

CURRICULUM VITAE

Personal information:

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Education

October 2012 – September 2015: PhD candidate in the field of Geology, Supervisor: Prof. Dr. Vlad Codrea, Faculty of Geology and Biology, Babes-Bolyai University, Cluj-Napoca

Thesis title: On the dating of the last glacial cycle in loess deposits using quartz optically stimulated luminescence

October 2010 – September 2012: Master's degree in Luminescence Dating, Faculty of Environmental Science and Engineering, Babes-Bolyai University, Cluj-Napoca. Supervisor: Prof. Dr. Alida Gabor

Thesis title: **SAR-OSL dating of a sedimentary section in southern Romania interbedding the Campanian Ignimbrite/Y5 ash layer**

2007-2010: Bachelor degree in Environmental Science, Faculty of Environmental Science and Engineering, Babes-Bolyai University, Cluj-Napoca. Supervisor: Prof. Dr. Alida Gabor

Thesis title: Environmental dosimetry using thermoluminescence

Employment record

October 2016 – present: Scientific researcher grade III at the Luminescence Dating and Dosimetry Laboratory, Institute of Interdisciplinary Research in Bio-Nano-Sciences of Babes-Bolyai University, Cluj-Napoca

September 2011 – October 2016: Assistant Researcher at the Luminescence Dating and Dosimetry Laboratory, Institute of Interdisciplinary Research in Bio-Nano-Sciences of Babes-Bolyai University

Scientific record

Research grants (selection)

September 2020 – August 2020 – Principal Investigator of the project *To what extent can uncertainties on luminescence ages be reduced: a field study on the variability of ages obtained on coeval sedimentary samples.* UEFISCDI PN-III-PI-1.1-PD-2019-0895

April 2016 – March 2020 – Postdoctoral researcher in the project *Integrated absolute dating approach for terrestrial records of past climate using trapped charge methods, INTERTRAP Starting Grant Horizon 2020* lead by Prof. Dr. Alida Timar-Gabor

October-December 2019/April – July 2020 – Postdoctoral researcher in the project *Cave deposits as archives of climate and environmental changes. A Center of Excellence in speleological research,* EEA-RO-NO-2018-0126 lead by. Dr. Silviu Constantin

November 2016 – March 2020 (intermittently, 14 months total) – Member in the project *Premierea H2020 Integrated absolute dating approach for terrestrial records of past climate using trapped charge (INTERTRAP).* UEFISCDI PN-III-P3-3.6-H2020-2016-0015 lead by Prof. Dr. Alida Gabor

October 2015 – April 2016 – Member in the project *Habitat, environment and natural resources in the Lower Danube Basin in pre- and proto-history.* UEFISCDI PN-II-PT-PCCA-2013-4-1308 lead by Acad. Dr. Alexandru Vulpe

November 2011 – October 2014 – Member in the project: *Dating the Romanian Part of the European Loess Belt Using Luminescence TE/ CNCS-UEFISCDI PN II-RU-TE-2011-3-0062* lead by Dr. Alida Timar-Gabor.

Book chapters:

1. Alida Timar-Gabor, Cristian Panaiotu, Daniel Veres, Cristian Necula, **Daniela Constantin**, chapter “*The lower Danube loess, new age constraints from luminescence dating, magnetic proxies and isochronous tephra markers*” in volume *LANDFORM DYNAMICS AND EVOLUTION IN ROMANIA*(Editors: Maria Rădoane and Alfred Vespremeanu-Stroe), **Springer Geography** 2016, ISSN: 2194-315X.
<http://www.springer.com/series/10180?detailsPage=titles&token=prtst0416p>
2. Alida Timar-Gabor, **Daniela Constantin**, Valentina Anechitei-Deacu, Ionela Șteopoaie-Cârdan, *Capitol VII. Date aprin luminescență stimulată optic* (pag. 263-344) in *Dozimetrie prin termoluminescență (TL) și luminescență stimulată optic (OSL): aplicații în studii de mediu*. Cluj-Napoca, Presa Universitară Clujeană, **2013**, 400 p. ISBN 978-973-595-534-2. (in Romanian).

ISI Thomson Reuters papers:

1. Avram, A., **Constantin, D.**, Veres, D., Kelemen, S., Obrecht, I., Hambach, U., Marković, S.B., Timar-Gabor, A., 2020. Testing polymineral post-IR IRSL and quartz SAR-OSL protocols on Middle to Late Pleistocene loess at Batajnica, Serbia. *Boreas* 49, 615-633.
<https://onlinelibrary.wiley.com/doi/full/10.1111/bor.12442>
2. Tecsa, V., Mason, J.A., Johnson, W.C., Miao, X., **Constantin, D.**, Radu, S., Magdas, D.A., Veres, D., Markovic. S.B., Timar-Gabor, A., 2020. Latest Pleistocene to Holocene loess in the central Great Plains: Optically stimulated luminescence dating and multi-proxy analysis of the Enders loess section (Nebraska, USA). *Quaternary Science Reviews* 229, 106130.
<https://www.sciencedirect.com/science/article/pii/S0277379119305967>
3. **Constantin, D.**, Veres, D., Panaiotu, C., Anechitei-Deacu, V., Groza, S.M., Begy, R.C., Kelemen, S., Buylaert, J.P., Hambach, U., Marković, S.B., Gerasimenko, N., Timar-Gabor, A., 2019: Luminescence age constraints on the Pleistocene-Holocene transition recorded in

loess sequences across SE Europe. *Quaternary Geochronology* 49, 71-77. WOS 000454376300013.

