

## Prof. Ileana Pătru-Stupariu

*University of Bucharest*

*Institute of Research of University of Bucharest, ICUB, CeLTIS*

*Department of Regional Geography and Environment, Faculty of Geography*



### Personal information

|                        |   |
|------------------------|---|
| Surname                | Pătru-Stupariu  |
| Christian names        | Georgeta-Ileana   |
| Academic degree        | Dr.   |
| Date of birth          | December 14, 1970   |
| Place of birth         | Calafat, România  |
| Citizenship            | Romanian  |
| Civil status           | Married, one child  |
| Address (professional) | Bd. N. Balcescu, 1; 010041 Bucharest, Romania   |
| E-mail                 | ileana.stupariu@geo.unibuc.ro; ileanageorgeta@yahoo.com   |
| Website                | <a href="http://landscape.cc.unibuc.ro/">http://landscape.cc.unibuc.ro/</a> <a href="http://prof.unibuc.ro/prof-ileana-stupariu/">http://prof.unibuc.ro/prof-ileana-stupariu/</a> |
| Title                  | Professor   |
| Profession             | Geographer  |

### Research interests

Ileana Pătru-Stupariu is the head of the Transdisciplinary Research Center Landscape–Territory–Information Systems (CeLTIS) at the Institute of Research of University of Bucharest. Her research interests are related to landscape ecology, ecological modelling, modeling of landscape dynamics, landscape fragmentation, ecosystem/ landscape services, landscape planning, land use / land cover change, cultural landscape, landscape visual assessment and Geographic approaches (nature and society).

### Education and degrees

|           |  |
|-----------|--|
| 1989-1993 | Faculty of Geography, University of Bucharest  |
| 1993      | Master Degree (Diploma) in Geography, University of Bucharest                                  |
| 1993-1999 | PhD-student, with a position as assistant at the Faculty of Geography, University of Bucharest |
| 1999      | PhD, in Geography, University of Bucharest   |

### Awarded scholarships

|      |   |
|------|---|
| 1996 | Tempus PhD stipend, University of Liege - Belgium |
|------|---|

## Work Experience

### Academic positions

|            |  |
|------------|--|
| 1993-1996  | Subassistant, Faculty of Geography, University of Bucharest        |
| 1996-2000  | Assistant, Faculty of Geography, University of Bucharest           |
| 2000-2002  | Assistant professor, Faculty of Geography, University of Bucharest |
| 2002-2006  | Associate professor, Faculty of Geography, University of Bucharest |
| Since 2006 | Professor, Faculty of Geography, University of Bucharest           |
| Since 2007 | PhD advisor  |

### Research fellowships

|            |   |
|------------|---|
| 2003, 2004 | University of Liege - Belgium                       |
| 2003       | University of Lyon, University of Grenoble - France |
| 2004       | University Paris XII - France                       |

### Teaching fellowships (Socrates-Erasmus) and research visits

|                            |  |
|----------------------------|--|
| May<br>2001,2002,2003      | University of Bari, University Roma Tre - Italy  |
| May<br>2004,2005,2006      | University Paris XII - France  |
| February 2010              | University Liege – Belgium, member of a doctoral commission                                |
| Mai 2013                   | University Liege –Belgium joint research in doctoral activities                            |
| October 2012,<br>July 2015 | WSL Zürich - Switzerland joint researches as PhD supervisor                                |
| June, July 2013            | WSL Zürich, EPFL Lausanne - Switzerland joint researches as PhD supervisor                 |
| June, July 2015            | WSL Zürich, EPFL Lausanne - Switzerland joint researches as PhD supervisor                 |
| June - July 2018           | MLU – Germany – Visiting researcher. Tasks: joint publications and project proposals,talks |

### Supervised PhD theses

|                      |   |
|----------------------|---|
| 2007-2015            | 7 theses finalized, <i>Simion Mehedinți</i> Geography Doctoral School of the University of Bucharest  |
| 2013-2019, presently | Ioana Stoicescu, Sorina Bogdan, Irina Năstase, Pascu Marioara,Calotă Ana-Maria, Pleșoianu Alin - <i>Simion Mehedinți</i> Geography Doctoral School of the University of Bucharest |

## Participation in research projects

### a) International Projects

#### Joint researches

1. **SCIEX** (WSL, Birmensdorf-Zürich, Switzerland, University of Bucharest) *Modelling Urban Sprawl and its Effect on Landscape Pattern (MUSELP)*. Mentors: Anna Hersperger / Ileana Pătru-Stupariu; PhD student: Simona Grădinaru **(2014-2015)**.
2. **SCIEX** (EPFL Lausanne, Switzerland, University of Bucharest) *Landscape integration in the procedure of environmental impact assessment (LANDEIA)*. Mentors: Alexandre Buttler / Ileana Pătru-Stupariu; PhD student: Andreea Niță **(2012-2013)**.

