

## SCIENTIFIC BIOGRAPHY

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**Position:** research assistant

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**Name of centre:** Institute of Environmental Sciences, Research Center for Irrigation and Water Management, Szarvas

### Education, qualifications:

2020 - PhD student, University of Szeged, Department of Geoinformatics, Physical and Environmental Geography

2019 - 2021 Irrigation Specialist, Szent István University, Faculty of Agriculture and Economics

2003 - 2009 Diploma in Geography, Faculty of Science and Informatics, University of Szeged, specialization in Environmental Research and Geoinformatics

### Research activity, Specializations:

Excess water management and excess water hazard mapping research.

Participation in the methodological development of the Research Centre's research, correlation studies of inland excess water vulnerability factor maps (e.g.: delineation of low-lying areas, upstream areas, channel network and density, drained areas, etc.), exploration of modelling possibilities.

- study and mapping of the factors influencing the formation and disappearance of inland excess waters;
- modelling of the durability of excess water periods as a function of dynamic factors;
- project database management, data structure setup, GIS analysis, map presentation;
- detection of inland excess water from multispectral (Sentinel-2) and radar (Sentinel-1 satellite imagery using classification algorithms (indexes, machine learning, deep neural network).

### Awards and recognition:

#### Information on doctoral studies:

[https://doktori.hu/index.php?menuid=192&lang=HU&sz\\_ID=38434](https://doktori.hu/index.php?menuid=192&lang=HU&sz_ID=38434)

**Publication details:** <https://m2.mtmt.hu/gui2/?type=authors&mode=browse&sel=10071869>

#### Courses:

#### Optional thesis topics: