PERSONAL INFORMATION

Judit Mádl-Szőnyi

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Sex female | Date of birth 18/03/1963 | Nationality Hungarian

WORK EXPERIENCE

2016- **József and Erzsébet Hydrogeology Chair ELTE**
Chair holder

2013- **Wuhan University, Wuhan, China**
Invited lecturer

2012- **University of Ljubljana, Ljubljana, Slovenia**
Invited lecturer

2008-2014 **Department of Limnology, University of Pannonia, Veszprém, Hungary**
Lecturer

2004- **Department of Physical and Applied Geology, Eötvös Loránd University, Budapest, Hungary**
Associate professor

1997–2004 **Department of Physical and Applied Geology, Eötvös Loránd University, Budapest, Hungary**
Assistant professor

1991–1997 **Department of Physical and Applied Geology, Eötvös Loránd University, Budapest, Hungary**
Assistant lecturer

1986–1991 **Scientific Qualification Committee, Hungarian Academy of Sciences**
Research Fellow

1986–1988 **Institute of Water Resources Research, Budapest, Hungary**
Assistant researcher

EDUCATION AND TRAINING

1997 **PhD degree in Earth Sciences**
Eötvös Loránd University, Budapest, Hungary

1986 **Geology MSc**
Faculty of Science, Eötvös Loránd University, Budapest, Hungary

PERSONAL SKILLS

Mother tongue(s) Hungarian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	Independent user	Independent user	Independent user	Independent user	Independent user
	English B2 complex language certificate.				
Russian	Basic user	Basic user	Basic user	Basic user	Basic user
	Russian A1 complex language certificate				

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

Communication skills

- good communication skills gained through teaching experience at university and supervisor of BSc, MSc and PhD thesis projects
- invited speaker in conferences and in universities

Organisational / managerial skills

- have been working in scientific and organising committees of many international groundwater conferences.
- leader of international committes
- managing a scientific group since 2000 in ELTE
- leader of many nati14 onal and international R&D scientific projects, supervisor of 80+ BSc and MSc and PhD theses

Job-related skills good team-leading skills, cooperation ability

Digital competence

SELF-ASSESSMENT				
Information processing	Communication	Content creation	Safety	Problem solving
Independent user	Independent user	Independent user	Independent user	independent user

Levels: Basic user - Independent user - Proficient user
Digital competences - Self-assessment grid

Replace with name of ICT-certificate(s)

- good command of office suite (word processor, spread sheet, presentation software)
- good command of groundwater related softwares

Other skills

Driving licence Driving licence category “B”

ADDITIONAL INFORMATION

Awards and Scientific Admission

2011 Running under our feet? Underground flows in water circulation
TV presentation made by Encompass 2.0 Ltd. Hungary
2010 Pro Universitate Medal, Silver degree
2009 Excellent Lecturer of the Faculty, Faculty of Science, Eötvös Loránd University
2007 “Master Teacher Gold Medal”, Hungarian Young Researcher Competition
2007 Vitális Sándor Literature Award, Hungarian Hydrological Society
2006 Medal, Hungarian Young Researcher Competition
2000 Vitális Sándor Medal, Papp Simon Foundation
2000 Vitális Sándor Literature Award, Hungarian Hydrological Society
1998 Lecturer Award, Hungarian Young Researcher Competition, Environmental and Land Use Ministry
1990 III. Prize, Research Competition, Hungarian Academy of Sciences
1989 Seeded Award, Research Competition, Hungarian Academy of Sciences

Scholarship

2016- 2017 Rector Excellency Researcher and Teacher of ELTE
2001–2004 Békésy György Postdoctoral Fellow

Role in the Scientific Committee

2014- Member of the Geological Board of Hungarian Academy of Sciences
2013– Member of the Hydrogeology Sub-Commission of the Hungarian Academy of Sciences
2012– Chair of the Regional Groundwater Flow Commission of IAH (International Association of Hydrogeologists)
2011–2012 Member of the Board and co-Chair of the Regional Groundwater Flow Commission of IAH
2011– An initiator of the foundation of Regional Groundwater Flow Commission in IAH
2010–2014 Associate Editor of Hydrogeology Journal
2010– Member of the Editorial Board of Geological Research
2009– Chair of the Hungarian Nominating Committee, József and Erzsébet Tóth Graduate Scholarship in Hydrogeology
2009-2013 Scientific Qualification Committee: Hungarian Academy of Sciences, Budapest, Hungary Research fellow
2008– Invited member of the Karst Commission of IAH
2007–2010 Member of the Chamber of Hungarian Architects, Heat Pump Section
2007–2010 Member of the Hungarian Accreditation Committee
2006– Committee member of the Hungarian National Chapter of IAH
2006–2010 Member of the Hydrogeology Presidency
2004– Member of the Hungarian Speleological Society
2004– Co-Chair holder of the UNESCO Chair “Erdélyi Mihály” School of Advanced Hydrogeology
2003–2008 Member of the Erdélyi Mihály Foundation
1998– Member of IAH
1998– Member of the Hungarian Hydrological Society
1986– Member of the Hungarian Geological Society

