



Curriculum vitae

PERSONAL INFORMATION

Surname, First name

IOAN AUREL IRIMUŞ

Position

PhD Professor, Director of the Doctoral School of Geography

Address

5 -7, Clinicilor Street

Telephone

0264-592214, int. 217

Mobile phone: 0724- 58 37 56

E-mail

aurel.irimus@ubbcluj.ro

Area of expertise

Physical geography (Geomorphology, Geomorphological mapping, Natural hazards)

Provided courses

- Physical geography of Romania, Geomorphology, Geomorphological Mapping, General physical geography, Anthropogenic and technogenic risks, Geoecology, Structure and dynamics of the landscape, Tourist potential of the relief and its capitalization (Bachelor's level), Morphodynamics of the Romanian territory (advanced training course / Doctoral school of Geography) / Babeş-Bolyai University of Cluj-Napoca
- Integrated physical geography / Applied geomorphology / Environmental geomorphology / Faculty of Civil Engineering / Faculty of Architecture / Technical University of Cluj-Napoca

WORK EXPERIENCE

From - To	September 2012 - October 2021
Position held	PhD Professor / Director of the Doctoral School of Geography / PhD supervisor / Babes-Bolyai University / Coordinator of the Teacher Training activity, Geography specialty, DPPD Cluj Napoca
Employer	Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca
From - To	December 2007 – September 2012
Position held	PhD Professor / Vice Dean, Faculty of Geography, Babeş-Bolyai University / Director of the Zalău University Extension / PhD supervisor / Coordinator of the Teacher Training activity, Geography specialty, DPPD Cluj Napoca
Employer	Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca
From - To	September 2006 – September 2011
Position held	PhD Professor / Vice Dean, Faculty of Geography, Babeş-Bolyai University / Director of the Zalău University Extension / Associate Professor, Faculty of Civil Engineering / Faculty of Architecture / Cluj-Napoca Technical University / PhD supervisor / Coordinator of the Teaching Staff Training activity, Geography specialty, DPPD Cluj Napoca
Employer	Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca
From - To	September 2006 – December 2007
Position held	PhD Professor / Director of the Zalău University Extension / PhD supervisor / Babeş-Bolyai University, Coordinator of the Teacher Training activity, Geography specialty, DPPD Cluj Napoca
Employer	Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca
From - To	September 1998 – September 2006

Position held	Associate Professor, PhD/ Director of the Zalău University Extension (2002-2006)/ Coordinator of the Teacher Training activity, Geography specialty, DPPD Cluj Napoca
Employer	Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca
From - To	September 1998 – September 2002
Position held	Associate Professor, PhD / Dean / Faculty of Geography - History, "Dimitrie Cantemir" Ecological University, Tg. Mures
Employer	Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca & "Dimitrie Cantemir" Ecological University, Tg. Mures
From - To	September 1993 – September 1998
Position held	Lecturer, PhD candidate/ Faculty of Geography - History, "Dimitrie Cantemir" Ecological University, Tg. Mures
Employer	Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca & Faculty of Geography - History, "Dimitrie Cantemir" Ecological University, Tg. Mures
From - To	September 1992 – September 1998
Position held	Lecturer, PhD candidate / Faculty of Biology, Geography and Geology / Department of Geography
Employer	Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca
From - To	October 1990 – September 1992
Position held	Teaching assistant, PhD candidate / Faculty of Biology, Geography and Geology / Department of Geography
Employer	Babeş-Bolyai University, 1 Mihail Kogălniceanu Str., Cluj-Napoca
From - To	September 1986 – September 1990
Position held	Tenure teacher / II Degree/ Deputy Headmaster (1984 -1988), High School of Mathematics - Physics, Hunedoara
Employer	County School Inspectorate Hunedoara
From - To	September 1983 – September 1986
Position held	Tenure teacher/ Deputy Headmaster (1984 -1988), High School of Mathematics - Physics, Hunedoara
Employer	County School Inspectorate Hunedoara

