

Marcel MÎNDRESCU. Curriculum Vitae

PROFESSIONAL EXPERIENCE

- ❑ 2014-present, Assoc. Professor, University of Suceava (USV), Str. Universitatii, no. 13, 720229, Suceava, ROMANIA
- ❑ 1999-2014, Asistent and Lecturer, University of Suceava (USV), Str. Universitatii, no. 13, 720229, Suceava, ROMANIA
- ❑ 1997-1999, Teacher, National College Emil Racovita, Vaslui, Romania

EDUCATION AND FELLOWSHIPS

- ❑ Habil/2016 “*Lake sediments and glacial cirques in the Romanian Carpathians and their climatic implications*”, University of Suceava, Romania
- ❑ PhD/2006 „*Geomorphometry of the glacial cirques in the Romanian Carpathians*”, Magna cum Laudae, University Al. I. Cuza Iasi, Romania
http://atlas.usv.ro/www/geografie/usv/pdf/Teza%20de%20doctorat_Mindrescu-2016.pdf
- ❑ Post university Studies „*Dynamic geomorphology*”/1997-1998, University Al. I. Cuza Iasi, Romania
- ❑ BSc in Geography/1997, University Al. I. Cuza Iasi, Romania
- ❑ Internship: *Glacial geomorphology and geomorphometry*, 1999, University of Durham, United Kingdom (supervisor: Dr. Ian EVANS)
- ❑ Internship (2015): Analyses of lacustrine sediments and glacial deposits, University of Bern, CH

PUBLICATIONS (https://www.researchgate.net/profile/Mindrescu_Marcel)

- ❑ 31 papers published in Web of Science journals (of which 10 as a first author)
- ❑ More than 30 papers published in journals indexed in international databases
- ❑ A newly published books tackling a novel scientific field in Romania (palaeolimnology and glacial geomorphology)
- ❑ Two peer-reviewed book chapters published in an international publishing house
- ❑ Two nationwide-scale maps with comprehensive explanatory text

INTERNATIONAL RECOGNITION:

- ❑ **Guest Editor** for 3 issues of *Quaternary International* (Web of Science, FI=1.952):
 1. ***Advancing Pleistocene and Holocene climate change research in the Carpathian-Balkan region***, volume 293/2013, comprising of 25 scientific papers:
<http://www.sciencedirect.com/science/journal/10406182/293>
 2. ***Climate change in the Balkan-Carpathian region during Late Pleistocene and Holocene***, volume 415/2016, comprising of 27 papers:
<http://www.sciencedirect.com/science/journal/10406182/415>
 3. ***Central and Eastern Europe Paleoscience: From Local to Continental Perspective*** (2019), volume 504, comprising of 18 papers:

- ❑ **Leader of CarpClim Working Group** as an endorsed group of PAGES
<https://pastglobalchanges.org/science/end-aff/carpclim>
- ❑ **Chairman and organizer of 5 international conferences** on past and present climate changes, and advances in paleoscience in the Carpathian-Balkan area and Central and Eastern Europe (from 2011 to 2016):
 1. *Climate Change in the Carpathian-Balkan Region During the Late Pleistocene and Holocene* (CBW2011, June 2011, Suceava, Romania): <http://www.pages-igbp.org/calendar/past/2011-past/127-pages/1144-climate-change-in-the-balkan-carpathian-region-during-the-late-pleistocene-holocene>
 2. *Interdisciplinarity in Geoscience in the Carpathian Basin* (IGCB2012, 18-21 October 2012, Suceava, Romania): <http://georeview.ro/ojs/index.php/revista/article/view/51>
 3. *Late Pleistocene and Holocene climatic variability in the Carpathian-Balkan area* (CBW2014, 6-9 November 2014, Cluj Napoca, Romania): <http://www.pages-igbp.org/calendar/past/2014/127-pages/1208-carpathian-balkan-2014-workshop>
 4. *Central and Eastern Europe Paleoscience Symposium: From Local to Global* (CEEP2016, 23-26 May 2016, Cluj Napoca, Romania):
<https://www.pastglobalchanges.org/publications/pages-magazines/pages-magazine/10579>
 5. *Carpathian-Balkan Paleoscience Workshop 2021* (CBPW2021: 5-9 October 2021, Carlibaba/Fluturica, Suceava, Romania): <https://geoconcept.ro/cbpw2021/> and <http://pastglobalchanges.org/calendar/upcoming/127-pages/1996>
- ❑ **Member in the steering committee:**
 1. *Science for Carpathians* (S4C): http://carpathianscience.org/about/s4c-scientific-steering-committee/mindrescu_marcel_ok-2/
 2. *President of South Eastern Europe Mountain Research (SEEmore)* as an endorsed group of Mountain Research Initiative (MRI): <https://www.mountainresearchinitiative.org/find-an-expert>, 2012-2015
- ❑ **Founder and Editor-in-chief for the journal Georeview** (*Scientific Annals of Stefan cel Mare University of Suceava. Geography series*, indexed in international databases), from 2011 to 2019. www.georeview.ro
- ❑ **Member in the scientific board of the international journal Acta Scientiarum Polonorum :**
<http://www.acta.media.pl/pl/main.php?p=10&sub=3&act=57&s=15&lang=en>
- ❑ **Invited Professor** at the University of Toulouse, France (Oct-Nov 2019 and Nov-Dec 2021)
- ❑ **Member in the doctorate committee and international PhD supervisor**
 - i) I am currently co-supervising the doctoral thesis *‘Pollen-based quantitative reconstructions of past natural and anthropogenic landscape openness in five European field laboratories’* elaborated by PhD candidate Maria Antonia Serge at Jean Jaures University of Toulouse, France under the TERRANOVA project framework (<https://www.terranova-itn.eu/maria-antonia-serge/>)

ii) I was member of the doctoral committee for PhD candidate T. Groparu (2020) at Jean Jaures University of Toulouse, France (*Trajectoire d'évolution d'un système deltaïque anthropisé: le delta du Danube. Étude couplée par les archives cartographiques et sédimentaires*).

- ❑ **Scientific referee**
- ❑ **Erasmus coordinator**, 1999-
- ❑ **Convener/moderator**

NATIONAL RECOGNITION:

- ❑ Member of Scientific Committee of National Park of Rodna Mountains, 2017-
- ❑ Member of CNATDCU, Committee of Earth Science (The Appeals Board), 2017-2020
- ❑ Member of National Council of Scientific Research in Romania, Committee of Earth Science, 2016-
- ❑ Member of International Association of Geomorphology and National Association of Romanian Geomorphologists, 1998-
- ❑ Member of Past Global Changes (PACES), 2010-
- ❑ Member of Mountain Research Initiative (MRI/SeeMoRe), 2008-
- ❑ President of the Association of Applied Geography GEOCONCEPT, 2010-
<https://geoconcept.ro/contact/>

RESEARCH GRANTS:

National (director)

i. *Climate variability recorded by glacial deposits and lake sediments* (PNII-RU-TE-2012-3-0386).
<http://georeview.ro/cirques&lakes/>

International (national and workplan coordinator):

i. *Mid-late Holocene flood events in south-eastern and central Romanian lowlands (HoLFloods)* (Coordinator: G. Florescu). Position: Senior researcher

ii. *Looking into the past to anticipate the future: Extreme climate variability in Dobrogea Region from a paleo perspective based on stable oxygen isotope in tree rings* (Coordinator: V. Nagavciuc). Position: Mentor

iii. *The European Landscape Learning Initiative: Past and Future Environments and Energy Regimes shaping Policy Tools-TERRANOVA* (HORIZONT). Coordinator: Sjoerd Kluiving (Amsterdam, Holland). Position: National manager (representer). <https://www.terranovalt.itn.eu/>

iv. *Les dernières hêtraies-sapinières subnaturelles européennes: une étude globale sur la longue durée pour leur meilleure connaissance, conservation et gestion (BENDYS)*. Coordinator: Vanessa PYSARAGAGLIA (Univ. Toulouse, France). Position: National manager (representer). <https://anr.fr/fileadmin/documents/2019/Aapg-selection-prc-prce-jcjc-2019.pdf>