3. **SCIEX** (EPFL Lausanne, Switzerland, University of Bucharest) *A multi scale resolution DEM processing using wavelet-based filtering techniques, 3D analyses and geostatistics (3DEMGEOSTATS)*. Mentors: François Golay / Ileana Pătru-Stupariu; PostDoc student: Magda Năpăruș (2012-2013).
4. **SCIEX** (WSL, Birmensdorf-Zürich, Switzerland, University of Bucharest) *Land use conflicts and environmental planning (LUCLP)*. Mentors: Anna Hersperger / Ileana Pătru-Stupariu; PhD student: Alina Tudor (2012-2013).
5. **WBI** (University of Liège, Belgium, University of Bucharest) *Monitoring paysager des parcs nationaux grâce aux outils de l'écologie du paysage*. Mentors: Ileana Pătru-Stupariu / Serge Schmitz; PhD student: Alexandra Teleucă (2012-2013).
6. **POSDRU (EU / Government of Romania)** (University of Bucharest) *Evaluation of accessibility and attractiveness of urban parks in Bucharest*. Mentor: Ileana Stupariu, Postdoc: Diana Onose (2014)
7. **POSDRU (EU / Government of Romania)** (University Paris-Est Créteil Val de Marne, University of Bucharest) *Quantitative and qualitative analysis of urban landscape. Case study: Sinaia city*. Mentors: Abdelkader Abdellaoui / Ileana Pătru-Stupariu; PhD student: Alina Huzui (2011).
8. **POSDRU (EU / Government of Romania)** (University Paris-Est Créteil Val de Marne, University of Bucharest) *Landscape management, assessment and prognosis. Case study: Babadag Lake and surroundings*. Mentors: Abdelkader Abdellaoui / Ileana Pătru-Stupariu; PhD student: Iulia Călin (2010).

#### **Main investigator**

1. **AUF - Recherche en reseau** (University of Liège, Belgium, University of Bucharest) *Apports de la teledetection pour l'etude des georisques en Roumanie*, funded by Agence Universitaire de la Francophonie (2003-2005).
2. **MRT** (University of Liège, Belgium, University of Bucharest) *The use of photogrammetry in the study of landslide dynamics*, funded by Research and Technology Ministry - Belgium (2003-2004).

#### **Member of the research team**

1. **BMBF/DLR Social-Ecological Research and Technological Innovations for Connecting Cultural Ecosystem Services (SERVICES)**, funded by Projektantrag im Programm Internationale Zusammenarbeit in Bildung und Forschung, Region Mittelost- und Südosteuropa Bundesministerium für Bildung und Forschung, P.I Christine Fürst (KIT – The Research University in the Helmholtz Association Karlsruhe Institute of Technology) Project manager for RO Ileana Stupariu (University of Bucharest)./ (2016-2017) <http://services.eli-web.com/index.php?article=romania&lang=english>
2. **SNSF-UEFISCDI Improved wind energy assessment based on coupled wind, terrain, and vegetation modeling (WindLand)**. Principal Investigators Fernando Porté-Agel (Switzerland, EPFL) and Mihai-Sorin Stupariu (Romania, University of Bucharest)./ (2013-2015).
3. **PAI Brancusi Riscuri asociate sistemelor hidrogeomorfologice si amenajarea teritoriului (Risks associated to hydro-geomorphologic systems and territorial planning)**. Project manager Liliana Zaharia, University of Bucharest./ (2011-2012).