<https://www.sciencedirect.com/science/article/pii/S1871101417302388>

4. Anechitei-Deacu, V., Timar-Gabor, A., **Constantin, D.**, Trandafir-Antohei, O., Valle, L.D., Fornós, J.J., Gómez-Pujol, L., Wintle, A.G., 2018. Assessing the maximum limit of SAR-OSL dating using quartz of different grain sizes. *Geochronometria* 45, 146-159. DOI 10.1515/geochr-2015-0092.
[https://content.sciendo.com/configurable/contentpage/journals\\$002fgeochr\\$002f45\\$002f1\\$002farticle-p146.xml](https://content.sciendo.com/configurable/contentpage/journals$002fgeochr$002f45$002f1$002farticle-p146.xml)
5. Timar-Gabor, A., Buylaert, J.-P., Guralnik, B., Trandafir-Antohei, O., **Constantin, D.**, Anechitei-Deacu, V., Jain, M., Murray, A.S., Porat, N., Hao, Q., Wintle, A.G., 2017. On the importance of grain size in luminescence dating using quartz. *Radiation Measurements* 106, 464-471.
6. <https://www.sciencedirect.com/science/article/pii/S1350448717300446>
7. Timar-Gabor A., **Constantin D.**, Buylaert J.P., Jain M., Murray A.S., Wintle A.G., 2015. *Fundamental investigations of natural and laboratory generated SAR dose response curves for quartz in the high dose range*. *Radiation Measurements* 81, 150-156.
<http://www.sciencedirect.com/science/article/pii/S1350448715000141>
8. **Constantin D.**, Jain M., Murray A.S., Buylaert, J.P., Timar-Gabor A., 2015. *Quartz luminescence response to a mixed alpha - beta field: Investigations on Romanian loess*. *Radiation Measurements* 81,110-115.
<http://www.sciencedirect.com/science/article/pii/S1350448715000025>
9. Timar-Gabor A., **Constantin D.**, Markovic S. B., Jain, M., 2015. *Extending the area of investigation of fine versus coarse quartz optical ages from the Lower Danube to the Carpathian Basin*. *Quaternary International* 388, 168-176.
<http://www.sciencedirect.com/science/article/pii/S104061821400723X>
10. **Constantin D.**, Camenita A., Panaiotu C., Necula C., Codrea V., Timar-Gabor A., 2015. *Fine and coarse-quartz SAR-OSL dating of Last Glacial loess in Southern Romania*. *Quaternary International* 357, 33-43.
<http://www.sciencedirect.com/science/article/pii/S1040618214005229>
11. **Constantin D.**, Begy R., Vasiliniuc S., Panaiotu, C., Necula C., Codrea V., Timar-Gabor A., 2014. *High resolution OSL dating of the Costinești section Romania using fine and*

coarse quartz. Quaternary International 334-335, 20-29.

<http://www.sciencedirect.com/science/article/pii/S1040618213003492>

- 12.** Corcea A.C., **Constantin D.**, Anechitei V., Timar-Gabor A., Filipescu S., 2013. *SAR OSL dating of 63-90 μm quartz extracted from an Eemian (presumably lacustrine) sedimentary section at Florești on the Someșul Mic Valley*. Carpathian Journal of Earth and Environmental Sciences 8(1), 139-145.

<http://www.ubm.ro/sites/CJEES/viewTopic.php?topicId=303>

- 13.** **Constantin D.**, Timar-Gabor A., Veres D., Begy R., Cosma C., 2013. *SAR-OSL dating of different grain-sized quartz from a sedimentary section in southern Romania interbedding the Campanian Ignimbrite/Y5 ash layer*. Quaternary Geochronology 10, 81-86. doi:10.1016/j.quageo.2012.02.012

<http://www.sciencedirect.com/science/article/pii/S1871101412000143>

- 14.** Veres D., Lane C.S., Timar-Gabor A., Hambach U., **Constantin D.**, Szakács, A., Fülling, A., Onac, B.P., 2012. *The Campanian Ignimbrite/Y5 tephra layer – A regional stratigraphic marker for Isotope Stage 3 deposits in the Lower Danube region, Romania*. Quaternary International 293,22-33.

<http://www.sciencedirect.com/science/article/pii/S1040618212001231>

- 15.** Timar-Gabor A., Vasiliniuc Ș., Vandenberghe D.A.G., **Constantin, D.**, Cosma, C., 2011. *Luminescence dating of archaeological materials and sediments in Romania using quartz*. Romanian Reports in Physics 63(4), 929-939.

<http://www.rrp.infim.ro/>

International conference attendance: 13 international meetings contributing with 7 oral and 5 poster presentations (starting 2011).

Students co-supervision: Member in the guidance committee of 7 PhD students (Pănescu Vlad, Avram Anca, Tecșa Viorica, Kelemen Szabolcs, Groza (Săcaci) Mădălina, Radu Stelian, Laura del Valle Villalonga) out of which 3 are currently in the process of writing their thesis; Co-supervisor of 1 bachelor and 4 master's dissertations.

Reviewer in relevant journals in the field of luminescence dating: Radiation Measurements (Certificate of Excellence in Reviewing), Quaternary Geochronology, Palaeoecology Palaeoclimatology Palaeogeography, Geochronometria and Quaternary International.

HIRSCH Index= 8 according to Web of Science Core Collection, SCOPUS and Google Scholar

Cluj-Napoca

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