



## Europass Curriculum Vitae



### Personal information

First name(s) / Surname(s) **Iuliana Armas**

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Web page [www.geodinamic.unibuc.ro](http://www.geodinamic.unibuc.ro); 0000-0002-8020-6767 B-6772-2011 U-1700-034Y-7136//[iarmas.academia.edu](http://iarmas.academia.edu), <https://www.mendeley.com/profiles/iuliana-arma3/>

Nationality Romanian

### Occupational field

**Physical Geography, Natural (Multi)Hazards and Risks, Vulnerability, Fluvial Geomorphology, Landslides, Risk Perception and Disaster Preparedness Behavior**

### Work experience

Dates 2004 to present day

Occupation or position held **Univ. Professor**

Main activities and responsibilities **Teaching and research** activities in Physical Geography, Applied Geomorphology, Assessing Natural Hazards and Risks, Dynamic Vulnerability, Risk perception and human behavior in disasters; Entitled to co-ordinate Geography PhD students from the University of Bucharest (Ordin M.E.C. nr. 4697/14.08.2009).  
Director of the Simion Mehedinti Doctoral School since 2017  
Coordinator of the Disaster Management Master, the first program of its kind in Romania <http://geo.unibuc.ro/dm/English.html>  
Head of the research center for Risk Studies (CRMD) at the University of Bucharest  
**Editorial activities:** member of the editorial board of **Humanities and Social Sciences Communications** (Nature Portfolio), Q1; Anale de Geografie - Universitatea Spiru Haret, Riscuri si Catastrofe, Geo Review; Forum Geografic, Chair of GeoPatterns—the journal of the Center for Risk Studies, Department of Geomorphology, Faculty of Geography, University of Bucharest  
Peer reviewer for ISI-high impact Journals: Scientific Reports, Natural Hazards, Mountain Research and Development (MRD), Earth Science Informatics, Risk Analysis, Earth Science Informatics, Journal of rational-emotive-cognitive-behavior therapy, Remote Sensing, Journal of Environmental Planning and Management, International Journal of Disaster Risk Reduction, Journal of Mountain Science.  
**Member of Professional Societies:** AGR-Romanian Association of Geomorphology; Romanian Geographic Society (during 2000-2004 I was member in the Geographical Society Bureau, Bucharest Filial); „Arbeitsgruppe für Naturgefahren“, Germany; EGU, SRA – Society of Risk Analysis  
-1996-2000: vice-president in the *Cartography and Children Working Group* - CCWG

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|----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Name and address of employer                                   | Bucharest University, Faculty of Geography, Bd. Balcescu 1, sector 1, 010041, Bucharest, Romania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Type of business or sector                                     | Education and reserach                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Education and training</b>                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Dates                                                          | 1995                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Title of qualification awarded                                 | <b>PhD in Geography</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Name and type of organisation providing education and training | Bucharest University, Faculty of Geography, Bucharest, Romania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Level in national or international classification              | ISCED 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Dates                                                          | 1990 – 1995 PhD Student (full time)<br>Awarded: Studentship, Koln, Germany (12 months)<br>related work:<br>- supervising two diploma works of students<br>- seminars and practical work in <i>Theoretical Geography Physical Geography, Geomorphology, Plains of Romania</i><br>- chairing and convening scientific meetings.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Title of qualification awarded                                 | 1986 – 1990 <b>BSc. in Geography and German Language</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Principal subjects/occupational skills covered                 | Geology, Physical Geography, Geomorphology, Cartography, Climatology, Hydrology, Pedology, Biogeography, Human Geography<br>-Knowledge and understanding of geographical phenomena,<br>-first place at admission exam<br>- study scholarships<br>- student leader, responsible for the organization of student conferences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Name and type of organisation providing education and training | University of Bucharest, Faculty of Geography, Bucharest, Romania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Level in national or international classification              | ISCED 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Dates                                                          | 2004-2008                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Title of qualification awarded                                 | <b>BSc. in Psychology</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Principal subjects/occupational skills covered                 | Child Development, Cognitive Science, Social Psychology, Neuroscience, Statistics, Clinical Psychology, Social/Personality Psychology; Pedagogy and methods of teaching                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Name and type of organisation providing education and training | University of Bucharest, Faculty of Psychology, Panduri 90, Sector 5, Bucharest, Romania                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Level in national or international classification              | ISCED 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Training</b>                                                | 19931994: Germany, Institute of Geography, Institute of Geology, University of Köln - Geology and Fluvial Geomorphology courses and seminars, under the supervision of Prof.Dr.Hab. E. Brunotte<br>2006: Bonn, Germany - FORM-OSE Post-Graduate Training School: MultiRISK, Concepts to approach multiple hazards and risks<br>2008: ESRI-GIS Romania - ArcGIS Desktop I + II<br>2008: International Institute for Geo-Information Science and Earth Observation, Enschede, The Netherlands - Applied Earth Sciences Course: <i>Principles and Applications of Remote Sensing and GIS in Applied Earth Sciences</i><br>2009: International Institute for Geo-Information Science and Earth Observation, Enschede, The Netherlands - Applied Earth Sciences Course: <i>Multihazard and Risk Assessment</i><br>2009: University of Agronomy and Veterinary Medicine, Bucharest, Romania - ROSA/ESA/DLR: <i>Radar Remote Sensing Course</i><br>2012: Romsym Consulting Training Center – SPSS Modeler; Advanced SPSS Statistics and Neural Network<br>2016: University of Trento, Dep of Civil, Environmental and Mechanical Engineering, Trento, Italia - Spatial multicriteria analysis for environmental decision-making. |