v. *Forest response to climate change predicted from multicentury climate proxy-records in the Carpathian region - CLIMFOR* (EEA-JRP-RO-NO-2013-1-0204, Romania-Norvegia). Coordinator: Catalin Roibu (USV, Romania). Position- Workplan leader. <http://www.silvic.usv.ro/climfor/team.php>

vi. *Assessing climate variability and human impact based on the study of sediments and glacial deposits in Rodna Mountains, Northern Romania*- Sciex Fellowship 13.341: NROM. Position: National supervisor and coordinator. <https://www.youtube.com/watch?v=F8t6SlcnZcY>

- vii. **Les vieilles FORETs des Maramures (Carpatés orientales) face à l'Exploitation forestière Intensive : plan d'urgence pour une étude gLobale en vue de leur préservation et gestion durable (FORETEXIL).** Coordinator: Vanessa PYSARAGAGLIA (Univ. Toulouse, France). Position: National manager (representer). https://www.cnrs.fr/mi/IMG/pdf/oasic2018_tableau_laureats-web.pdf
- viii. **CRYPTIC: CRYPtogams' Traits In the Carpathians.** Coordinator : Buczkó Krisztina (Budapest, Hungary). Position: National manager (representer). http://buczko.eu/cryptic/project_members/project_members.php
- ix. **Protecting forests and livelihoods in the Romanian Carpathians through community management practices.** Coordinator : William Keeton (Univ. Vermont, USA). Position: National manager (representer). <http://www.uvm.edu/rsenr/wkeeton/?Page=grants.html>

RESEARCH PAPERS (Web of Science):

1. **Mîndrescu M**, Haliuc A, Zhang W, Carozza JM, Carozza L, Valette P, Groparu T, Sun Q, Nian X, Gradinaru I (2022) **A 600 years sediment record of heavy metal pollution history in the Danube Delta.** Science of The Total Environment: [https://authors.elsevier.com/sd/article/S0048-9697\(22\)00794-X](https://authors.elsevier.com/sd/article/S0048-9697(22)00794-X)
2. Kłapyta P, **Mîndrescu M**, Zasadni J (2022) The impact of local topoclimatic factors on marginal Pleistocene glaciation in the Northern Romanian Carpathians. Catena: <https://doi.org/10.1016/j.catena.2021.105873>
3. Karlik M, Vancsik A, Szalai Z, **Mîndrescu M** et al. (2021) Natural and anthropogenic impacts reflected by paleoclimate proxy parameters in a lake-forest system in Bukovina, Romania. Hungarian Geographical Bulletin 70 (4), 339–351. DOI: 10.15201/hungeobull.70.4.4. <https://ojs.mtak.hu/index.php/hungeobull/article/view/7336>
4. Karlik, Gyollai I, Vancsik A, Fintor K, Szalai Z, **Mîndrescu M** et al. (2021). High resolution mineralogical characterization of sediments- Lake Bolatau-Ferdeu (Romania). Carpathian Journal of Earth and Environmental Sciences, Vol. 16/1, 199 – 210. DOI:10.26471/cjees/2021/016/167. <http://cjees.ro/viewTopic.php?topicId=895>
5. Kłapyta P, **Mîndrescu M**, Zasadni J (2021) Geomorphological record and equilibrium line altitude of glaciers during the last glacial maximum in the Rodna Mountains (eastern Carpathians). Quaternary Research, vol. 100, 1-20. <https://doi.org/10.1017/qua.2020.90>
6. Haliuc A, Feurdean, **Mîndrescu M**, et al. (2019) Impacts of forest loss in the eastern Carpathian Mountains: linking remote sensing and sediment changes in a mid-altitude catchment (Red Lake, Romania). **Regional Environmental Change**, 19/2: 461-475. <https://link.springer.com/article/10.1007/s10113-018-1416-5>. IF: 3.149 (WoS)
7. Nistor MM, **Mîndrescu M** (2019) Climate change effect on groundwater resources in Emilia-Romagna region: An improved assessment through NISTOR-CEGW method. **Quaternary International**, 504: 214-228. <https://www.sciencedirect.com/science/article/pii/S1040618217308935>. IF:1.952 (WoS)
8. **Mîndrescu M** (2019) Central and Eastern Europe Paleoscience: From Local to Continental Perspective. **Quaternary International**, 504: 1-4. <https://www.sciencedirect.com/science/article/pii/S1040618219302290>. IF:1.952 (WoS)
9. Dezsı S, **Mîndrescu M**, Petrea D, Rai PK, Hamann A, Nistor MM (2018). High-resolution projections of evapotranspiration and water availability for Europe under climate change. **International Journal of Climatology**, 38: 3832-3841. <https://rmets.onlinelibrary.wiley.com/doi/pdf/10.1002/joc.5537>. IF: 3.601 (WoS)
10. Karlik M, Fekete J, **Mîndrescu M**, Gradinaru I, Bozsö G, Bıró L, Kern Z (2018) Natural and anthropogenic changes in a lake-forest system in Bukovina (Romania) since 1340 AD documented by sedimentary organic geochemistry (C, N and n-alkanes). **Quaternary International**, 493: 166-175

