

## Curriculaum Vitae

*Dr. Habil. Alida Timar-Gabor*

### Personal information:

**Family name, First name:** GABOR (born TIMAR) ALIDA IULIA

**Research unique identifier:** ORCID <http://orcid.org/0000-0003-4799-3866>

**Date of birth:** September 17<sup>th</sup> 1983

**Nationality:** Romanian

**Adress: Faculty of Environmental Science and Engineering**

Fântânele 30, 400294, Cluj-Napoca, Romania.

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### Current position:

February 2015-present: **Associate Professor**, Department of Environmental Analysis and Engineering, Faculty of Environmental Science and Engineering, Babeş-Bolyai University, Cluj-Napoca.

August 2014 – present: **Research Professor**, Institute for Interdisciplinary Research in Bio–Nano–Sciences, Babeş-Bolyai University.

Director of Environmental radioactivity and Nuclear dating Centre, Institute Of Interdisciplinary Reasearch on Bio-Nano-Sciences.

### Previous position:

October 2012 – February 2015: Lecturer, Department of Environmental Analysis and Engineering, Faculty of Environmental Science and Engineering, Babeş-Bolyai University, Cluj-Napoca.

October 2008 - October 2012: Teaching assistant, Department of Environmental Analysis and Engineering, Faculty of Environmental Science and Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania.

### Education:

**Habilitation in Science defended on 15<sup>th</sup> of January 2015**

**October 2006 - June 2010:** PhD Candidate in Physics, Nuclear Physics, Faculty of Environmental Science and Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania.

**2005 - 2006:** Master “Atomic and nuclear methods in environmental research”, Faculty of Environmental Science and Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania.

**2001 - 2005:** Bachelor Degree in Physics, Faculty of Physics, Babeş-Bolyai University.

### Fellowships and awards:

**November 2005- June 2006-** Erasmus fellow in Gent University, Gent, Belgium.

**November 2007-May 2008-** Visiting junior researcher, Luminescence Dating Laboratory, Mineralogy and Petrology Department, Geological Institute, Gent University, Gent, Belgium.

**2008-** International Award „Vagn Mejdahl Prize” for Outstanding Poster Presentation - „ 12<sup>th</sup> International Conference on Luminescence and Electron Spin Resonance Dating”, 18<sup>th</sup>- 22<sup>nd</sup> September 2008, Beijing, China. This is the most prestigious prize awarded at the most important scientific meeting for the luminescence dating community to a student. This is mentioned in the editorials of *Radiation Measurements and Quaternary Geochronology* (*Radiation Measurements* 44/2009, p. 415–416, *Quaternary Geochronology* 5/2010, p. 83).

**2010-** Distinction „The story of my PhD”, in the field of Environmental Science awarded by the Romanian Council of Research.

**2010 -** „Excellence in Research” award of the Babeş-Bolyai University Cluj-Napoca, Romania.

**2011-** „Comenius” award for innovation in teaching of the Babeş-Bolyai University Cluj-Napoca, Romania.

**2013-** Certificate of Reviewing Excellence, at the selection of editors of *Quaternary Geochronology*.

**2013-** Certificate of Reviewing Excellence, at the selection of editors of *Quaternary International*.

**2014-** „Excellentia” award, in recognition of outstanding teaching activities, at the nomination of the council of students of Babeş-Bolyai University of Cluj Napoca.

**2014-** Ad Astra Award for Excellence in Research, Earth and Space Sciences, <http://premiu.ad-astra.ro/?p=71>

**2014-** „Excellence in Research” award of the Babeş-Bolyai University Cluj-Napoca, Romania.

**2014-** „Grigore Cobălcescu” Award of the Romanian Academy, in the field of Geology.

**2015-** UNESCO L'Oréal Romania Award for "Women in Science" in the field of physical sciences.

**2016-** "The Woman"-Innovation Award.

**2016-** „Excellentia" award, in recognition of outstanding teaching activities, at the nomination of the council of students of Babeş-Bolyai University of Cluj Napoca

#### **Supervision of graduate students and postdoctoral fellows:**

Dr. A. Timar-Gabor coordinated the following foreign visitor students: Msd. Katalin Györgyövícs – Szeghed University, Hungary, April 2011; PhD Candidate Dragan Popov– Novi Sad University, Serbia, May-July 2012; PhD Candidate Laura del Valle Villalonga- University of Balearic Islands, Spain – July 2013, April-May 2014 . PhD Candidate Orsolya Toth- University of Szeged, May-June, 2015.