## Personal skills and competences

Mother tongue(s)

**Romanian**

Other language(s)

Self-assessment

European level (\*)

**German**

**English**

**Greek**

| Understanding |  |         |  | Speaking           |  |                   |  | Writing |
|---------------|--|---------|--|--------------------|--|-------------------|--|---------|
| Listening     |  | Reading |  | Spoken interaction |  | Spoken production |  |         |
| C2            |  | C2      |  | C2                 |  | C2                |  | C1      |
| C1            |  | C2      |  | C1                 |  | B2                |  | B2      |
| A2            |  | A1      |  | A2                 |  | A2                |  | A1      |

(\*) [Common European Framework of Reference for Languages](#)

## Areas of competence

Theoretical Geography; Fluvial Geomorphology and evolution of geomorphological landscapes; Dynamic geomorphology and Quantitative Modeling (thematic mapping, morphological levels, morphological regional models, quantitative geomorphology and morphometric modeling); Vulnerability, Risk and Natural Hazard; Risk perception and preparedness behavior, intention-behavioral gap

## Additional information

- Director of the Center for Risk Studies, Department of Geomorphology, Faculty of Geography, University of Bucharest [www.geodinamic.unibuc.ro](http://www.geodinamic.unibuc.ro)
- Right to drive doctorate in Geography at Bucharest University
- Has authored or coauthored over 45 scientific articles published in ISI indexed journals, 1 book edited in Springer Verlag; 7 collaborations in book chapters published in Springer Verlag, 14 books and 5 school books; 5 book chapters published by Romanian publishers; over 200 scientific communications in Romania and abroad, being invited as a key speaker in several international meetings and conferences (European Conference on Risk Perception, International Symposium for Geo-disaster Reduction, EGU).
- Main scientific organizer and chairperson of several national scientific meetings.
- PI for 13 National and international research projects; being member of interdisciplinary teams in other 9 research projects among which 2 are international.
- MC member of five COST actions
- Invited as a subject matter expert in CapHaz-Net - FP7 Contract No. 227073 EU Project, [www.caphaz-net.org/outcomes-results](http://www.caphaz-net.org/outcomes-results), in the Advisory Board of PROACTIVE project ([www.proactive-h2020.eu](http://www.proactive-h2020.eu)) and the scientific board of the research project "Contested Waterway. Governance and Ecology on the Lower Danube, 1800–2018", funded from the Leibniz-Organization.
- She serves as technical proposal reviewer for UEFISCDI
- Member CNATDCU (2016-2020; 2020-2024)

## Awards

- Award at the student scientific contest, 1987
- Award of University of Bucharest for the years 2005, 2006, 2007.
- Excellence Awards for published articles in 2018, 2019, 2020, 2022, 2023 (UEFISCDI PNCDI III - Program 1 - Subprogram 1.1)
- 2% Stanford top cited scientists for 2022 and the entire career

## Social skills and competences

Hard working, team spirit, perseverant, quickly adapting to new working environments, easily finding place in team works and shared projects, having the capacity to cope with high-stress situations.