<https://www.sciencedirect.com/science/article/pii/S1040618218302593>. IF:1.952 (WoS)

11. Nistor MM, **Mîndrescu M**, Petrea D, Nicula A-S, Rai PK, Benzaghta MA, Dezsi S, Hognogi G, Porumb-Ghiurco CG (2018) Climate change impact on crop evapotranspiration in Turkey during the 21st Century. *Meteorological Applications*, <https://doi.org/10.1002/met.1774>
<https://rmets.onlinelibrary.wiley.com/doi/10.1002/met.1774>. IF: 1.711 (WoS)
12. Bihari Á, Karlik M, **Mîndrescu M**, Szalai Z, Grădinaru I, Kern Z (2018) Fallout isotope chronology of the near-surface sediment record of Lake Bolătau. *Journal of Environmental Radioactivity*, 181:32-41.
<https://www.sciencedirect.com/science/article/pii/S0265931X17301091>. IF: 2.179 (WoS)
13. Florescu G, Hutchinson SM, Kern Z, **Mîndrescu M**, Cristea IA, Mihăilă D, Łokas E, Feurdean A (2017) Last 1000 years of environmental history in Southern Bucovina, Romania: A high resolution multi-proxy lacustrine archive. *Palaeogeography, Palaeoclimatology, Palaeoecology* 473: 26–40.
<https://www.sciencedirect.com/science/article/pii/S0031018216304369>. IF: 2.616 (WoS)
14. **Mîndrescu M**, Florescu G, Grădinaru I, Haliuc A (2016) Lakes, lacustrine sediments and palaeoenvironmental reconstructions (cap. 30). In: Landform Dynamics and Evolution in Romania. Edit. Springer, 699-731. Springer Geography. https://link.springer.com/chapter/10.1007/978-3-319-32589-7_30
15. **Mîndrescu M**, Evans IS (2017) Glacial cirques in the Romanian Carpathians and their climatic implications (cap. 9). In: Landform Dynamics and Evolution in Romania. Edit. Springer, 208-224. Springer Geography. https://link.springer.com/chapter/10.1007/978-3-319-32589-7_9
16. **Mîndrescu M**, Németh A, Grădinaru I, Bihari Á, Németh T, Fekete J, Bozsó G, Kern Z (2016) Bolătau sediment record - Chronology, microsedimentology and potential for a high resolution multimillennial palaeoenvironmental proxy archive. *Quaternary Geochronology* 32: 11-20.
<https://www.sciencedirect.com/science/article/pii/S1871101415300674>. IF: 3.962 (WoS)
17. Árvai M, Popa I, **Mîndrescu M**, Nagy B, Kern Z (2016) Dendrochronology and radiocarbon dating of subfossil spruce logs from a peat bog, Maramures Mts, Romania. *Quaternary International* 415: 6-14.
<https://www.sciencedirect.com/science/article/pii/S1040618215011921>. IF: 1.952 (WoS)
18. Necșoiu M, **Mîndrescu M**, Onaca A, Wigginton S (2016) Geomorphologic evolution of alpine lakes in Southern Carpathian mountains using high-resolution optical imagery. *Quaternary International* 415: 164-174. IF: 1.952 (WoS)
<https://www.sciencedirect.com/science/article/pii/S1040618215014263>
19. **Mîndrescu M**, Veres D (2016) Recent contributions and prospects for climatic variability studies in Central and Eastern Europe. *Quaternary International* 415: 1-5. IF: 1.952 (WoS)
<https://www.sciencedirect.com/science/article/pii/S1040618216304979>
20. Hutchinson SM, Akinyemi FO, **Mîndrescu M**, Begy R, Feurdean A (2016) Recent sediment accumulation rates in contrasting lakes in the Carpathians (Romania): impacts of shifts in socio-economic regime. *Regional Environmental Change* 16(2): 501-513. IF: 3.149 (WoS)
<https://link.springer.com/article/10.1007/s10113-015-0764-7>
21. **Mîndrescu M** and Evans IS (2014) Cirque form and development in Romania: allometry and the buzz-saw hypothesis. *Geomorphology* 208: 117-136. IF:3.681 (WoS)
<https://www.sciencedirect.com/science/article/abs/pii/S0169555X13005989>
22. Geantă A, Gaika M, Tanțău I, Hutchinson SM, **Mîndrescu M**, Feurdean A (2014) High mountain region of the Northern Romanian Carpathians responded sensitively to Holocene climate and land use changes: A multi-proxy analysis. *The Holocene* 24(8): 944-956. IF:2.547 (WoS)
<https://journals.sagepub.com/doi/full/10.1177/0959683614534747>
23. Lendvai B, Höhn M, Brodbeck S, **Mîndrescu M**, Gugerli F (2014) Genetic structure in Pinus cembra from the Carpathian Mountains inferred from nuclear and chloroplast microsatellites confirms post-glacial range