Organization of International Conferences and Activity in Scientific Committees

2015 Member of the Scientific Committee of the 1st EAGE/TNO Workshop of Basin Hydrodynamic Systems in relation to their Contained Resources, 6–8 May 2015, Utrecht, the Netherlands
2014 Session Chair on the 41st IAH Congress, 15–19 September 2014, Marrakech, Morocco
2013 Chair of the International Symposium on Hierarchical Flow Systems in Karst Regions, 4–7 September 2013, Budapest, Hungary
2013 Invited Speaker on Xi'an Congress on Groundwater Flow Systems, 21–23 June 2013, Xi'an, China
2013 Keynote Speaker on IAH Central European Groundwater Conference 2013 Geothermal Applications and Specialities in Groundwater Flow and Resources, May 8–10 2013, Mórahalom, Hungary
2012 Session Chair on the 39th IAH Congress, 16–21 September 2012, Niagara Falls, Canada

2011 Member of the Scientific Committee of the 9th Conference on Limestone Hydrogeology, 1–3 September 2007, Besançon, France
2006 Member of the Scientific Committee of the 8th Conference on Limestone Hydrogeology, 21–23 September 2006, Neuchâtel, Switzerland
2001 Member of the Scientific Committee of the 7th Conference on Limestone Hydrology and Fissured Media, 20–22 September 2001, Besançon, France

Research grants

2012–2016 "Hypogenic karstification processes with the main focus on the role of microbes" Hungarian Research Grant

2004–2006 "Impact of groundwater flow on actuogeological processes in the Central Danube Region of the Pannonian Basin" Hungarian Research Grant

Research and Development Projects

2012–2013 and 2009–2011 Hydrocarbon entrapment connected to fluid potential anomalies, MOL Project

2007–2009 Impact of hydrothermal and meteoric water on the reservoir development on the example of Buda Thermal Karst, Hungary, Shell Project

Publications

Author or co-author of 50+ scientific papers, 11 books, 32 book chapters, 50+ conference papers (in the last 5 years 11 papers in Q1, 5 papers in D1).

Mádl-Szőnyi J., Czauner B., Iván V., Tóth Á., Simon Sz., Erőss A., Bodor P., Havril T., Boncz L., Sőreg V. (2017): Confined carbonates–Regional scale hydraulic interaction or isolation?–Marine and Petroleum Geology, DOI: 10.1016/j.marpetgeo.2017.06.006, 22p.

Erhardt I., Ötvös V., Erőss A., Czauner B., Simon Sz., Mádl-Szőnyi J. (2017): Hydraulic evaluation of the hypogenic karst area in Budapest (Hungary).–Hydrogeology Journal 25(6), 1871–1891.

Havril T., Molson J.W., Mádl-Szőnyi J. (2016): Evolution of fluid flow and heat distribution over geological time scalea at the margin of unconfined and confined carbonates sequences–A numerical investigation based on the Buda Thermal Karst analogue.–Marine and Petroleum Geology 78, 738–749.

Mádl-Szőnyi J., Simon Sz. (2016): Involvement of preliminary regional fluid pressure evaluation into the reconnaissance geothermal exploration—Example of an overpressured and gravity-driven basin.–Geothermics 60, 156–174.

Dobosy P., Sávoly Z., Óvári M., Mádl-Szőnyi J., Záray Gy. (2015): Microchemical characterization of biogeochemical samples collected from the Buda Thermal Karst System, Hungary.–Microchemical Journal 124, 116–120.

Mádl-Szőnyi J., Tóth Á. (2015): Basin-scale conceptual groundwater flow model for an unconfined and confined thick carbonate region. – Hydrogeology Journal 23(7), 1359–1380.

Mádl-Szőnyi J., Pulay E., Tóth Á., Bodor P. (2015): Regional underpressure: a factor of uncertainty in the geothermal exploration of deep carbonates, Gödöllő Region, Hungary.–Environmental Earth Sciences 74(12), 7523–7538.

Czauner B., Mádl-Szőnyi J. (2013): Regional hydraulic behaviour of structural zones and sedimentological heterogeneities in an overpressured sedimentary basin.–Marine and Petroleum Geology 48, 260–274.

Borsodi A.K., Knáb M., Krett G., Makk J., Márialigeti K., Erőss A., Mádl-Szőnyi J. (2012): Biofilm bacterial communities inhabiting the cave walls of the Buda Thermal Karst System, Hungary.–Geomicrobiology Journal 29(7), 611–627.

Czauner B., Mádl-Szőnyi J. (2011): The function of faults in hydraulic hydrocarbon entrapment: Theoretical considerations and a field study from the Trans-Tisza region, Hungary.–AAPG Bulletin 95, 795–811.

Simon Sz., Mádl-Szőnyi J., Müller I., Pogácsás Gy. (2011): Conceptual model for surface salinization in an overpressured and a superimposed gravity flow field, Lake Kelemenszék area, Hungary.–Hydrogeology Journal 19(3), 701–717.

Goldscheider N., Mádl-Szőnyi J., Erőss A., Schill E. (2010): Thermal water resources in carbonate rock aquifers.–Hydrogeology Journal 18(6), 1303–1318.