

Róbert Arató

PhD in Natural Sciences
Born: 06.03.1990, Moscow, Soviet Union
Family status: married, father of a son
Tel.: +36305854676
e-mail: robert.arato.geo@gmail.com
web: <https://fissiontrackdebrecen.weebly.com/>



Curriculum Vitae

Professional Career

01/09/2018-	Postdoctoral Fellow, Isotope Climatology and Environmental Research Centre, Institute for Nuclear Research, Debrecen, Hungary
01/09/2018-	Laboratory manager, Institute for Nuclear Research, Debrecen, Hungary
01/03/2018- 31/08/2018	Visiting Research Fellow, Thermochemistry Laboratory, Georg-August University, Göttingen, Germany
15/10/2017- 28/02/2018	Junior Research Fellow, Institute for Nuclear Research, Debrecen, Hungary
01/11/2012- 31/08/2013	Laboratory assistant, Thermochemistry Laboratory, Georg-August University, Göttingen, Germany

Education

15/10/2014- 14/10/2017	Ph.D. Student at the Bavarian Research Institute of Experimental Geochemistry and Geophysics (BGI), University of Bayreuth.
01/09/2013- 15/07/2014	Full time M.Sc. student of Geology at Eötvös Loránd University, Budapest. Degree: excellent
01/09/2012- 31/08/2013	Visiting M.Sc. student of Geosciences, Student-mobility scholarship (ERASMUS), Georg-August University (Department of Sedimentology), Göttingen
01/09/2011- 15/07/2012	Full time M.Sc. student of Geology at Eötvös Loránd University, Budapest.
01/09/2008- 15/07/2011	Full time B.Sc. student of Earth Science in Geology major at Eötvös Loránd University, Budapest. Degree: excellent

Language skills

Hungarian:	native speaker
Russian:	fluent
German:	fluent
English:	fluent
Spanish	fluent

Professional skills

Software	QGIS, CorelDRAW, MS-Office
Programming	R – advanced knowledge, most commonly used packages: dplyr, provenance, factoextra, ggplot Python – basic knowledge
Equipments used	Geological sampling, Geological mapping, Optical microscopy, Helium mass spectrometry, LA-ICP-MS, Raman spectrometry
Field	Pannonian Basin, Alps, Transylvanian Basin
Social/soft skills	Flexibility, Open-mindedness, Team-oriented personality, Long-term planning

Awards, Grants

2019	Semsey Andor Medal – granted by the Geological Society of Hungary for an outstanding publication
2018	Premium Postdoctoral Grant for three years duration, Hungarian Academy of Sciences
2017	8th Assembly of Petrology and Geochemistry, 07-09/09/2017, Szihalom, Hungary, “Best presentation” award
2016	Kriván Pál Medal Special Prize – granted by the Geological Society of Hungary for an outstanding M. Sc. thesis
2014	5th International Students Geological Conference, 24-27/04/2014, Budapest (HUN), 1st Prize XLV. Meeting of Young Geoscientists, 28-29/03/2014, Balatonföldvár, Hungary, 2nd Prize and Audience Award

Publications

Papers in peer reviewed journals

Arató, R., Dunkl, I., Obbágy, G., Józsa, S., Lünsdorf, N. K., Szepesi, J., Molnár, K., Benkó, Zs., von Eynatten, H.: Multi-method comparison of modern river sediments in the Pannonian Basin System – a key to understand the provenance of sedimentary basin-fill, *Global and Planetary Change*, under review

Obbágy, G., Dunkl, I., Józsa, S., Silye, L., **Arató, R.**, Lünsdorf, N. K., von Eynatten, H.: Paleogeographic implications of a multi-parameter Paleogene provenance dataset (Transylvanian Basin, Romania), *Journal of Sedimentary Research*, under review

Arató, R., Dunkl, I., Takács, Á., Szabó, G., von Eynatten, H. (2018): Reconstruction of the thermal evolution in the exhumed basement of a stratovolcano (2018): Thermochronology and burial history of the Palaeogene Recsk Igneous Complex, Pannonian Basin, *Journal of the Geological Society*, 175 (5), 820-835.

Arató, R. and Audétat, A. (2017): FeTiMM–A new oxybarometer for mafic to felsic magmas. *Geochemical Perspectives Letters* 5, 19-23.

Arató, R. and Audétat, A. (2017): Experimental calibration of a new oxybarometer for silicic magmas based on vanadium partitioning between magnetite and silicate melt. *Geochim. Cosmochim. Acta*, 209, 284-295.

Arató, R. and Audétat, A. (2017): Vanadium magnetite–melt oxybarometry of natural, silicic magmas: a comparison of various oxybarometers and thermometers. *Contrib. Mineral. Petrol.*, 172(7).

Book chapters

Arató, R. and Audétat, A.: Titanomagnetite–silicate melt oxybarometry, *AGU Geophysical Monographs*, accepted

Selected conference presentations

2019	Goldschmidt Conference, 18-23/08/2019, Barcelona, Spain, Poster presentation
2018	Thermo2018 Conference, 16-21/09/2018, Quedlinburg, Germany, Poster presentation
2017	Goldschmidt Conference, 13-18/08/2017, Paris, France, Oral presentation
2016	Goldschmidt Conference, 26/6-01/07/2016, Yokohama, Japan, Oral presentation
	EMPG-XV Conference, 05-08/06/2016, ETH Zürich, Switzerland, Oral presentation
	European Geosciences Union (EGU) Conference 2016, 17-22/04/2016, Vienna, Austria, Oral presentation
2014	5th International Students Geological Conference, 24-27/04/2014, Budapest Hungary, Oral presentation

Public outreach

01/09/2018-	Member of the “Popular Science Team” , Institute for Nuclear Research (Hungary). The activity encompasses popular-scientific lectures given to school-classes in Hungarian and German language as well as irregularly organized lab-tours given to interested individuals of any age and background.
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Hobbies and further interests

Rock-climbing, foreign languages, classical music, hiking, alpine skiing, ice-skating

Debrecen, January 4th 2021