## Organisational skills and competences

Good experience of project management, communication skills and team motivation, advanced experience in scientific analysis

## Technical skills and competences

Ability to analyze problems in a multi-disciplinary approach and to adapt to new fields of knowledge

|                                 |                                                                                                                                                                |
|---------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Computer skills and competences | good knowledge of productivity software; advanced experience in quantitative statistical data analysis, good command of photo editing and cartography software |
| Driving licence                 | B category, since 1988                                                                                                                                         |

## Papers (selection)

- Albulescu, A. C., & **Armaş, I.** (2024). An Impact Chain-based exploration of multi-hazard vulnerability dynamics. The multi-hazard of floods and the COVID-19 pandemic in Romania. *Natural Hazards and Earth System Sciences*, 2024, 1-51. <https://doi.org/10.5194/nhess-24-2895-2024> equal contributions
- Armaş, I.**, Fekete Al., Dobre D., Albulescu C., Samuel. R. (2025). Hinging on the preparedness of first responders. A case study on the 2021 flood operations in Romania. *International Journal of Disaster Risk Reduction* **116** <https://doi.org/10.1016/j.ijdr.2024.105008>
- Armaş, I.**, Albulescu C. (2025). From static to dynamic: Conceptual and operational developments of vulnerability, *iScience*, 28(3) <https://doi.org/10.1016/j.isci.2025.112070>
- Armaş, I.**, Albulescu C., Dobre D. (2025) Towards managing vulnerability. A new model of systemic vulnerability, *International Journal of Disaster Risk Reduction*, 121, <https://doi.org/10.1016/j.ijdr.2025.105378>
- Armaş, I.**; Mihaela Gh.; Silvaş, G.C. (2021). Shallow Landslides Physically Based Susceptibility Assessment Improvement Using InSAR. Case Study: Carpathian and Subcarpathian Prahova Valley, Romania. *Remote Sensing*, 13, 12: 2385. <https://doi.org/10.3390/rs13122385>
- Dobre, D., **Armaş, I.** & Albulescu, AC. (2025). Examining the Risk Perception-Disaster Preparedness Behavior Nexus in the Seismic Context of Bucharest. *Int J Disaster Risk Sci* **16**, 724–741 (. <https://doi.org/10.1007/s13753-025-00651-4>
- Gheorghe, M., **Armaş, I.**, Dumitru, P., Călin, A., Bădescu, O., & Necsoiu, M. (2020). Monitoring subway construction using Sentinel-1 data: a case study in Bucharest, Romania. *International Journal of Remote Sensing*, 41(7), 2644-2663. DOI:[10.1080/01431161.2019.1694723](https://doi.org/10.1080/01431161.2019.1694723)
- Iacob C., **Armas I.**, Ionescu D., Avram. E. (2024). Mental health and COVID-19: The moderating role of neuroticism and conscientiousness *European Review of Applied Psychology*. (equal contributions)
- Ionescu, D., Iacob, C.I., Avram, E., **Armas, I.** (2021). Emotional distress related to hazards and earthquake risk perception. *Natural Hazards*. 1-18. [doi:10.1007/s11069-021-04911-6](https://doi.org/10.1007/s11069-021-04911-6), [2.427](https://doi.org/10.1007/s11069-021-04911-6)
- Manea V., **Armas I.**, Manea M., Gheorghe M. (2021). InSAR surface deformation and numeric modeling unravel an active salt diapir in southern Romania, *Scientific Reports*, 11, 12091 (2021). <https://doi.org/10.1038/s41598-021-91517-4> (equal contributions)
- Rufat, S., Fekete, A., **Armaş, I.**, Hartmann, T., Kuhlicke, C., Prior, T., Thaler, T., Wisner, B. (2020). Swimming alone? Why linking flood risk perception and behaviour requires more than “it’s the individual, stupid”. *Water*, 7(5) e1462, <https://doi.org/10.1002/wat2.1462>
- Rufat, S., de Brito. M. M., Fekete, A., Comby, E., Robinson, P. J., **Armaş, I.**, Botzen, W. J. W., Kuhlicke, C. (2022). Surveying the Surveyors to Address Risk Perception and Adaptive Behaviour Cross-study Comparability. *Natural Hazards and Earth System Sciences*, 22, 2655–2672, <https://doi.org/10.5194/nhess-2021-365>
- Savu, C., **Armaş, I.**, Burcea, M., Dobre, D. (2023). Behind The Scenes Of The Healthcare Covid-19 Pandemic Crisis: Potential Affecting Factors Of Healthcare Work Sustainability In Romania During 2020-2022; *Frontiers in Psychiatry*, section Public Mental Health,14. <https://www.frontiersin.org/articles/10.3389/fpsy.2023.1179803/full> (equal contributions)
- Toma-Danila D., **Armas I.**, Tiganescu A. (2020). Network-risk: an open GIS toolbox for estimating the implications of transportation network damage due to natural hazards, tested for Bucharest, Romania. *Natural Hazards and Earth System Sciences*, 20(5), 1421–1439. <https://doi.org/10.5194/nhess-20-1421-2020> <https://www.nat-hazards-earth-syst-sci.net/20/1421/2020/>
- Toma-Danila, D., Tiganescu, A., D'Ayala, D., **Armas, I.**, Sun, L. (2022). Time-Dependent Framework for Analyzing Emergency Intervention Travel Times and Risk Implications due to Earthquakes. Bucharest Case Study. *Frontiers in Earth Science*, 10:834052, [doi: 10.3389/feart.2022.834052](https://doi.org/10.3389/feart.2022.834052)

