011): "Estimating and mapping torrentiality risk in small forested watersheds". Bulletin of the Transilvania University of Brasov, vol. 4 (53)- 2011 - series II Forestry - Wood Industry - Agricultural Food Engineering**
- **Niță M.D., Clinciu, I. (2010): "Research on soil moisture spatial distribution in small forested watersheds". Proceedings of the Symposium "Forest and Sustainable Development". ISSN 1843-505X**
- **Niță M.D., Clinciu I., (2010): "Hydrological mapping of the vegetation using remote sensing products". Bulletin of the Transilvania University of Brasov, vol. 3 (52)- 2010 - series II Forestry - Wood Industry - Agricultural Food Engineering, ISSN 2065-2135 (print), ISSN 2065-2143 (CD-ROM).**
- **Candrea-Bozga Ș.B., Niță M.D. (2009): "Mapping windthrows using remote sensing products". Proceedings of the Symposium "Forest and Sustainable Development". Editura Universitatii "Transilvania". ISSN 1843-505X**

Informații suplimentare: <https://scholar.google.ro/citations?user=hBkhiNMAAAAJ&hl=ro>

#### Cărți și capitole

- 2019 - Corectarea Torentilor. Editura Universitatii Transilvania
- 2015 - "Forest management and the impact on water resources: a review of 12 nations". UNESCO. ISBN 978-92-3-100216-8
- 2014 - Behaviour and effects of the torrential hydrographical management structures in a mountain watershed, Publishing House: Editura Universitatii Transilvania
- 2013 - Watershed management located in the mountain protected areas, Publishing House: Lux Libris, ISBN 978-973-131-236-1
- 2011 - Research on the designing the river system dams in the upper basin of Tarlung (upstream Săcele Lake), Publishing House: Editura Universitatii Transilvania ISBN: 978-973-598-989-7

#### Asociații

- South Central European Regional International Network (SCERIN) - SCERIN is one of the regional networks of the GOFC-GOLD panel. GOFC-GOLD (Global Observation of Forest and Land Cover Dynamics) is a panel of GTOS. GTOS (Global Terrestrial Observing System) is a programme for observations, modelling, and analysis of terrestrial ecosystems to support sustainable development. Global Observation for Forest and Land Cover Dynamics (GOFC-GOLD) is a coordinated international program working to provide ongoing space-based and in situ observations of the land surface to support sustainable management of terrestrial resources at different scales.
- **Romanian National Society of Soil Science (member since 2015)** - SNRSS encourage scientific research in all fields of soil science and promoting the practical application of its results
- **geo-spatial.org (member since 2008)** - geo-spatial.org explores the concepts, techniques and tools specific to geospatial community. Promotes usage of free and open source software solutions. The goal is to facilitate the access to geographic data and map in a way to become an universal tool of communication and registration of relations between social components (scientific, political, cultural, religious, economic) and their geospatial dimension.

#### Workshops, seminars and consultations

- Speaker: Fusing EO data for forest and land cover dynamics. From historical satellite images to 3D technologies. SKOLTECH Space Center Seminar, Moscow, Russia, 2019
- Trainer: Advanced classification methods with focus on Random Forest Classifier. Trans-Atlantic Training – Novi Sad 2019. Radar and Optical Remote Sensing in the Agricultural and Environmental Monitoring
- Trainer: Remote Sensing using Google Earth Engine. South Asia Regional Information Network (SARIN), 2018, Vientiane, Laos
- Trainer: Landsat time series in the forestry research Trans-Atlantic Training Integration of Radar and Optical Remote Sensing in Studying Land Cover/Land Use Change Zagreb, Croatia 7-11 June 2018
- Trainer: Remote Sensing using Google Earth Engine. South Asia Regional Information Network (SARIN), 2018, Bangkok, Thailand
- Erasmus Plus Visiting Scholar – "Using Computer Vision in monitoring torrent control dams", 19-23 October 2015 – Madrid
- Trainer in "Applied geomatics in forestry" for Institute of Forest Research Chisinau, May 2015 -Moldova
- Organizer in "Sustainable networks for the energetic use of lignocellulosic biomass in South East Europe" 19 December 2014, Brasov
- Trainer in Seminar "Free and open source solutions for geospatial data processing and
- Trainer in seminar "GIS database application using the following software: Quantum GIS, PostgreSQL. PostGIS and PgAdmin as part of project for integrated management of Natura 2000 site Munții Făgăraș și Piemontul Făgăraș", September 2014
- Trainer in Seminar "Free and open source solutions for geospatial data processing and representation", 2012, 2013, 2014, 2015 – Timișoara, Cluj Napoca
- Trainer in "Using 8 band multispectral satellite images" 1 – 6 September 2011, Lunca Muresului Natural Parc, Arad
- Torrential Watershed Management – Romanian Experience Workshop - May 2009, Escuela Technica Superior de Montes, Madrid
- Environmental Governance in Eastern Europe Workshop 19-21 September 2007, Jesus College, Oxford