

## Magdalena NĂPĂRUȘ, PhD (geography)

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### CURRICULUM VITAE

#### Personal

- \* Born: Sinaia, Romania, 19 June 1978
- \* Citizenship: Romanian

#### Academic Achievements

- \* Ph.D., geography: University of Bucharest, Doctoral School of Faculty of Geography, Romania, 2005–2009;
- \* University of Liège, Belgium, Masters degree, part of *Natural Risk Management* program, February–July 2004
- \* MSc. in *Dynamic Geomorphology and Environmental Protection*, University of Bucharest, Faculty of Geography, Romania, 2003–2004;
- \* BSc. geography, Faculty of Geography, University of Bucharest, Romania, 1999–2003.

#### Professional Activities

- \* 2011 – onward: Research assistant at the research centre *Landscape –Territory: SIP*, Faculty of Geography, University of Bucharest
- \* 2010 - onward: GIS analyst at Tular Cave Laboratory, Kranj, Slovenia;
- \* 2007–August 2010: ITP U.S. ESRI authorized instructor and technical support for ESRI products, GEOSYSTEMS Romania, Bucharest, Romania; Main activities and responsibilities: GIS analysis and software product implementation; designing large scale database schemas for utility companies and mapping agencies; creating procedures and workflows for data migration, data editing (non-versioned and versioned geodatabases) and data quality assurance/quality control.
- \* 2005–2008: Ph.D project: *Salt karst: dynamic and risk phenomena. Comparative study between the natural karst from Meledic Plateau and the anthropic karst from Ocnele Mari, Romania*, University of Bucharest, Doctoral School of Faculty of Geography, Romania;
- \* 2004–2005: Stereo Cartographer, CartingPro, Bucharest, Romania;
- \* 2003–2004: Secondary school teacher for *Geography and Environmental Science*, Simion Stolnicu High-school, Comarnic, Prahova County.

## Teaching Experience

- \* ESRI Romania, Bucharest, training instructor for the following GIS courses: *Learning GIS Using ArcGIS Desktop version 9.x; Introduction to ArcGIS I & II for ArcView 9, ArcEditor 9 and ArcInfo 9 version 9.x; Building Geodatabases 9.2 version 9.x; Geodatabase Design and Concepts version 9.x; Working with ArcGIS 9.x Network Analyst; Working with ArcGIS 9.x Spatial Analyst; Introduction to Multiuser Geodatabases; Managing Editing Workflows In A Multiuser Geodatabase; Introduction to ArcScan for ArcGIS; Working with ArcGIS 9.x Data Interoperability; Advanced Analysis with ArcGIS; Introduction to ArcGIS 9; Geostatistical Analyst ; PLTS for ArcGIS 9.x* – courses held to ESRI Romania office or to other locations in Romania, (2008–2010);
- \* Faculty of Geography, University of Bucharest, Romania – *Introduction to ArcView 3.2/3.3*, classes for students on Master degree classes (2007–2008);
- \* Faculty of Geography, University of Bucharest, Romania – *Physical geography* - classes for students in the second year, (2006–2007);
- \* Simion Stolnicu High-school, Comarnic, Prahova County, Secondary school teacher for *Geography and Environmental Science*, (2003–2004).

## Other Skills

- \* *Languages*: active Romanian, English, French; basic Slovenian; passive Russian, Spanish;
- \* *International field experience*: Belgium, France, Italy (Sardinia), The Netherlands (2004); Slovenia (2007, 2008, 2009, 2010, 2011);
- \* *Caving experience*: survey and explorations (10 years experience);
- \* *Computer skills*: Operating systems: Windows; Desktop GIS: ArcGIS Desktop 9.3.1, ArcView3.2, SISCAM3.2, GCarto, ERDAS Image, ESRI Spatial Analyst, ErMapper, GlobalMapper, Surfer 8; Databases: SQL Server, MS Access, PostgreSQL; GIS Data Management: PostgreSQL, SQL Server 2008; very good knowledge of Microsoft Office suite software, Adobe Illustrator; Web design (Macromedia Dreamweaver);
- \* *GPS*: Trimble GeoXT and Garmin.

## Grants and Awards

- \* June 2009, Marie Curie grant-holder SMART-KARST project, MSCF-CT-2005-029674 at the 17<sup>th</sup> International Karstological School “*Classical Karst*”, Cave climate, Postojna, Slovenia;
- \* June 2008, Marie Curie grant-holder SMART-KARST project, MSCF-CT-2005-029674 at the 16<sup>th</sup> International Karstological School “*Classical Karst*”, Karst sediments, Postojna, Slovenia;

- \* June 2007, Marie Curie grant-holder SMART-KARST project, MSCF-CT-2005-029674 at the 15<sup>th</sup> International Karstological School “*Classical Karst*”, Management of transboundary karst aquifers, Postojna, Slovenia;
- \* May 2006, award at the National Courses in underground survey and mapping Closani, Romania;
- \* August 2005, First prize and the Speleology Institute "Emile Racovitza" medal at the National Courses in karstology and geospeleology (Romanian Academy, Speleology Institute "Emile Racovitza", Romanian Speleology School), Carbunari, Romania;
- \* September 2005–August 2008 Scholarship at University of Bucharest, Faculty of Geography for PhD project “*Salt karst – dynamic and risk phenomena. Comparative study between natural karst from Meledic Plateau and the anthropic karst phenomena from Ocnele Mari*”;
- \* February–July 2004, SOCRATES-ERASMUS Scholarship for Master classes in “Natural risk management” at Université de Liège, Belgium;
- \* March–June 2004, Grant for the project “The stalagmites morphology and microclimate study in the Comblain-au-Pont cave (Belgium)”, Université de Liège, Belgium.

