

## PERSONAL INFORMATION

## Tamás Deák



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Date of birth: 1993. 11. 18. | Nationality magyar

## POSITION

## Research assistant

## WORK EXPERIENCE

2021. 08. – Present

**PhD student / researcher**

University of Miskolc - Department of Physical Geography and Environmental Sciences, Miskolc (Hungary)

2020. 05. – 2020. 09.

**Engineer Intern**

Hungarian National Railworks – Railway Regional Directorate, Miskolc (Hungary)

2017. 04. – 2017. 10.

**Researcher**

Népfőiskola foundation –, Lakitelek (Hungary)

- Questionnairing in the Upper-Bodrogek and Kisvárdai region.
- Documentation of the. Questionnairing

2014. 06. – 2015. 11.

**Intern**

University of Miskolc - Department of Physical Geography and Environmental Sciences, Miskolc (Hungary)

Urban geography, urban structure field practice.

Participation in the digitization of the Miskolc Atlas.

Field experience in soil science and geomorphology. Soil examination and analysis.

## EDUCATION AND TRAINING

2021 – Present

**Ph.D. in Earth Sciences**

University of Miskolc Mikoviny Sámuel Doctoral School of Earth Sciences, Miskolc (Hungary)

Research field: GIS, Soil science, Soil moisture, Geostatistics, Data analysis, Decision support systems, Precision agriculture

2016 – 2018

**M.Sc. in Geography – Geoinformatics  
( Grade : Good)**

University of Miskolc Faculty of Earth Science and Engineering, Miskolc (Hungary)

2013 – 2016 **B.Sc. in Geography – Researcher in Geoinformatics (B.Sc. in Geography)**  
**(Grade: Good)**  
 University of Miskolc Faculty of Earth Science and Engineering, Miskolc (Hungary)

## PERSONAL SKILLS

Mother tongue Hungarian

Foreign language

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2 Proficient user  
 Common European Framework of Reference for Languages

Communication skills Good communication and presentation skills

Digital skills

- **GIS knowledge:** ArcGIS, QGIS, Google Earth Pro, Sattelite image processing, ESA SNAP, Remote sensing
- **Basic, office softwares:** MS Office, GIMP, LibreOffice
- **Programming skills (automation, data visualization and analysis, frameworks):** Python, Jupyter Notebook, GeoPandas, Matplotlib, Seaborn, Streamlit, Scikit-learn, Numpy, Data pipelines, Statsmodels
- **Statistical knowledge, softwares:** SPSS, Geostatistics
- **Operating systems:** Windows, Linux
- **Database:** SQL, PostreSQL, PostGIS, GeoJSON
- **Web based GIS and web development knowledge, frameworks:** HTML, CSS, Javascript, Bootstrap, GeoServer, Wordpress, Django, Leaflet.js, Git

## ADDITIONAL INFORMATION

Further training

2018 - He was part of the 8-week EFOP-3.6.1-16-2016-00011 "Young and Renewable University - Innovative Knowledge City - institutional development of the University of Miskolc for intelligent specialization" training series aimed at resupplying researchers.

2022 – Data Science course

Organized by training: Braining Hub - Education Center (braininghub.hu)  
 Presented by: Csaba Gáspár (Lead Data Scientist, Dmlab)

Thematics:

INTRODUCTION TO THE WORLD OF DATA SCIENCE

MACHINE LEARNING FUNDAMENTALS, PYTHON AND PANDAS INTRO

REGRESSION TASKS, DATA PREPARATION THROUGH HOUSE PRICE FORECASTING TASKS

BASIC GRADING TASK AND OVERVIEW OF EVALUATION METHODS BASED ON CREDIT REVIEW TASK

CLUSTERING METHODS AND OPERATIONAL ISSUES OF MACHINE LEARNING SYSTEMS

ANALYSIS OF TRANSACTION DATA AND INTERPRETABILITY OF MODELS

**Projects** - Development of an ICT platform to support soil information-driven agriculture a management and optimization of agricultural production and effects on the soil system for tracking purposes. Project identification number: 2020-1.1.2-PIACI-KFI-2021-00318

Participants: Matyó Agrártormelő Private Limited, URBÁN and URBÁN Agricultural and Commercial Limited Liability Company, Faculty of Earth Sciences, University of Miskolc, Institute of Geography and Geoinformatics

Job description: Participation in geospatial analysis work, data digitization, field data collection works and arranging the data of the monitoring systems in a uniform form, and it's IT background in development and data interpretation.

Project leader: Prof. Dr. Endre Dobos, head of department, university associate professor.

**Publications**

- MTMT ID: <https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=authors10082812>