

CURRICULUM VITAE

Personal data

Name: Gyozo JORDAN

Qualifications: PhD - GIS digital terrain modelling (Uppsala University, Sweden)
MSc (Filosophie Licenciate) - environmental geochemistry (Uppsala University, Sweden)
MSc - geology and environmental geology (Eötvös University, Hungary)

Citizenship: Hungarian

Affiliation: Geological Institute of Hungary (MAFI), Environmental Geology Department

Position: Head, Geochemistry Programme, Environmental Geology Senior Researcher

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Education

University: **Eötvös Loránd University, Budapest**
Faculty of Natural Sciences, Institute for Earth Sciences, 1988 -1993
Degree: MSc in Geology & Environmental Geology (excellent grade) (1993)
MSc Thesis: Hydrogeological time series analysis and statistical modelling
Queen's University of Belfast, UK
Third year undergraduate studies in geology, 1990-1991

Postgraduate: **Uppsala University, Sweden**
Faculty of Science and Technology, Institute for Earth Sciences
MSc studies, 1993-1995
Degree: MSc (Licentiate) in Environmental Geochemistry (1995)
MSc Thesis: Analysis of heavy metal contamination at mine sites
PhD studies and research, 1997-2001
Degree: PhD in Quaternary Geology (2004)
PhD thesis: GIS applications for digital terrain modelling

Work and research experience

1997- **Geological Institute of Hungary (MÁFI), Environmental Geology Department**
Head, Geochemistry Programme (2007-): Action 1 - Geochemical Mapping, Action 2 - Environmental Geochemical Modelling
Senior Researcher (2006-): environmental geological and GIS data management, spatial geological modelling, digital terrain modelling, geochemical analysis and interpretation; erosion, catchment and sediment transport modelling, Hungarian Science Fund project leader
National Contact Point to EuroGeoSurveys (Association of European Geological Surveys), Member of the EuroGeoSurveys Geochemical Expert Group, Member of the Scientific Advisory Board of the Geological Institute (2007-)

2001-2004 **Joint Research Centre (JRC), European Commission, Italy**
Research Fellow: inventory and environmental impact assessment of mining and mining waste; expert support for the preparation of the EU Mine Waste Directive;

expert committee and workshop organisation

- 2000 **International Institute for Geo-Information Science and Earth Observation (ITC)**, The Netherland
Visiting Scientist: sediment transport modeling, terrain modelling (3 months)
- 2006-2007 **U.S. Geological Survey (USGS)**, U.S.A.
Visiting Scientist: geochemical modelling of contamination (6 months) (Fulbright Fellowship)
- 2006 **Univeristy of Natural Resources and Applied Life Sciences (BOKU)**, Austria
Visiting Scientist: sediment transport modelling in floodplains (4 months)

Awards and Honours

- Grant for Student of Excellence, Eötvös Loránd University (1989-1990)
- European Union TEMPUS Scholarship (1990-1991)
- Hungarian Academy of Science Szádeczky-Kardos Grant (1992)
- Swedish Institute Scholarship (1993-1995)
- Maria Stiftelsen Grant (1995)
- Annual Meeting of Young Earth Scientists, 2. Prize (1997)
- Hungarian Academy of Science Szádeczky-Kardos Award (1997)
- Uppsala Univerity PhD Scholarship (1997-2001)
- Soros Foundation Supplementary Grant (1998)
- European Commission Research Fellow Grant (2001-2004)
- Hungarian Academy of Science Szádeczky-Kardos Award (2005)
- Apponyi Albert Mecenatura Grant (2005)
- Eotvos Postdoctoral Grant, Hungarian Scholarship Board (2006)
- Senior Scholars Fellowship, Hungarian-American Enterprise and Scholarship Fund (2006)
- Bandat Horst Grant (2007)
- Bolyai Janos Research Grant, Hungarian Academy of Science. EXCELLENT GRADE: 2007, 2008
- Senior Researcher Grant, Fulbright Program (2007)
- Norwegian Fund: 'Furtherance of Int'l Acknowledged Young Researchers Career' Grant (2009-)

