Dr. Alexandru HEGYI

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LINKURI   Research Gate

ISTORIC PROFESIONAL

Apr 2021 — Mar 2023	Digital Heritage Manager / Cercetător , CSEAS, Kyoto University, Japonia	Kyoto
Sep 2020 — Aug 2022	Director Proiect, Universitatea de Vest Timişoara	Timişoara
Ian 2020 — Aug 2020	Cercetător Postdoctoral, Digital Humanities GeoInformatics Laboratory, Archaeological Research Unit, University of Cyprus	Nicosia
Mar 2019 — Dec 2019	Cercetător Asociat, Universitatea de Vest Timişoara	Timişoara
Mar 2018 — Ian 2019	Cercetător Asociat , West University of Timisoara	Timişoara
Ian 2014 — Apr 2015	Manager Proiect, ArheoVest Association	Timişoara

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EDUCAȚIE

Oct 2014 — Mar 2018	Doctorat în Geoarheologie, Universitatea de Vest din Timişoara, Departamentul de Geografie	Timişoara
Oct 2012 — Iun 2014	Masterat în Arheologie Interdisciplinară, Universitatea de Vest Din Timişoara, LIT	Timişoara
Oct 2009 — Iun 2012	Licenţă în Istorie , Universitatea de Vest Din Timişoara, LIT	Timişoara
Oct 2009 — Iun 2013	Departamentul Pentru Pregătirea Cadrelor Didactice, Nivel 1, Universitatea de Vest din Timişoara	Timişoara
Oct 2013 — Iun 2014	Departamentul Pentru Pregătirea Cadrelor Didactice, Nivel 2, Universitatea de Vest din Timişoara	Timişoara

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PROIECTE

1. Manager al Laboratorului Digital din cadrul proiectului Maritime Asia Heritage Survey, CSEAS derulat la Kyoto University, Japonia; 2021 - 2023;

Director Proiect: Prof. Michael Feener

2. Director Proiect, MEGA-FORTS PROJECT - The large Bronze Age fortifications from southwestern Romania - an interdisciplinary geoarchaeological approach, Universitatea de Vest din Timişoara.

3. Membru, Tibiscum Project, Diamond Grant, University of Warsaw, 2014-2016;

Director Proiect: Michal Pisz.

4. Membru voluntar, Enviarch Project, West University of Timisoara and Szeged University, C14 and TS/OSL laboratory development for geographical and archaeological studies. Director Proiect: Prof. Petru Urdea.

CERTIFICĂRI

Mar 2017 — Prezent	Certificat Arheolog Specialist emis de către Ministerul Culturii	Bucureşti

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EDUCATİON

From October 2014 to March 2018

Ph.D in Geoarchaeology
West University of Timisoara, Geography Department
Timişoara, Romania

My dissertation explored the application of several geo-methods in archaeology, ranging from geomorphology/micromorphology analysis and geophysics to complex GIS analyses and GEOBIA remote sensing. For example, I built an algorithm for automatic individualization and classification of geophysical anomalies using Ecognition. Additionally, this algorithm can be employed in a variety of fields of archaeological research for the purpose of generating geostatistical data using a GIS approach.

From October 2012 to June 2014

Master's degree in Interdisciplinary Archaeology
West University of Timisoara, History Department
Timişoara, Romania

My Master's thesis examined the chronological relationships between Early Iron Age sites in southern Romania's Banat region.

From October 2009 to June 2012

Bachelor's degree in History (Archaeology specialization)
West University of Timisoara, History Department
Timişoara, Romania

My bachelor thesis was a comprehensive survey of all Early Iron Age sites in the Banat region, totalling 734 pages and constituting the region's first comprehensive first complete repertoire of Early Iron Age sites.

From October 2009 to June 2014

Teaching qualifications (First and Second Level)
West University of Timisoara Timişoara, Romania

WORK EXPERİENCE

From April 2021 to April 2023

Digital Heritage Manager / Program Specific Researcher
Kyoto University, Center for Southeast Asian Studies Kyoto, Japan

I was employed with Kyoto University's Center for Southeast Asian Studies. I am the Maritime Asia Heritage Survey Project's Digital Heritage Director (https://maritimeasiaheritage.cseas.kyoto-u.ac.jp). I managed the Digital Heritage Lab, which focuses on big data in archaeology and heritage (LiDAR, photogrammetry, automatic detection, and satellite remote sensing, among others).

From September 2020 to August 2022

Project Director
West University of Timişoara Timişoara, Romania

I am the Principal Investigator for the MegaFORTS project. The Romanian government is funding the initiative. The funds for the project were raised via a national competition. The project uses non-invasive and minimally intrusive approaches to investigate the fortification systems of Bronze Age fortifications in southwestern Romania.

From January 2020 to July 2020

Postdoctoral Researcher
University of Cyprus Nicosia

Postdoctoral position at Digital Humanities GeoInformatics (DigHumanities GeoInfo Lab), Archaeological Research Unit, University of Cyprus. Supervisor: Prof. Apostolos Sarris

From March 2019 to December 2019

Research associate
European Space Agency Project at West University of Timisoara, Timisoara (Romania)
Timişoara

Advanced remote sensing - Optical and Synthetic Aperture Radar

From March 2018 to January 2019

Research associate
West University of Timisoara Timişoara, Romania

From January 2014 to April 2015

Research and development department manager
ArheoVest Association Timişoara, Romania

From April 2010 to 2013

Contracted archaeological surveyor
National Banat Museum Timişoara, Romania

SKİLLS

Archaeology

My archaeological fieldwork background knowledge includes a variety of excavation techniques, stratigraphy understanding, data recording, and more. Due to my few years of field experience on over 30 archaeological sites, I am capable of conducting an excavation or fieldwork activity from beginning to end.

Geophysics

Advanced knowledge of all geophysical methods (both terrestrial and aerial) used in archaeology, landscape archaeology or environmental approaches. This includes magnetometry (sensitive total field magnetometry or gradiometry - single or multichannel systems), Earth Resistance, Electrical Resistivity Tomography, Ground Penetrating Radar, Electromagnetic Induction and Thermography.

Remote Sensing

Advanced knowledge of:
- a variety of satellite data (mid-range or high-range resolution), both optical and radar (SAR).
- GIS, image processing and automatic classification.
- Large spatial databases.
- UAV (photogrammetry and LiDAR).
- LiDAR systems (both terrestrial and aerial)
- Topography (all instruments - total stations, DGPS systems, RTK).

Digital Humanities

Heritage big data management, advanced 3D modelling and reconstruction, automatization and classification, machine learning related to geoarchaeology and heritage, dissemination of digital products on dedicated platforms.

Geoarcaheology and Geomoprphology

Drillings and sample collection, Grain sizing analyses of soils, Basic elemental analyses of materials (pXRF), Impact assessment of changes within archaeological sites caused by natural conditions, Predictive models

PROJECTS AS PRİNCİPAL İNVESTİGATOR

The sleeping Giants. The large Bronze Age (2000/1900-900/800 BC) fortifications from southwestern Romania (MegaFORTS) – an interdisciplinary geoarchaeological approach

TEACHİNG ACTİVİTY

Introduction to Applied Geophysics (course and laboratories)
General Topography (course and laboratories)
GeoInformatics (course and laboratories)
* for undergraduate and M.A students - Geography Department, West University of Timisoara.