EDUCATION AND TRAINING

From - To	2010 – to date
Qualification awarded	Quality Auditor / Graduation Certificate Series F nr.0057123 / 2010
Principal subjects covered/ skills acquired	Ensuring the quality of university study programs by training human resources and labor market orientation
Training organisation's name	Ministry of Labor, Family and Equal Opportunities / Ministry of Education and Research / Babeş-Bolyai University of Cluj-Napoca
From - To	2001 – to date
Qualification awarded	Certificate of Expert Evaluator, nr.1128/2001
Principal subjects covered/ skills acquired	Physical Geography (Geomorphology, Geomorphological Mapping, Natural Risks and Hazards)

Training organisation's name	Ministry of Education and Research / National Council for Scientific Research in Higher Education																												
From - To	1992-1993																												
Qualification awarded	GIS Competence Assessment Certificate																												
Principal subjects covered/ skills acquired	Geography / GIS analysis / thematic digital maps / infographics																												
Training organisation's name	L' Institute de Géographie de Rouen /Lab. Modélisation et Traitement Graphique et Infographique en Géographie/ Rouen/ coord. PhD Prof. Yves Guermond																												
From - To	1990-1998																												
Qualification awarded	PhD in Physical Geography																												
Principal subjects covered/ skills acquired	Disciplines belonging to the field of Physical Geography / competencies specific to the research of the relief inscribed to the Neogene molasses basins, the relief on domes and diapir folds, hazards and risks associated with these structures																												
Training organisation's name	Babeş-Bolyai University of Cluj-Napoca																												
Level in national or international classification	CISE 6																												
From - To	1979-1983																												
Qualification awarded	Bachelor's degree in geography / Specialization: Geography-French Language and Literature																												
Principal subjects covered/ skills acquired	Disciplines belonging to the field of Geography / competencies specific to graduates in the field & disciplines belonging to the field Letters / competencies specific to graduates in the field																												
Training organisation's name	Babeş-Bolyai University of Cluj-Napoca																												
Level in national or international classification	CISE 5																												
Mother tongue	Romanian																												
Other language(s)																													
Self-assessment	<table border="1"> <thead> <tr> <th colspan="2">Comprehension</th> <th colspan="2">Speech</th> <th>Writing</th> </tr> <tr> <th>Listening</th> <th>Reading</th> <th>Conversation Participation</th> <th>Oral speech</th> <th>Written expression</th> </tr> </thead> <tbody> <tr> <td>C2</td> <td>C2</td> <td>C2</td> <td>C2</td> <td>C2</td> </tr> <tr> <td>A1</td> <td>A1</td> <td>A1</td> <td>A1</td> <td>A1</td> </tr> <tr> <td>A2</td> <td>A2</td> <td>A2</td> <td>A2</td> <td>A1</td> </tr> </tbody> </table>				Comprehension		Speech		Writing	Listening	Reading	Conversation Participation	Oral speech	Written expression	C2	C2	C2	C2	C2	A1	A1	A1	A1	A1	A2	A2	A2	A2	A1
Comprehension		Speech		Writing																									
Listening	Reading	Conversation Participation	Oral speech	Written expression																									
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A2	A2	A2	A2	A1																									
	(*) Level of the Common European Framework of Reference for Languages																												
Member of professional associations	<ul style="list-style-type: none"> • (1983) - member of the Geography Society of Romania • (1990) - member of the "Association of Geomorphologists in Romania" (A.G.R) • 1997, member of the International Association of Geomorphologists (I.A.G.) • 2003 - 2013, vice-president of the Romanian Geography Society, Cluj branch • 2006 - 2010, member of the Executive Committee of the AGR (Chairman of the Risk and Hazard Commission) • 2013 – to date, president of the Alma Mater Napocensis Geography Society • 2013 – 2017, vice-president of the Romanian Geography Society 																												