## **b) National Projects**

#### **Main investigator**

1. **CNCSIS-UEFISCSU Development and implementation of an algorithm for landscape assessment and prognosis. Application to the mountainous and subcarpathian sector of the Prahova Valley**, funded by The National University Research Council in Romania (2009-2011).
2. **CNCSIS-UEFISCSU Sustainable management of Subcarpathian landscapes: prioritizing methods and means**, funded by The National University Research Council in Romania (2006-2008).
3. **CNCSIS-UEFISCSU Landscape dynamics and assessment in mountainous passageways of the Southern Carpathians**, funded by The National University Research Council in Romania (2001-2002).

### **Member of the research team (selection)**

1. **CNCSIS-UEFISCSU** *Dynamic interaction between the natural and human components based on the synergy of ecological and socio-economic factors in the rapidly urbanizing landscapes.* Project manager Cristian Iojă, funded by The National University Research Council in Romania **(2012-2015)**.
2. **POSDRU** Optimizarea procesului de inserție a absolvenților din domeniul geografie pe piața forței demuncă, *Geoinsert*, Contract nr. POSDRU/86/1.2/S/57462, **(2010 – 2013)** *Manager de proiect*, Prof.univ. dr. Ioan Ianoș.
3. **IER-SPOS** *The competitive potential of economic growth: guiding lines for a new industrial policy in Romania.* Institutul European din România Studii de Strategie și Politici SPOS 2010. Project manager Valentin Cojan, Academy of Economic Studies **(2010)**.

### **Publication record**

h-index 11

[https://scholar.google.ro/citations?hl=ro&user=wUcJUv8AAAAJ&view\\_op=list\\_works&sortby=pubdate](https://scholar.google.ro/citations?hl=ro&user=wUcJUv8AAAAJ&view_op=list_works&sortby=pubdate)

26: ISI publications recorded

17: Peer - reviewed publications (BDI)

12: Books and books chapters

27: Proceedings of international conferences

35: Proceedings of national conferences

### **List of main research papers**

#### **ISI publications**

#### **First Quartile (Zone A)**

1. Fang J., Peringer A., Stupariu M.S., **Pătru-Stupariu I.**, Buttler A., Golay F. Porte-Agel F., **(2018)** *Shifts in wind energy potential following land-use driven vegetation dynamics in complex terrains*, accepted with revisions *Science of Total Environment*
2. **Pătru-Stupariu I.**, Stupariu M.S., Stoicescu I., Peringer A., Buttler A., Fürst Ch. **(2017)** *Integrating geobiodiversity features in the analysis of landscape patterns*, *Ecological Indicators* 80: 363–375
3. Năpăruș-Aljančić M., **Pătru-Stupariu I.**, Stupariu M-S. **(2017)** *Multiscale wavelet-based analysis to detect hidden geodiversity*. *Progress in Physical Geography* : 26, pp. 601–619
4. **Pătru-Stupariu I.**, Tudor C.A., Stupariu M.S., Buttler A., Peringer A. **(2016)** *Landscape persistence and stakeholders' perspective . The case of the Romanian Carpathians*. *Applied Geography*, 69: 87-98.
5. Peringer, A., Schulze, K. A., **Pătru-Stupariu I.**, M.S. Stupariu, Rosenthal G., Gillet, F. & A. Buttler **(2016)** *Multi-scale feedbacks between tree regeneration traits and herbivore behaviour explain the structure of pasture-woodland mosaics* *Landscape Ecology*, 31, 4: 913-927.
6. **Pătru-Stupariu I.**, Stupariu M.S, Tudor C.A., Grădinaru S.R., Gavrilidis A., Kienast F., Anna M. Hersperger A.M. **(2015)** *Landscape fragmentation in Romania's Southern Carpathians: testing a European assessment with local data*. *Landscape and Urban Planning* 143: 1-8.
7. Grădinaru S.R., Iojă C.I, Onose D., Gavrilidis A., **Pătru-Stupariu I.**, Kienast F., Hersperger A. **(2015)** *Land abandonment as a precursor of built-up development at the sprawling periphery of former socialist cities*. *Ecological Indicators* 57:305–313.
8. Nită A. , Buttler A. , Rozyłowicz L., **Pătru-Stupariu I** **(2015)** *Perception and use of landscape concepts in the procedure of Environmental Impact Assessment; case study – Switzerland and Romania*. *Land Use Policy* 44:145–152.