(<http://enviro.ubbcluj.ro/cercetare/studenti%20straini%20vizitatori.php>).

Dr. A. Timar-Gabor has made a substantial contribution to the coordination of Mr. Ştefan Vasiliniuc's PhD thesis (abstract available at: [http://www.aber.ac.uk/en/media/theses\\_atl\(30\)\\_1.pdf](http://www.aber.ac.uk/en/media/theses_atl(30)_1.pdf)), Dr. Daniela Constantin's thesis and Dr. Monica Dolha's thesis.

Dr. Timar-Gabor currently supervises and co-supervises the following PhD candidates: Ionela Steopoaie Cărdan, Valentina Anechitei, Oana Antohi-Trandafir, Andrada Paşcu, Madalina Groza, Viorica Tecca, Kelemen Szabolcz, Hedvig Simon that are working in the Environmental Radioactivity and Nuclear Dating Centre.

Dr. Timar-Gabor supervised 30 bachelor and master's dissertations.

#### **Teaching activities:**

**2006-present** - Faculty of Environmental Science and Engineering, Babeş-Bolyai University, Cluj-Napoca, Romania. Courses, seminars, and practical exercises in: Environmental Radioactivity, Environmental Physics, Classical sources of energy and environmental pollution, Nuclear Geochronology.

**2014-** Invited professor for Short Course in Luminescence Dating, University of Szeged, Hungary, 26<sup>th</sup>-31<sup>st</sup> October. Courses given: "Physical background of TL/OSL phenomenon. Luminescence properties of quartz and feldspars"; "Current concerns when applying OSL dating"; "Error estimation in luminescence dating"; "Annual dose in luminescence dating using high resolution gamma spectrometry"

#### **Organisation of scientific meetings:**

**2012** -First East European radon symposium, *FERAS*, September 2 – 5, Cluj-Napoca, Romania;

**2013-** *INTIMATE* Workshop on Terrestrial Records from Eastern Europe", March 7- 9, Cluj-Napoca, Romania.

**Conference attendance: 34 meetings, 21 oral presentations given by Dr. Alida Timar-Gabor at international conferences, including 4 invited lectures;**

#### **Invited lectures**

**2008-** Qinghai Institute of Salt Lakes (Chinese Academy of Sciences), Xinning, China- 24<sup>th</sup>-25<sup>th</sup> September ([http://www.isl.cas.cn/xwzx/xshd/200906/t20090607\\_573264.html](http://www.isl.cas.cn/xwzx/xshd/200906/t20090607_573264.html)), "Optical dating of Romanian loess".

**2013-** European workshop on the luminescence behaviour and processes in quartz, Institute of Geological Sciences, University of Bern, 22-23 April. "Natural and laboratory generated dose response curves for quartz of different grain sizes: results and challenges from luminescence dating of Romanian loess".

**2015-CRC-** Our way to Europe Workshop, 3-4 July, Aachen Germany. "Optical dating of (Last Glacial) loess in Romania."

**2016-** LOESSFEST, Eau Claire, Wisconsin, 22-25 September 2016.

Chairman at three international conferences, including 14<sup>th</sup> International Conference on Luminescence and Electron Spin resonance Dating, 7-11 July 2014, Montreal, Canada.