Member of editorial boards	<ul style="list-style-type: none"> • Studia UBB Magazine - Geographia Series, rated B + / BDI • Journal of Geomorphology, rated B +; / BDI / Editorial Team • Annals of the University of Bucharest B + / BDI • Natural Hazards & Earth System Sciences (Journal of the European Geosciences Union) /Egu/Copernicus (Web of Sciences) /ISI • Annals of the University of Oradea, Geography Series (B +) • Annals of the “Alexandru I. Cuza” University, Iasi (B+) • Risk and Catastrophe Magazine (BDI, Copernicus).
Scientific activity	Total number: books (7), book chapters (16), published courses (4); 28 articles (ISI and ISI proceedings); 90 articles (BDI), 75 articles published in volumes of international conferences (indexed BDI, ISI) and 27 articles in Romanian journals (recognized by CNCSIS).
Social skills	Working in research teams - coordinator of research projects and programs, communication skills, co-author of numerous articles
Organisational skills	Management activities of the education institutions: Deputy Headmaster , High School of Mathematics - Physics (now National College “Iancu de Hunedoara”) (1984-1988) Dean , Faculty of Geography-History, Tg.Mureş (1998-2002) Director of the Zalău University Extension / Faculty of Geography of UBB (2002- 2012) Vice Dean , Faculty of Geography of UBB (2008-2012) Director of the Doctoral School of Geography / Babeş-Bolyai University of Cluj-Napoca (2012 – 2021) Responsible for improving Geography within DPPD / Babeş-Bolyai University of Cluj-Napoca (2002-2021)
Technical skills	Evaluation of geomorphological processes, hazards and natural risks, evaluation of geomorphosites
Computer skills	Computer skills in various programs: Word, Excel, Power-Point, Corel.
Artistic skills	Violin, acoustic guitar
Other skills	Consultancy and expertise in the fields: physical geography (geomorphology, geomorphic risks) quality assurance in higher education
Driving licence	Driving license category B, since 1997
ADDITIONAL INFORMATION	<ul style="list-style-type: none"> • <i>R.U.R Prize for the work “Planning of peri-urban territories. Case study: peri-urban area Bistrița”. Coordinator: PhD Prof. P.Coccean, 2007.</i> • Babeş-Bolyai University Award for the Romanian Spatial Planning - Northwest Region. Major coordinates, 2004.
Honours and awards	<ul style="list-style-type: none"> • Babeş-Bolyai University Award for University Management, for contributions to the development of Cluj university education, 2007. • Comenius Award of Babeş-Bolyai University, for contributions to the development of Cluj university education, 2008. • Babeş-Bolyai University Professor of the Year Award, for contributions to the development of Cluj university education, 2009. • Babeş-Bolyai University Professor of the Year Award, for contributions to the development of Cluj university education, 2010. • Babeş-Bolyai University Representativeness Award, for contributions to the development of Cluj university education, 2011. • Honorary citizen of LOZNA Commune (Sălaj County), for contributions to the development and promotion of the rural community (2011.07.31 / Lozna City Hall, Local Council of Lozna Commune). • Honorary citizen of ZALĂU Municipality (Sălaj County), for contributions to the development of higher education in the Sălaj area (2013.07.27 / Zalău City Hall, Zalău Local Council).

Visiting Professor

- TA / Erasmus mobility: 24 - 29 September 2017, Universite d'Orleans (France) - conferences and field applications: 1. The role of weathering processes in the degradation of historical monuments and geomorphosites from Transylvania Depression. 2. The role of geological and geomorphological mapping in identifying the vulnerability of the slopes at geomorphological processes in Transylvania Depression
- Visiting Professor University of Modena and Reggio Emilia, DEPARTMENT OF CHEMICAL AND GEOLOGICAL SCIENCES, 23.05.2016 - 27.05.2016, conference: The role of weathering processes in the degradation of historical monuments and geomorphosites from Transylvania Depression.
- Visiting Professor at the University of Bari "Aldo Moro", Department of Earth and Geoenvironmental Sciences, Doctoral School in Earth Sciences and Environmental Dynamics, 13-19 May 2013, conferences and field applications (Conference: Interaction between climate and tectonics in the geomorphological evolution of the Transylvanian Basin)
- TA / Erasmus mobility: 3 - 8 May 2011- conferences and field applications (The Tectonics and Morphology of the Transylvanian Depression, Applied Geomorphology).
- Visiting Professor for the Collaboration Agreement of the Doctoral School from the Faculty of Geography, Babes-Bolyai University from Cluj-Napoca, with the Doctoral School from the Faculty of Earth Sciences, "Aldo Moro" University of Bari / 2010.
- Visiting Professor for the Collaboration Agreement of the Doctoral School of the Faculty of Geography, Babes-Bolyai University of Cluj-Napoca, with the Department of Geoarchaeology of the Sorbonne IV University, Paris (Prof. Phd Eric Fouache) / 2010.
- Associate Professor at Trakya University in Edirne (Turkey) on the occasion of the "Balkan University Network Meeting- Balkan Spring Educational Conference", May 7- 8, 2010.
- Associate Professor at Bogazici University and Sabanci University in Istanbul, May 9-12, 2010.
- Visiting Professor at the Higher Institute of Tourism and Hotels, Cairo, Ra's Sudr (Pen.Sinai), Egypt, April 6-16 2010.
- Visiting Professor at the University of Modena, Italy, September 9-17, 2009, on the occasion „III Convegno Nazionale AIGeo – Il ruolo della geomorfologia nella gestione del territorio”.
- Expert evaluator delegated to the University of Freiburg, the Albert-Ludwig Institute (Germany) and the University of Uppsala (Sweden) in the POSDRU program /18/1.2/G/.

Publications

1. Mărgărit-Mircea Nistor, Alexandru-Sabin Nicula, Ioan Surdu, Titus Cristian Man, Nikhil Nedumpallile Vasu, Iulius-Andrei Carebia, **Ioan A Irimuş**, Shankar Acharya Kamarajuggedda (2021), *Climate and Land Use Impacts on Natural and Artificial Systems*. Chapter 13 - *Groundwater vulnerability assessment in the Iberian Peninsula under climate and land cover changes*, <https://doi.org/10.1016/B978-0-12-822184-6.00017-X>. Pages:225-250, **Elsevier**.
2. Strapazan Carina, Haidu Ionel, **Irimuş Ioan-Aurel** (2021), *A comparative assessment of different loss methods available Mike Hydro River – UHM*. Carpathian Journal of Earth and Environmental Sciences, February 2021, Vol. 16, No. 1, p. 261 – 273; DOI:10.26471/cjees/2021/016/172
3. Pop, O. Tr., Germain, D., Mesesan, Fl., Gavrilă, I.G., Alexe, M., Buzila, L., Holobăca, I., **Ioan-Aurel Irimuş** (2019), *Dendrogeomorphological assesment and sediment transfer of natural vs.mining-induced debris-flow activity in Calimani Mountains, Eastern Carpathians, Romania*. Rev. GEOMORPHOLOGY, Volume: 327 Pages: 188 - 200, DOI: 10.1016 / j.geomorph.2018.10.028, Published: FEB 15 2019, Accession Number: WOS: 000456491600013.
4. Nistor, M M., Nicula, AS., Cervi, F., Man, TC., **Irimus, IA.**, Surdu, I (2018), *Groundwater vulnerability GIS Models in the Carpathian Mountains under Climate and Land Cover Changes*. Applied Ecology and Environmental Research, Vol.16, Issue 4, p.5095-5116. Doi: <http://dx.doi.org/10.15666/aer.Fi=0,721>.
5. **Irimus, Ioan-Aurel**; Rosca, Sanda; Rus, Madalina-Ioana; Marian, Flavia Luana; Bilasco, Stefan (2017), *Landslide susceptibility assessment in Almas basin by Means of the Frecquency Rate and GIS Techniques*.Geographia Technica, Vol.12, Issue 2, pp.97-109/2017. Doi: 1021163/GT_2017.122.09. Accession Number: WOS:000419795100009
6. Mărgărit-Mircea Nistor, Sorin Cheval, Alessandro F. Gualtieri, Alexandru Dumitrescu, Vanessa E. Boţan, Alex Berni, Gh. Hognogi, **Ioan A. IRIMUS** and Cosmin G. Porumb (2017), *Crop evapotranspiration assessment under climate change in the Pannonian basin during 1991–2050*. METEOROLOGICAL APPLICATIONS, Volume: 24 Issue: 1 Pages: 84-91DOI: 10. 1002/ met. 1607. Published: JAN 2017 Accession Number: WOS:000393217100009. Impact Factor: 1.273.
7. Flavia-Luana, Marian, **IRIMUŞ, IA** Zaharia,C.S (2016), *Qualitative landslide risk estimation in the Baia Mare depression,Romania*.Carpathian Journal of Earth and Environmental Sciences, February, vol.11,no.1,p.123-130. Accession Number: WOS: 000370208300011.
8. **IRIMUŞ, I.-A**, Bálint-Bálint, L., Dombay, St., Crişan, H.F., Magyari-Saska, Zs. (2015), *Classification and Evaluation Criteria for Volcanic Geomorphosites in Harghita Mountains*. SCIENCE AND TECHNOLOGIES IN GEOLOGY, EXPLORATION AND MINING,VOL I, Book Series:International Multidisciplinary Scientific GeoConference-SGEM Pages:77-84; Published: 2015; Accession Number: WOS:000371662300010.
9. Ilieş, Monica, **IRIMUŞ, IA**, Buzilă, L, Ciobanu, T., (2015), *Weathering Processes and Their Effects on Sandstone as Building Material. Case Study: The Stone-Built Foundation of The Holy Archangels Church in Deag Village, Transylvania*. SGEM: ECOLOGY, ECONOMICS, EDUCATION AND LEGISLATION, VOL.II, Book Series Title : International Multidisciplinary Scientific GeoConference - SGEM Pages: 537-542, Published: 2015. Accession Number: WOS:000370814500071 .
10. **IRIMUŞ, I.A.**, Mădălina-Ioana Rus , Cioban, T.D., Bilaşco, St.(2015), *Quantitative Estimation of Annual Average Rate of Soil Erosion in the Almas Hydrographical Basin, Using USLE and GIS*.15th International Multidisciplinary Scientific GeoConference on Informatics, Geoinformatics and Remote Sensing, Conference Proceedings/Vol.II, Geodesy & Mine Surveying, Cartography & GIS.,p.1071-1079. ISSN 1314-2704/ ISBN 978-619-7105-35-3 /DOI :10.5593/ sgem 2015B22.
11. **IRIMUŞ, IA**, Toma, Bianca, Petrea ,D., Ciobanu, T., Togănel, C.(2014), *Vulnerability of diapiric regions under the impact of anthropic activities. Case studies in Zakarpattia (UA) and the Transylvania Depression (RO)*.Vol.SGEM „Ecology, Economics, Education and Legislation”, Conference Proceedings ISI/Vol.II Ecology & Environmental Protection, p.819-831. ISSN 1314-2704/ ISBN 978-619-7105-18-6/ DOI: 10.5593/ sgem 2014B52.
12. **IRIMUŞ, I.A.**,Flavia Marian, Zaharia,S.(2014),*Interpreting Results of a GIS-based Landslide Susceptibility Assessment using Geotechnical Investigations for a Road Sector in North-Western Romania*. Vol.SGEM „Informatics, Geoinformatics and Remote Sensing”, Conference Proceedings ISI/Vol.III Photogrammetry and Remote Sensing/ Cartography & GIS , p.691-699. ISSN 1314-2704/ ISBN 978-619-7105-12-4 /DOI :10.5593/ sgem 2014B23.
13. **IRIMUS, IA**, Petrea, D., Surdeanu,V., Fodorean, Fl., Pop, O.(2009),*La Reconstruction des Paleopaysages Transylvains a partir des Routes et des Castres romains de Dacia Porolissensis*.Vol. „Ol' Man River"- Geo-Archaeological Aspects of Rivers and Rivers Plains, ISBN 978-90-382-1404 -7, p.483- 497, Ghent, Ed.Academia Press, Belge.
- 14.**IRIMUŞ IA**. (2006), *Hazards and risks associated with geomorphological processes in the area of diapir folds in the Transylvanian Depression*. Casa Cărţii de Ştiinţă Publishing House, Cluj-Napoca, ISBN 973-686-850-8, p.287.
- Tudorancea C., **IRIMUŞ IA**. & colab. (2006), *Danube Delta. Genesis and Biodiversity. Cap.4, p.53-64*. Ed. Backhuys Publishers BV, ISBN 90-5782 -165- 6, p.440, PO Box 321, 2300 AH Leiden, The Netherlands.
15. **IRIMUŞ IA**(1998), *The relief on domes and diapir folds in the Transylvanian Depression*, Cluj University Press Publishing House, ISBN 973-9354-55-6, Cluj-Napoca, p.299.
16. **IRIMUŞ I. A.** (1997), *La corrélation des glissements de terrain avec les types de dômes périphériques dans le Basin de Transylvanie*, *Geografia Fisica e Dinamica Quaternaria*, vol. 19, p. 245-248, Italia, Torino.

Grants, research contracts

- Grant no. 1799 / 2003-2005, "Risks and hazards associated with geomorphological processes in the inhabited territories in the area of diapir folds - Transylvania Depression" (RON 103,500), Director.
- 1. POIM/178/4/1 – SMIS code 12445 / 2020-2021 - Increasing the degree of protection and conservation of biodiversity and restoration of degraded ecosystems (ROSCI 0314-Lozna; ROSPA 014-Mures middle course; ROSCI 0435-Somes between Rona and Ticau. Consulting expert.
- 2. PATJ-Sălaj,4-S1/5.11.2018- County Territory Development Plan - Sălaj. Responsible Subtheme: Geomorphic potential and associated geomorphic risks. Beneficiary: Sălaj County Council. Director: PhD Prof. Pompei Cocean.
- 3. PN-II-PT-PCCA 2011-3.1-0924, Seeing the Unseen.Landscape Archaeology on the Northern Frontier of the Roman Empire at Porolissum (Romania).Director: Oprean Coriolan Horatiu CP I, Romanian Academy. Membership.
- 4. CNCSIS Grant, type A, no. 1335 / 2006-2009 with the topic "Potential territorial effects of the implementation of the <Transylvania> highway (Borș-Turda section) in the context of the sustainable development of the interaction corridor", declared eligible and financed for the year in course (55,000 RON) starting with April. Director: *PhD Prof.* Danut Petrea. Membership.
- 5. CNCSIS Grant, type A, code 234, 2004/07, "Study of the risks induced by the floods on the rivers from the north of the Transylvanian Depression", Director: PhD Prof V. Sorocovschi. Membership.
- 6. CNCSIS Grant, code 1075, 2002/03, with the topic "Integrated study of the dynamics of Quaternary geographical landscapes from the Transylvanian Depression based on the analysis of fossil and archaeological geostructures", Grant Director: Assoc. Prof. PhD Oncu Marcel. Membership
- 7. CNCSIS Grant, type A, code 3747, 2002/03, with the topic "Natural and anthropic hazards in inhabited areas in Cluj County", Grant Director: PhD Prof V. Surdeanu. Member.
- 8. CNCSIS Grant, type A, code 1752, 2003/05, with the topic "The impact of risk climate phenomena on communication routes and transport activities in the Transylvanian Depression in the perspective of sustainable development", Grant Director: Assoc. Prof. PhD Moldovan Florin. Member.
- 9. CNCSIS grant, type A, code 177, 2003/04 with the topic "Development of geomorphological research through the implementation of dendrochronology measurements", Grant director: PhD Prof. Surdeanu V.
- 10. Grant no. 114, Theme A15, with the topic "Protected areas in Cluj County" (beneficiary C.N.C.S.U./1996), Director: PhD Prof. N.Tomescu (Fac. Biology – Geology). Member.
- 11. Grant (1995-1999) no.479, Theme B50– „Spatial organization of the Transylvanian Depression" (beneficiary: C.N.C.S.U.), Grant director: PhD Prof. Mac Ioan. Member.
- 12. Grant no. 156 / 2000-2003, World Bank code - "Development of the program of Advanced Studies in Geography", phases - 2001, 2002, Director: PhD Prof. Sorocovschi. Member.
- 13. Contract no. 271/2006 - Tisa Basin, Phase 2007, Geomorphology of the Tisa morphohydrographic basin. Responsible for the sub-theme: The natural environment and the natural risks associated with geomorphological processes. Beneficiary: Ministry of Development, Public Works and Housing, Bucharest. Dir. PhD Prof. P. Cocean.
- 14. Contract no. 61 030 / 11.08.2006 - PATZ - Development Strategy of Craiova Municipality. Responsible for the sub-theme: The natural environment and the natural risks associated with geomorphological processes. Director: PhD Prof. Pompei Cocean.
- 15. 2005 - P.A.T.Z – Periurban Municipality of Bistrița. Contract no. 178 / 03.03.2005, in association with Bistrița County Council. Director: PhD Prof. Pompei Cocean. Responsible for the sub-theme: The natural environment and the natural risks associated with geomorphological processes; Prevention and protection against natural risks in order to efficiently manage material resources in the peri-urban area of Bistrița.
- 16. 2005 - Cluj County Development Plan. Sectoral studies - Environment, natural and anthropogenic risk areas. Contract PNCDnr.12 900 / 19.10.2005, beneficiary Cluj County Council. Contract director: PhD Prof. Surdeanu Virgil, 2005.
- 17. 2004 - Phare Contract RO - 0007 12.01.01.1241, "Strategy for economic and social development of the Tășnad micro-region. Topic: "Local resources - the engine of development". Responsible for the sub-theme: The natural environment and the natural risks associated with geomorphological processes Director: PhD Prof. Pompei Cocean.
- 18. P.A.T.I.J. no. 11136 / 2000-2003 - Beneficiary of the Cluj County Council - Arieș Basin. Responsible for the sub-theme: The natural environment and the natural risks associated with geomorphological processes Director: PhD Prof. P. Cocean.
- 19. Contract P.A.T.I.J. no. 8992 / 1997-2002 - Inter-county contact area (beneficiary: County councils: Cluj, Bihor, Satu-Mare, Maramureș, Mureș, Bistrița Năsăud, Sălaj). Responsible for the sub-theme: The natural environment and the natural risks associated with geomorphological processes Director: PhD Prof. Pompei Cocean.
- 20. Contract no. 716/1996) - Urban planning of the Turda area (beneficiary: Turda City Hall); Contract Director: PhD Prof. V. Surd. Member.
- 21. P.A.T.J. - Cluj County, no. 6349/1995 (beneficiary: Cluj County Prefecture, Commission for Territorial Planning and Urbanization). Director: PhD Prof. Mac Ioan. Member.
- 22. P.A.T.Z. - Apuseni Mountains (beneficiary: Cluj County Prefecture), no. 6348/1995. Director: Mac Ioan. Member.
- 23. Contract no. 33/2058 (1991-1995) beneficiary M.I.S. with the topic: "Geomorphological studies for assessing the optimal levels of mineralization in volcanic structures" (phases: 1991, 1992, 1993, 1994, 1995), Director: PhD Prof. Mac I.. Member.

POSDRU

1. POSDRU/18/1.2/G/5593 (2007-2013), Ensuring the quality of university study programs by training human resources and orientation towards the labor market. Director: PhD Prof. Andrei Mărcuș. Membership
2. POSDRU 32629 - *Vocational training of pre-university teachers for new career development opportunities. The quality of tutor. Project director: PhD Prof. A. Oprea.*
3. POSDRU / 87/1.3/S/57378 - *GeoSpace: Geomatics Center for the complementary training of pre-university teachers in the field of Geography. Quality of Expert in evaluating the quality of education. Project manager: PhD Prof. D.Petrea.*
4. POSDRU/5/1.5/S/12009-2011 - *Doctoral Studies in Romania - Organization of Doctoral Schools - UEFISCU Beneficiary. The quality of Expert evaluator. Director Magdalena Crângașu.*
5. POSDRU 135/5.2/S/134193/2014-2015, ARO-Quick Access to Employment / Promoting the long-term sustainability of rural areas in terms of human resource development and employment.- partnership coordinator.
6. POSDRU ID 132 400 /2014-2015, *Centralization and peripheralization. Elaboration of a methodology for determining the socio-economic dimension of vulnerability. Case study Valea Nirajului - Mentor. Applicant: Torok Ibolya.*
7. POSDRU 159/1.5/S/133351, *Doctoral and postdoctoral programs of excellence for the training of highly qualified human resources for research in the humanities, Life Sciences, Environment and Earth. Quality: Expert. Project manager: PhD Prof. Marieta Costache, University of Bucharest.*
8. POSDRU 187/1.5/S/155559, *Competitive multidisciplinary doctoral research at European level (CdocMD). Quality: Expert. Project manager: PhD Prof. Otilia Hedeșan, West University, Timișoara.*
9. POSDRU 187/1.5/S/155397, *Through doctoral scholarships to a new generation of elite researchers. Quality: Expert. Project manager: Assoc. Prof. PhD Liviu Maha, Al. I Cuza University, Iași.*

