



Andrei Dornik

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WORK EXPERIENCE

01/02/2022 – CURRENT Timisoara, Romania

LECTURER WEST UNIVERSITY OF TIMISOARA

Teaching

- Geoinformatics
- Geographic Information Systems
- Programming
- Remote sensing

Research

01/02/2019 – 01/02/2022 Timisoara, Romania

TEACHING ASSISTANT WEST UNIVERSITY OF TIMISOARA

Teaching

- Geoinformatics
- Geographic Information Systems
- Remote sensing

Research

01/01/2015 – 01/02/2019 Timisoara, Romania

ANALYST-CARTOGRAPHER WEST UNIVERSITY OF TIMISOARA

- Digital Mapping and Cartography
- GIS
- managing website

01/08/2013 – 31/12/2014 Timisoara, Romania

GEOMATICIAN SC BLACKLIGHT SRL

- GIS analysis
- trainer GIS
- database administration
- process automation

EDUCATION AND TRAINING

01/10/2012 – 01/10/2015 Timisoara, Romania

PHD IN GEOGRAPHY West University of Timisoara

Level in EQF EQF level 8

01/10/2010 – 01/10/2012 Timisoara, Romania

MASTER DEGREE IN GEOGRAPHICAL INFORMATION SYSTEMS West University of Timisoara

Level in EQF EQF level 7

01/10/2007 – 01/10/2010 Timisoara, Romania

BACHELOR DEGREE IN GEOGRAPHY West University of Timisoara

Level in EQF EQF level 6

15/09/2003 – 15/09/2007 Petroșani, Romania

CERTIFICATE IN INFORMATICS Informatics Highschool

Level in EQF EQF level 5

● LANGUAGE SKILLS

Mother tongue(s): **ROMANIAN**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	B2	B2	B2
FRENCH	A1	A1	A1	A1	A1

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

● DIGITAL SKILLS

GIS

ArcGIS | Terrset | Saga GIS | SoLIM | Google Earth Engine | eCognition

Programming

Python | R

Databases

MySQL

Statistics

SPSS

Graphic design

CorelDraw

● PROJECTS

01/01/2025 – CURRENT

Researcher

- Project: Extinderea infrastructurii naționale participantă la segmentul de sol colaborativ European (COLGS-RO)
- UEFISCDI, PN-IV-P6-6.3-SOL-2024-2-0248
- Software development; Remote sensing; Digital soil mapping

01/09/2020 – 01/09/2022

Project Leader / PI

- Project: A digital framework for assessing land suitability to crops and land use (LS-GIS)
- CNCS – UEFISCDI, PN-III-P1-1.1-PD-2019-0402
- Budget: 250000 lei

Link <https://ls-gis.projects.uvt.ro/>

01/01/2020 – 01/10/2020

Postdoctoral researcher

- Project: Study of the development of extreme events over permafrost areas (SODEEP)
- Ministry of Research and Innovation and CNCS – UEFISCDI within ERANET, nr. ERANET-RUS-PLUS-SODEEP
- Budget: 528460 lei

01/04/2019 – 31/12/2019

Postdoctoral researcher

- Project: Semi-automated object-oriented landslide mapping
- CNCS – UEFISCDI, PN-III-P4-ID-PCE-2016-0222
- Budget: 850000 lei

● **TRAINING COURSES**

18/02/2019 – 18/04/2019

Going Places with Spatial Analysis

- Esri's MOOC Program

31/10/2018 – 31/12/2018

Earth Imagery at work

- Esri's MOOC Program

12/09/2018 – 12/11/2018

Do-It-Yourself Geo Apps

- Esri's MOOC Program

18/04/2018 – 18/06/2018

Cartography

- Esri's MOOC Program

01/08/2018 – 31/08/2018

Soils

- Online course at Lancaster University, UK

06/08/2018 – 29/08/2018

Research writing

- Online course at University of Wollongong, Australia

01/01/2014 – 01/03/2014

AutoCAD Map 3D

- authorized course

● **PUBLICATIONS**

2024

[Geospatial evaluation of the agricultural suitability and land use compatibility in Europe's temperate continental climate region](#)

Dornik A., Chețan M-A., Crișan T.E., Heciko R., Gora A., Drăguț L., Panagos P., 2024, Geospatial evaluation of the agricultural suitability and land use compatibility in Europe's temperate continental climate region, International Soil and Water Conservation Research (IF 7.3; AIS 1.371; Q1)