#### **Commission of trust:**

Reviewer for the following journals: Quaternary Geochronology (IF=2.476), Quaternary Research (IF=2.583), Quaternary International (IF=2.128), Journal of Asian Earth Sciences (IF=2.831), Applied Radiation and Isotopes (IF=1.056) , Geochronometria (IF=1.243), Radiation Physics and Chemistry (IF=1.189), Environmental Engineering and Management Journal (IF=1.258), Climate of the Past (IF=3.482), Radiation and Environmental Biophysics (IF=1.582), Geomorphology (IF=2.577), Quaternary Science Reviews (FI=4.521)

Evaluator for: National Science Centre, Executive government agency of National Science Centre, (Narodowe Centrum Nauki –NCN), Poland 2015; Research Grants Council (RGC) of Hong Kong, Hong Kong, 2015; National Research, Development and Innovation Office Hungary (NKFIH), Hungary, 2016; National Science Centre, Executive government agency of National Science Centre, (Narodowe Centrum Nauki –NCN), Poland 2017; L`Oreal UNESCO For women in science, Romania 2017.

### **Scientific Research grants manager:**

- „**INTERTRAP- Integrated dating approach for terrestrial records of past climate using trapped charge methods**”, **EUROPEAN RESEARCH COUNCIL STARTING GRANT 678106, HORIZON 2020 (2016-2021)**
- PN-III-P3-3.6-H2020-2016-0016, 7/2006, “Premierea H2020 Integrated absolute dating approach for terrestrial records of past climate using trapped charge methods (INTERTRAP)” **(2016-2021)**
- International services contract University of Balearic Islands, Palma de Mallorca, Spain – Babeş-Bolyai University, Cluj-Napoca, **2014-2015** - Optically stimulated luminescence (OSL) dating of 20 aeolianite samples. TE Grant / CNCS-UEFISCDI PN II- RU-TE-2011-3-0062/ **2011-2014** - Dating the Romanian Part of the European Loess Belt Using Luminescence (<http://uefiscdi.gov.ro/>) <http://granturi.ubbcluj.ro/darolum/>.
- National services contract Romanian Academy, Cluj-Napoca - Babeş-Bolyai University, Cluj-Napoca, **2013-2014**– Dating cave sediments by OSL
- National services contract University of Bucharest – Babeş-Bolyai University, Cluj-Napoca, **2012-2013** – Optically stimulated luminescence analysis of cave sediments.
- National services contract University of Bucharest – Babeş-Bolyai University, Cluj-Napoca, **2011-2012** - Optically Stimulated Luminescence dating of 8 sediment samples collected from coastal barriers Saele, Chituc and Lupilor.
- TD grant / code CNCSIS 395/ **2008-2009** – Retrospective luminescence dosimetry with applications in archeology, geology and environment.

### **Publication list:**

**63 articles published in peer-reviewed journals starting 2006.**

**Over 500 independent citations.**

**Hirsch-index = 17- Google Scholar;** <http://scholar.google.co.uk/citations?hl=en&user=StsjnjsAAAAJ>

**Hirsch-index = 16; Scopus ORCID** <http://orcid.org/0000-0003-4799-3866>

Two books as single author, published in Romania. One book chapter in a volume edited by an international publishing house (Springer). Three volumes of lecture notes for undergraduate and master’s students.

### **Selection of most important publications**

#### **Books:**

1. **Alida Timar-Gabor**, Retrospective luminescence dosimetry: applications in archaeology, geology and environmental studies, **Presa Universitara Clujeana**, **2012**, 219 p, ISBN: 978-973-595-373-7.
2. **Alida Timar-Gabor**, Thermoluminescence and optically stimulated luminescence dosimetry: applications in environmental sciences. In Romanian „Dozimetrie prin termoluminescență (TL) și luminescență stimulată optic (OSL): aplicații în studii de mediu”, **Presa Universitară Clujeană** **2013**, 400 p., ISBN: 978-973-595-534-2.