International projects

- **Progetto Paese Sicilia-Romania** (partnership project)/ Universita di Palermo/ University of Bucharest / Babeș-Bolyai University of Cluj-Napoca, member.
- *Processes of Land Degradation from the Plateau Regions of Romania and R.Moldova induced by Phenomena of Extreme Weather Associated of Rainfalls. - proposal 2016.*
- **11th Workshop of IAG/AIG SEDIBUD (Sediment Budgets in Cold Environments) Working Group** "Relationships between climate change, vegetation cover and sediment fluxes in high latitude /high altitude cold environments", Bara, Hunedoara County, Romania, September 5-8, 2017.
- **European Society for Soil Conservation (ESSC) International Conference** (Soil: Our Common Future), Cluj-Napoca, Romania, June 15-18, 2016.

International scientific events

- International Conference Contemporary Trends in Teaching and Learning geography, Cluj-Napoca, Romania, November 5-6, 2016.
- 15th International Multidisciplinary Scientific Geoconference (SGEM) Location: Albena, BULGARIA Date: JUN 18-24, 2015.
- 14th International Multidisciplinary Scientific Geoconference (SGEM) Location: Albena, BULGARIA Date: JUN 17-26, 2014.
- 8th IAG International Conference on Geomorphology „*Geomorphology and sustainability*”, Paris, 26 - 31 August 2013.
- Carpato-Balkan-Dinaric Conference on Geomorphology held on the occasion of the 50th anniversary of foundation of the Carpato-Balkan Geomorphological Commission on June 24 - 28, 2013, at Stara Lesna & Tatranska Lomnica, Slovakia.
- *European Geosciences Union General Assembly*, http://meetingorganizer.copernicus.org/online/EGU2012_session/9260/ISI, 22-27 April 2012, Vienna, Austria.
- Congreso Internacional sobre Patrimonio Geológico y Minero “*Valorización de Elementos Geomineros en Contexto de Los Geoparques*”, Barcelona, Spain, 29 Oct - 2 Nov 2011.
- The 3RD Congress of Serbian Geographers, Banjaluka, 12-14 oct. 2011.
- *International Conference on Geoheritage and Geotourism.*, Lisabona, 14-17 oct. 2010.
- *International Conference in Athens by Romanian, Italian, Belgium, French and Greek Associations of Geomorphologists*, Greece (June, 2010).
- *14th Joint Geomorphological Meeting Italy- Romania - Belgium- France –Greece Contemporary Directions in The Study of The Relief*, Bucharest - Sinaia, Romania, May 26 - 29, 2010.
- *The 12th Belgium-France-Italy-Romania Meeting „Climatic change and related landscape”*, Savona, Italia, 26-29 sept. 2009.
- III Convegno Nazionale AIGeo „*Il ruolo della geomorfologia nella gestione del territorio*”, Modena, 13-18 sept., 2009.
- Colloque International de Géomorphologie / Géomorphosites 2009 — imagerie, inventaire, mise en valeur et vulgarisation du patrimoine géomorphologique/ Université Paris--Sorbonne/10-12 June 2009, France.
- IAG Regional Conference on Geomorphology „*Landslides, Floods and Global Environmental Change in Mountain Regions*”, Braşov, Romania, 2008.

Interviews

- Economic Forum -TV NCN / 05.07.2007 (topic - How to build in Cluj-Napoca?)
- Prime time –Transilvania Life TV -12.04.2012 (topic: earthquakes in Romania).
- News Journal –Transilvania Life TV -03.01.2013 (earthquakes in Transylvania).
- Uncensored - Sălăjeanul TV - 10.10.2013 (Natural risks and their management).
- Happening in Zalău - Sălăjean TV-23.11.2014 (Spatial planning and associated risks).

Cluj-Napoca, 27.09.2021

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