### Membership

- \* Research Centre Landscape –Territory – SIP, University of Bucharest (2011–present);
- \* Romanian Association of Limnogeography (2010–present);
- \* Tular Cave Laboratory, Kranj, Slovenia (2009–present);
- \* Speological Association “Exploratorii”, Resita, Romania – IUCN member (2006–present);
- \* Romanian Speological Federation (1999–present).

### List of publications

#### Publications

- \* **Năpăruș M** , Kuntner M. 2012 A GIS Model Predicting Potential Distributions of a Lineage: A Test Case on Hermit Spiders (Nephilidae: *Nephilengys*). PLoS ONE 7(1): e30047. doi:10.1371/journal.pone.0030047
- \* **Năpăruș, M.** 2006. Collapses evolution in “The wells field II” (Teica) within the period 2001–2005. *Geography abstracts (Comunicari de Geografie)* 10: 97–100.
- \* **Năpăruș, M.** 2005. Salt karst in Romanians Sub Carpathians area. Hierarchy and morphological aspects. *Annals of the “Spiru Haret” University, (series Geography)* 9: 87–92.

## Proceedings of conferences and public presentations (2004 – 2011)

- \* Aljančič, G., **Năpăruș, M.**, 2011. *Proteus* after flooding: should we save the animals or let them be? *Proceedings of the 19<sup>th</sup> International Karstological School "Classical Karst": Karst underground protection*, Postojna, Slovenia: 20.
- \* National Institute for Nature Conservation workshop on questions of public presentation of black *Proteus* and karst, Jelševnik spring (2011).
- \* **Năpăruș, M.**, Aljančič, G. and Oštir, K., 2010. Design of a GIS database to monitor possible threats to the habitat of *Proteus anguinus* (Amphibia: Proteidae). A case study of a highly vulnerable population of *P. a. parkelj* in Bela krajina, Slovenia. *Abstract book of the 20<sup>th</sup> International Conference on Subterranean Biology*, Postojna, Slovenia, 29 August–3 September 2010: 88-89.
- \* Aljančič, G. and **Năpăruș, M.** 2009. Monitoring of *Proteus anguinus* in semi-natural conditions of Cave Laboratory Tular – a GIS approach. *Proceedings of the 17<sup>th</sup> International Karstological School "Classical Karst": Cave climate*, Postojna, Slovenia: 50.
- \* **Năpăruș, M.** and M. Mocuța, 2008. Significance of topographical measurements performed between 2006 and 2007 for analyzing the morphology of the collapse sinkhole established on the anthropic salt karst from Ocnele Mari, Romania. Poster presentation at the 16<sup>th</sup> International Karstological School "Classical Karst": Karst sediments, Postojna, Slovenia: 88.
- \* **Năpăruș, M.** 2007. Estimation of Ocnele Mari Well Field II sinkhole outline based on the marks monitored between March–September 2006. Presentation at the Annual Conference at the Faculty of Geography, University of Bucharest.
- \* **Năpăruș, M.** 2007. Field No. 2 – Ocnele Mari: dynamical considerations of salt karst collapse sinkhole between July 2005 and October 2006. Presentation at the Annual Conference at the Faculty of Geography, University of Bucharest.
- \* **Năpăruș, M.** 2007. The dynamic of the collapse sinkhole within the anthropic salt karst from Ocnele Mari, Romania. *Poster presentation at the 15<sup>th</sup> International Karstological School "Classical Karst": Management of transboundary karst aquifers*, Postojna, Slovenia.
- \* **Năpăruș, M.** 2004. Morphologie des stalagmites et micro-climatologie à la Grotte et l'Abime de Comblain-au-Pont (Belgique). ERASMUS project presented at the University of Liege, Belgium.
- \* **Năpăruș, M.** 2004. Microclimate and CO<sub>2</sub> level in the Comblain-au-Pont cave, Belgium. Presentation at Speomilenium Conference, "Emil Racovitza" Babeș-Bolyai University, Cluj-Napoca, Romania.
- \* Ek, C., Godissart, J., & **Năpăruș, M.** 2004. Fortes teneur en CO<sub>2</sub> à la grotte de Comblain-au-Pont. Journées de Spéléologie scientifique, Han-sur-Lesse, Belgium. Abstracts.