## ISI-Indexed Book chapters

- Armas I.**, Radulian M. (2014) Spatial multi-criteria risk assessment for earthquake hazards in Bucharest, Romania, in Bostenaru Dan M., **Armaş I.**, Goretti A., Eds., "*Earthquake hazard impact and urban planning*", Springer, ISBN: 978-94-007-7981-5, DOI: 10.1007/978-94-007-7981-5, <http://www.springer.com/gp/book/9789400779808>

- Armas I.**, Osaci G., Brasoveanu L., 2014, *Forest landscape history using diachronic cartography and GIS. Case Study: Subcarpathian Prahova Valley, Romania*, in Craciun C. si Bostenaru M., ed, *Planning and designing sustainable and resilient landscapes*, Springer Geography, ISBN 978-94-017-8535-8 [http://link.springer.com/chapter/10.1007%2F978-94-017-8536-5\\_1](http://link.springer.com/chapter/10.1007%2F978-94-017-8536-5_1)
- Bostenaru Dan M., **Armaş I.**, Goretti A., *Earthquake Hazard Impact and Urban Planning—An Introduction*, in Bostenaru Dan M., **Armaş I.**, Goretti A., Eds., *"Earthquake hazard impact and urban planning"*, Springer, ISBN: 978-94-007-7981-5, DOI: 10.1007/978-94-007-7981-5, <http://www.springer.com/gp/book/9789400779808>
- Bostenaru Dan M., **Armaş I.**, Petrisor Al. I., Cerqua Al., Gociman C.O, Goretti A., *Earthquake Hazard Impact and Urban Planning—Conclusion and Recommendations for Further Work*, in Bostenaru Dan M., **Armaş I.**, Goretti A., Eds., *"Earthquake hazard impact and urban planning"*, Springer, ISBN: 978-94-007-7981-5, DOI: 10.1007/978-94-007-7981-5,
- Gogoase Nistoran D., Gheorghe Popovici D., Craia Savin B. A., **Armaş I.** (2016), *GIS for Dam-Break Flooding. Study Area: Bicaz-Izvorul Muntelui (Romania)*, in Maria Boştenaru Dan and Cerasella Crăciun (Eds): *Space and Time Visualisation*, ISBN 978-3-319-24940-7; DOI 10.1007/978-3-319-24942-1; <http://www.springer.com/de/book/9783319249407>.
- Greco FI, Zaharia L., Ioana-Toroimac G.-I., **Armaş I.** (2016), *Floods and flash-floods related to river channel dynamics*, In Radoane, M., Vespremeanu-Stroe, A. (Eds.), *Landform Dynamics and Evolution in Romania*, Springer Geography, ISBN 978-3-319-32589-7.
- Osaci G., **Armaş I.** (2016), *Lost Landscapes: In Search of Cartographic Evidence* in Maria Boştenaru Dan and Cerasella Crăciun (Eds): *Space and Time Visualisation*, Springer Geography, pp 35-62. ISBN 978-3-319-24940-7; DOI 10.1007/978-3-319-24942-1; <http://www.springer.com/de/book/9783319249407>

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