9. Tudor, C. A., Iojă, I. C., Rozyłowicz, L., **Pătru-Stupariu, I.**, Hersperger, A. M. (2015). Similarities and differences in the assessment of land use associations by local people and experts. *Land Use Policy Journal* 49, 341-351.
10. Tudor, C.A., Iojă, C. I., **Pătru-Stupariu, I.**, Niță, M.R., Hersperger, A., (2014), *How successful is the resolution of land-use conflicts? A comparison of cases from Switzerland and Romania*. *Applied Geography*. 47 , 125-136.
11. Angelstam P., Axelsson R., Elbakidze, M., Laestadius, M., Lazdinis, L., Nordberg, M., **Pătru-Stupariu, I.**, Smith, M. (2011) *Knowledge production and learning for sustainable forest management: European regions as a time machine*. *Forestry An International Journal of Forest*, 84 (5): 581-596.

### Second Quartile (Zona B)

1. Grădinaru S.R., Iojă C., **Pătru-Stupariu I.**, Hersperger A., (2017) Are spatial planning objectives reflected in the evolution of urban landscape patterns? A framework for the evaluation of spatial planning outcomes. *Sustainability* 9 (8), 1279.
2. Peringer A., Buttler A., Gillet F., **Pătru-Stupariu I.**, Schulze K., Stupariu M.S., Rosenthal G. (2017) *Disturbance-grazer-vegetation interactions maintain habitat diversity in mountain pasture-woodlands* *Ecological Modelling*, 359, 301-310
3. Peringer A., Gillet F., Gert R., Stoicescu I., **Pătru-Stupariu I.**, Stupariu M.S., Buttler A. (2016) *Landscape-scale simulation experiments test Romanian and Swiss management guidelines for mountain pasture-woodland habitat diversity*. *Ecological Modelling* 330, 41-49.
4. Stoiculescu R., Huzui A., Gavrilidis A., **Pătru-Stupariu I.**, Nita A., Călin I., Cuciulan A. (2014) *What is the spatial link between the roman civilization and cultural landscape in Romania?* *Journal of Maps*. 10, 2 297-307.
5. **Pătru-Stupariu I.**, Angelstam P., Elbakidze M., Huzui A., Andersson K. (2013) *Using spatial patterns and forest history to identify potential high conservation value forests in Romania*. *Biodiversity and Conservation*. 22: 2023-2039.
6. Huzui A., Abdellaoui A., **Pătru-Stupariu I.** (2013) *Analyzing urban dynamics using multi-temporal satellite images in the case of a mountain area, Sinaia (Romania)*. *International Journal of Digital Earth* 6,6: 563-579.
7. **Pătru-Stupariu I.**, Stupariu M.S., Cuculici R., Huzui A. (2011) *Understanding landscape change using historical maps. Case study Sinaia, Romania*. *Journal of Maps*, v2011:206-220.

### Third Quartile (Zona C) and ISI INDEX

1. Bogdan S., **Pătru-Stupariu I.**, Zaharia L., (2016) The Assessment of Regulatory Ecosystem Services: The Case of the Sediment Retention Service in a Mountain Landscape in the Southern Romanian Carpathians *Procedia Environmental Sciences*, 32: 12-27.
2. Gavrilidis A.A., Grădinaru S.G, Iojă C., Cârstea E.M. **Pătru-Stupariu. I** (2015), Land use and land cover dynamics in the periurban area of an industrialized east-european city an overview of the last 100 years. *Carpathian Journal of Earth and Environmental Sciences*
3. Cioacă T, Dumitrescu B., Stupariu M.S., **Pătru-Stupariu I**, Năpăruș M., Stoicescu I., Peringer A., Buttler A., and Golay F (2015) Heuristic-driven Graph Wavelet Modeling of Complex Terrain **ICGIP** <http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=2195674> , doi: 10.1117/12.2179132
4. Tudor, C.A., Iojă, I.C., Hersperger, A.; **Pătru-Stupariu, I.**, (2013): *Is the residential land use incompatible with cemeteries location? Assessing the attitudes of urban residents*. *Carpathian Journal of Earth and Environmental Sciences* 8, 2: 153-162.
5. Grădinaru, S.R., Iojă, I.C., **Pătru - Stupariu, I.**, Niță, M.R., Gavrilidis, A., Cârstea, E. (2013), *Land abandonment changes between 2005 and 2008 in Bucharest city*, *Procedia Technology Series 8* Pages: 536-539.