contraction and identifies introduced individuals. *Tree Genetics and Genomes*, 10: 1419-1433. **IF:1.862** (WoS)

<https://link.springer.com/article/10.1007/s11295-014-0770-9>

24. **Mîndrescu M**, Cristea AI, Hutchinson SM, Florescu G, Feurdean A (2013) Interdisciplinary investigations of the first reported laminated lacustrine sediments in Romania. *Quaternary International* 293: 219-230. **IF: 1.952** (WoS)
<https://www.sciencedirect.com/science/article/pii/S1040618212031618>
25. Akinyemi FO, Hutchinson SM, **Mîndrescu M**, Rothwell JJ (2013) Lake sediment records of atmospheric pollution in the Romanian Carpathians. *Quaternary International* 293: 105-113. **IF: 1.952** (WoS)
<https://www.sciencedirect.com/science/article/pii/S1040618212000377>
26. Fărcaș S., Tanțău I., **Mîndrescu M.**, Hurdu B. 2013. Holocene vegetation history in the Maramureș Mountains (Northern Romanian Carpathians). *Quaternary International* 293: 92-104. **IF: 1.952** (WoS)
<https://www.sciencedirect.com/science/article/pii/S1040618212002340>
27. Vereș, D, **Mîndrescu M** (2013) Advancing Pleistocene and Holocene climate change research in the Carpathian-Balkan region. *Quaternary International*, 293, 1-4. **IF: 1.952** (WoS)
<https://www.sciencedirect.com/science/article/pii/S1040618212033629>
28. Knorn J, Kuemmerle T, Radeloff VC, Szabo A, **Mîndrescu M**, Keeton WS, Abrudan I, Griffiths P, Gancz V, Hostert P (2012) Forest restitution and protected area effectiveness in post-socialist Romania. *Biological Conservation*, 146/1, 2012, 204-212. **IF: 4.451** (WoS)
<https://www.sciencedirect.com/science/article/abs/pii/S0006320711004836>
29. **Mîndrescu M**, Cristea IA, Hutchinson SM (2010) Bathymetric and sedimentological changes of glacial Lake Știol, Rodna Masiff. *Carpathian Journal of Earth and Environmental Sciences* 5(1): 57-65. **IF: 0.730** (WoS)
<http://www.ubm.ro/sites/CJEES/viewTopic.php?topicId=75>
30. **Mîndrescu M**, Evans IS, Cox NJ (2010) Climatic implications of cirque distribution in the Romanian Carpathians: Palaeowind directions during glacial periods. *Journal of Quaternary Science* 25(6): 875-888. **IF: 2.846** (WoS)
<https://onlinelibrary.wiley.com/doi/abs/10.1002/jqs.1363>
31. Fărcaș S, Tanțău I, Hurdu B, **Mîndrescu M**, Filipas L (2009) Phytohistorical aspects of the Natura 2000 site "Maramures Mountains", *Contribuții Botanice* [BIOSIS Previews (Web of Science)], Cluj-Napoca, XLIV, 2009, p. 131-140.