2022

[Importance of the mapping unit on the land suitability assessment for agriculture](#)

Dornik A., Chețan M-A., Drăguț L., Iliuță A., Dicu D.D., 2022, Importance of the mapping unit on the land suitability assessment for agriculture, Computers and Electronics in Agriculture (IF 8.3; AIS 1.049; Q1; Rank 1/58 in AGRICULTURE, MULTIDISCIPLINARY), 201: 107305

2022

Optimal scaling of predictors for digital mapping of soil properties

Dornik A., Chețan M-A., Drăguț L., Dicu D.D., Iliuță A., 2022, Optimal scaling of predictors for digital mapping of soil properties, *Geoderma* (IF 6.1; AIS 1.221; Q1), 405:115453

2022

Influence of sampling design on landslide susceptibility modeling in lithologically heterogeneous areas

Dornik A., Drăguț L., Oguchi T., Hayakawa Y., Micu M., 2022, Influence of sampling design on landslide susceptibility modeling in lithologically heterogeneous areas, *Scientific Reports* (IF 4.6; AIS 1.129; Q2), 12:2106

2021

Soil-Related Predictors for Distribution Modelling of Four European Crayfish Species

Dornik A., Ion M. C., Chețan M-A., Pârvulescu L., 2021, Soil-Related Predictors for Distribution Modelling of Four European Crayfish Species, *Water* (IF 3.53; AIS 0.523; Q2), 13:16, 2280

2021

20 years of landscape dynamics within the world's largest multinational network of protected areas

Chețan, M-A., Dornik, A., 2021, 20 years of landscape dynamics within the world's largest multinational network of protected areas, *Journal of Environmental Management* (IF 8.910; AIS 1.115; Q1), 280, 111712

2020

35 Years of Vegetation and Lake Dynamics in the Pechora Catchment, Russian European Arctic

Chețan, M-A., Dornik, A., Ardelean, F., Georgievski, G., Hagemann, S., Romanovsky, V.E., Onaca, A., Drozdov, D.S., 2020, 35 Years of Vegetation and Lake Dynamics in the Pechora Catchment, Russian European Arctic, *Remote Sensing* (IF 4.848; AIS 0.933; Q1), 12:11, 1863

2020

Assessment of Spatio-Temporal Landscape Changes from VHR Images in Three Different Permafrost Areas in the Western Russian Arctic

Ardelean, F., Onaca, A., Chețan, M-A., Dornik, A., Georgievski, G., Hagemann, S., Timofte, F., Berzescu, O., 2020, Assessment of Spatio-Temporal Landscape Changes from VHR Images in Three Different Permafrost Areas in the Western Russian Arctic, *Remote Sensing* (IF 4.848; AIS 0.933; Q1), 12:23, 3999

2018

Classification of Soil Types Using Geographic Object-Based Image Analysis and Random Forest

Dornik, A., Drăguț, L., Urdea, P., 2018, Classification of Soil Types Using Geographic Object-Based Image Analysis and Random Forest, *Pedosphere* (IF 3.188; AIS 0.559; Q2), 28:6, 913-925

2018

Analysis of recent changes in natural habitat types in the Apuseni Mountains (Romania), using multi-temporal Landsat satellite imagery (1986–2015)

Chețan, M-A., Dornik, A., Urdea, P., 2018, Analysis of recent changes in natural habitat types in the Apuseni Mountains (Romania), using multi-temporal Landsat satellite imagery (1986–2015), *Applied Geography* (IF 3.068; AIS 0.859; Q1), 97, 161-175

2016

Knowledge-based soil type classification using terrain segmentation

Dornik, A., Drăguț, L., Urdea, P., 2016, Knowledge-based soil type classification using terrain segmentation, *Soil Research* (IF 1.606; AIS 0.455; Q3), 54:7, 809-823, <https://doi.org/10.1071/SR15210>

2016

Land-surface segmentation as a method to create strata for spatial sampling and its potential for digital soil mapping

Drăguț, L., Dornik, A., 2016, Land-surface segmentation as a method to create strata for spatial sampling and its potential for digital soil mapping, *International Journal of Geographical Information Science* (IF 2.5; AIS 0.584; Q1), 30:7, 1359-1376