#### **Selection of articles published as main author:**

1. **Timar A.**, Vandenberghe D., Panaiotu E.C., Panaiotu C.G., Necula C., Cosma C. and Van den haute P., **2010**. Optical dating of Romanian loess using fine-grained quartz. *Quaternary Geochronology*, 5, 143-148. (IF= 3.238)
2. **Timar-Gabor A.**, Vandenberghe D.A.G., Vasiliniuc S., Panaiotu, C. E., Panaiotu, C. G., Dimofte, D., Cosma, C. **2011**. Optical dating of Romanian Loess a comparison between silt-sized and sand-sized quartz. *Quaternary International*, 240, 62-70. (IF=1.768)

3. **Timar Gabor A.**, Ivascu C., Vailiniuc S., Daraban L., Ardelean I., Cosma C., Cozar O., 2011. Thermoluminescence and optically stimulated luminescence properties of the  $P_2O_5$ -xBaO-(0.5-x) Li<sub>2</sub>O glass system. *Applied Radiations and Isotopes*, 69, 780-784. (IF=0.999)
4. **Timar-Gabor A.**, Vasiliniuc Ş., Vandenberghe D.A.G., Cosma C, Wintle A.G., 2012. Investigations on the reliability of SAR-OSL equivalent doses obtained for quartz samples displaying dose response curves with more than one component, *Radiation Measurements* 47, 470-475. (IF= 0.861)
5. **Timar-Gabor A.**, Wintle A.G., 2013. On natural and laboratory generated dose response curves for quartz of different grain sizes from Romanian loess. *Quaternary Geochronology*, 18, 34-40. (IF= 2.476)
6. **Timar-Gabor, A.**, Constantin, D., Buylaert J.P., Jain M., Murray A.S., Wintle A., 2015. Fundamental investigations of natural and laboratory generated SAR dose response curves for quartz in the high dose range. *Radiation Measurements*, 81, 150-156. (IF=1.140)
7. 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*, in press. (IF=1.071)  
<http://www.sciencedirect.com/science/article/pii/S1350448717300446>

#### **Selection of articles published as co-author:**

1. C. Ivascu, **Timar-Gabor A.**, Cozar O., Daraban, L., Ardelean I., 2011. FT-IR, RAMAN and thermoluminescence investigation of  $P_2O_5$  –BaO-Li<sub>2</sub>O glass system. *Journal of Molecular Structure*, 93, 249-253. (IF=1.599)
2. Veres D., Lane C., **Timar-Gabor A.**, Constantin D., Szakacs A., Hambach U., Fullig A., Onac B. P., 2013. The Campanian Ignimbrite tephra layer - a regional stratigraphic marker for the MIS 3 loess deposits of Romania, *Quaternary International*, 293, 22-34. (IF=2.128)
3. Feurdean, A., Persoiu, A., Tantau, I., Stevens, T., Markovic, S., Magyari, E., Onac, B.P., Andric, M., Connor, S., Galka, M., Hoek, W.Z., Lamentowicz, M., Sümegei, P., Persoiu, I., Kolaczek, P., Kuneš, P., Marinova, E., Slowinski, M., Michczyńska, D., Stancikaite, M., Svensson, A., Veski, S., Fărcaş, S., Tămaş, T., Zernitskaya, V., **Timar, A.**, Tonkov, S., Toth, M., Willis, K.J., Płóciennik, M., Gaudeny T., 2014. Climate variability and associated vegetation response throughout Central and Eastern Europe (CEE) between 8 and 60 kyrs ago. *Quaternary Science Reviews*, 106, 206-224. (IF=4.571)
4. Marković, S., Stevens, T., Kukla, G.J., Hambach, U., Fitzsimmons, K.E., Gibbard, P., Buggle, B., Zech, M., Guo, Z., Hao, Q., Wu, H., O'Hara Dhand, K., Smalley, I.J., Újvári, G., Sümegei, P., Timar-Gabor, A., Veres, D., Sirocko, F., Vasiljević, D.A., Jary, Z., Svensson, A., Jovic, V., Lehmkuhl F., Kovacs, J., Svircev, Z., 2015. Danube loess stratigraphy — Towards a pan-European loess stratigraphic model. *Earth-Science Reviews*, 148, 228-258. (IF=9.665)

Cluj-Napoca, June 5<sup>th</sup>, 2017