BOOKS, CHAPTERS and MAPS:

1. **Mîndrescu M** (2016) Geomorfometria circurilor glaciare din Carpații Românești (*Geomorphometry of the glacial cirques in the Romanian Carpathians*). Edit. Universității "Ștefan cel Mare" Suceava, Romania (174 p.). ISBN 978-973-666-498-4.
http://atlas.usv.ro/www/geografie/usv/pdf/Teza%20de%20doctorat_Mindrescu-2016.pdf
2. Florescu G and **Mîndrescu M** (2016) Ghid practic de paleolimnologie (*Guidebook of palaeolimnology*). Editura Universității Ștefan cel Mare Suceava, Romania (207 p.). ISBN 978-973-666-469-4.
<http://atlas.usv.ro/www/geografie/usv/pdf/Ghid%20de%20paleolimnologie-2016.pdf>
3. **Mîndrescu M** (2016) Circurile glaciare din Carpații Românești (*Glacial cirques in the Romanian Carpathians*). Editura Universității Ștefan cel Mare Suceava, Romania. ISBN: 978-973-666-491-5.

<http://atlas.usv.ro/www/geografie/usv/pdf/Harta%201-CIRCURI-FATA-2016.pdf>

<http://atlas.usv.ro/www/geografie/usv/pdf/Harta%201-CIRCURI-VERSO-2016.pdf>

4. **Mîndrescu M**, Cristea AI, Zamosteanu A (2016) Lacurile și turbăriile glaciare din Carpații românești (*Glacial lakes and peatbogs in the Romanian Carpathians*). Editura Universității Ștefan cel Mare Suceava, Romania. ISBN: 978-973-666-470-0.

<http://atlas.usv.ro/geoconcept/webcarpath/index.html> (**online data base**)

<http://atlas.usv.ro/www/geografie/usv/pdf/Harta%202-LACURI-FATA-2016.pdf>

<http://atlas.usv.ro/www/geografie/usv/pdf/Harta%202-LACURI-VERSO-2016.pdf>

5. **Mîndrescu M**. (2017) Lake sediments and glacial deposits in the Romanian Carpathians and their climatic implications (habilitation thesis):

http://atlas.usv.ro/www/geografie/usv/pdf/Teza%20de%20abilitare_Mindrescu-2015.pdf

6. **Mîndrescu M**, Florescu G, Grădinaru I, Haliuc A (2016) Lakes, lacustrine sediments and palaeoenvironmental reconstructions (cap.30). In: Landform Dynamics and Evolution in Romania. Edit. Springer, 699-731.

7. **Mîndrescu M**, Evans IS (2016) Glacial cirques in the Romanian Carpathians and their climatic implications (cap. 9). In: Landform Dynamics and Evolution in Romania. Edit. Springer, 208-224.

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Dr. Marcel Mindrescu