6. Huzui A., Călin I., **Pătru-Stupariu I. (2012)** *Spatial pattern analyses of landscape using multi-temporal data sources*. Procedia Environmental Sciences Elsevier 14:98-110.
7. Cojanu V., Dobre R., **Pătru-Stupariu I. (2012)** *The accessibility buffer – a basic GIS tool in determining the Competitive Potential Index*. Procedia Environmental Sciences Elsevier 14:237-246.
8. Cojanu V., **Pătru-Stupariu I.**, Dobre R. (2011) *An exploratory study of the regional context of competitive development in Romania*. Transylvanian Review of Administrative Sciences 33:67-89.

## Professional visibility

1. **Leader of IALE Romania**. IALE - International Association of Landscape Ecology <http://www.landscape-ecology.org/index.php?id=46>
2. **Leader of WG EDU** - International Association of Landscape Ecology <http://www.landscape-ecology.org/working-groups/landscape-ecology-in-schools.html>
3. **Member of WG 3DLM** - International Association of Landscape Ecology <http://www.landscape-ecology.org/working-groups/3d-landscape-metrics.html>
4. **Editor**. Procedia Environmental Sciences, **Elsevier**, Volume 14, Pages: 98-110, DOI: 10.1016/j.proenv.2012.03.010; 2012, <http://www.sciencedirect.com/science/journal/18780296>
5. **Membership of Editorial Boards**. *Bucovina forestieră* <http://www.bucovina-forestiera.ro/>
6. **Reviewer**. I have been invited to review papers for ISI publications: Biodiversity and Conservation; Remote Sensing; Applied Geography; Ambio; International Journal of Geographical Information Science; Comptes Rendus Geoscience; Regional Environment Change; Wetlands Ecology and Management; Annals of Forest Research; Environmental Monitoring and Assessment, OpenGeosciences
7. **Expert evaluator for projects**. **DFG** German Research Foundation (2015); **ESPON** 2013 Knowledge Support System (2011-2013); **AUF** Agence Universitaire de la Francophonie – Bureau Europe Centrale et Orientale (2007-2012, 2017); **CNCSIS** National University Research Council in Romania (2004-2008,2017); Evaluator of Government Student Fellowships for **MECTS** (Romanian Ministry of Education, Research, Youth and Sport (2006-2010)
8. **Prizes**. Awards by **UEFISCDI** (2013 -1, 2014 – 2 2015-3, 2016 -3, 2017-3 – publication of ISI papers).
9. **Conference organization**

|      |   |
|------|---|
| 2005 | Main organizer: International Conference – AUF Teledetection, Bucharest   |
| 2011 | Main organizer: International Conference – Environment – Landscape – European Identity, Bucharest , Procedia Environmental Sciences, <b>Elsevier</b> Volume: 14 Pages: 98-110 DOI: 10.1016/j.proenv.2012.03.010 Publicat: 2012, <a href="http://www.sciencedirect.com/science/journal/18780296">http://www.sciencedirect.com/science/journal/18780296</a> <a href="http://geo.portiledefier.ro">http://geo.portiledefier.ro</a> |
| 2013 | Main organizer: International workshop: The first meeting of IALE Romania, <i>Landscape Ecology - linking Nature and Human Dimensions.</i> , 1,2 November Bucharest <a href="http://landscape.cc.unibuc.ro/iale/news.php">http://landscape.cc.unibuc.ro/iale/news.php</a>   |
| 2015 | Main organizer: International workshop: The first meeting of IALE Romania, <i>Landscape Ecology Days</i> , 4-8 September, Bucharest   |
| 2017 | Main organizer: International workshop : 3D Landscapes. Metrics, techniques and applications., IALE 2017 European Congress, Ghent 12-15 september 2017 <a href="http://www.iale-europe.eu/iale2017/3d-landscapes-metrics-techniques-and-applications">http://www.iale-europe.eu/iale2017/3d-landscapes-metrics-techniques-and-applications</a>  |

## Personal skills

**Languages:** Romanian – mother tongue; English, French

**Computer skills:** user of common operating systems (Windows, MacOS) and software packages: ArcGIS, R.