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Committees

- Expert Group Member: 'EuroGeoSurveys Mineral Resources Expert Group' (2008-)
- Expert Group Member: 'Accidental Pollution Task Group', UNDP ICPDR Danube River Basin Programme (2007-)
- Expert Group Member: 'Mine Waste Inventory Working Group', DG Environment-DG JRC, European Commission, Implementation of New EU Mine Waste (2007-)
- Member of the Scientific Advisory Board of the Geological Institute (2007-)
- Expert Group Member: UNDP/GEF Danube Region Project. Project Component 4.3: Monitoring and Assessment of Nutrient Removal Capacities of Riverine Wetlands (2006)
- National Contact Point: EuroGeoSurveys (Assoc. of European Geological Surveys) (2004-)
- Expert Group Member: European Environmental Agency, 'Polluted Soils Risk Assessment Expert Group' (2004-2005)
- Expert Group Member: 'EuroGeoSurveys Geochemical Expert Group' (1998-)
- Scientific Committee Member: The International Workshop 'European Union Expansion: Land Use Change and Environmental Effects in Rural Areas', Luxembourg (2005)

Teaching; Thesis Advisor

- PhD thesis: Modelling of heavy metal contamination in mine catchments and impacted floodplains. Szent Istvan University, Gödöllő, Hungary (2008-)
- PhD thesis: Geochemical modelling for the implementation of the EU Water Framework Directive in catchments. Szent Istvan University, Gödöllő, Hungary (2008-)
- PhD thesis: Modelling of landuse changes in the Balaton Catchment, Hungary. Katholic University of Leuven, Belgium (2006-)
- PhD thesis: Quaternary paleo-surface modelling with GIS. Eotvos University of Budapest, Hungary (2006-)
- PhD thesis: Hydrogeological analysis for the long-term suspension of the Recsk Deep Mines by flooding. University of Miskolc, Hungary (2003-2006)
- MSc thesis: Heavy metal contamination in mine-impacted stream sediments in the Parad Mining Area, Hungary. Miskolc University, Hungary (2008-)
- MSc thesis: Contamination potential assessment of mine waste rock dumps. Miskolc University, Hungary (2008-)
- MSc thesis: Impact of landuse changes on sediment fluxes in the Pecsely Basin, Hungary, Katholic University of Leuven, Belgium (2005)
- MSc thesis: Optimal landuse scenarios in a catchment impacted by historic mining. Recsk, Hungary, Katholic University of Leuven, Belgium (2005)
- MSc thesis: Remote sensing analysis of north-western Greece, ITC, The Netherlands (2000)
- Invited lecturer: Digital terrain modelling and 3D modelling, University of Western Hungary, Sopron (2005)

Conference & Workshop Organisation

- Secretary of the Organizing Committee: NATO Advanced Studies Institute Workshop 'Deposit and geoenvironmental models', Mátraháza, Hungary (1998)
- Organising Committee Member: International Workshop 'Linking regional scale inventory and watershed analysis to the impact assessment of mining activities', Orta, Italy (2002)
- Session Organiser & Chairman: Session 'Environmental assessment of mining and mining waste', European Congress on Regional Geoscientific Cartography and Information Systems, Bologna (2003)
- Organising Committee Member, & Session Chairman: European Union/European Commission 'Working Group on Inventories' Workshop, Implementation of EU Mine Waste Directive, Budapest, Hungary, 11-13 May (2009)

Journal Reviewer

- Occasional reviewer for Journal of Environmental Geology; Remote Sensing of Environment; Water, Air, & Soil Pollution; Journal of Maps; Geological Carpathica; Soil and Sediment Contamination; Landscape and Environment (Szeged University); Landscape Ecology Letters, Hungarian Landscape Association

Training & Courses

- Visual Basic Programming Training Course, Budapest, Hungary, 2006
- Mathematical Modelling of Earth Systems, IAMG Training Course, Barcelona, Spain, 1997
- US EPA Environmental Impact Assessment Training Course, Budapest, Hungary, 1996

Associations

- International Association of Geochemistry (2008-)
- Geological Society of America (GSA) (2007-2008)
- Hungarian Academy of Sciences, Public Researcher Board (2005-)
- International Association of Mathematical Geology (1997-)
- International Hydrological Association (1997-)
- Hungarian Geological Society (1990-)

- Hungarian Hydrology Association (1992-2001)