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Avishai Abbo, Ph.D. Candidate

Personal Information:

Date of Birth: 17/5/1985

Place of Birth: Israel

Education:

Oct 2009 – Jun 2012 Hebrew University of Jerusalem
B.Sc, Earth Sciences, Geology
Jerusalem, Israel

Oct 2012 – Jun 2014 Hebrew University of Jerusalem
M.Sc, Geology
Jerusalem, Israel

Oct 2014 and onwards Hebrew University of Jerusalem
Ph.D. studies, Geology
Jerusalem, Israel

M.Sc. thesis: Neoproterozoic (Cadomian) basement and Paleozoic to Triassic siliciclastics in the Tauride Block (Karacahisar dome, south-central Turkey): constraints on the Gondwana-Tauride relationships from U-Pb-Hf in Zircons. Supervisor: Prof. Dov Avigad.

Ph.D. thesis (in preparation): Crustal evolution of Cadomian-Avalonian terranes and their transition to Gondwana in the East-Mediterranean area. Supervisor: Prof. Dov Avigad.

Awards:

2011-2012: Included on the Dean's List for outstanding students, at the Faculty of Science and Mathematics, Hebrew University.

2013: Recipient of a Minerva Short-Term research grant for Germany

2014: Winner of Luxemburg scholarship for outstanding M.Sc students in HUJI.

2015: Recipient of Departmental excellence award in memory of Menachem Shraga and Theodor Dicker (HUJI, Earth Sciences).

2016-2019: Recipient of an Azrieli Fellowship for Academic Excellence and Leadership from the Azrieli Foundation.

Publications:

Journal Articles:

Abbo, A., Avigad, D., Gerdes, A., Güngör, T., 2015. Cadomian basement and Paleozoic to Triassic siliciclastics of the Taurides (Karacahisar dome, south-central Turkey): Paleogeographic constraints from U-Pb-Hf in zircons. *Lithos* 227, 122–139. doi:10.1016/j.lithos.2015.03.023

Avigad, D., Abbo, A., Gerdes, A., 2016. Origin of the Eastern Mediterranean: Neotethys rifting along a cryptic Cadomian suture with Afro-Arabia. *Geol. Soc. Am. Bull.* 128, 1286–1296. doi:10.1130/B31370.1

Avigad, D., Morag, N., Abbo, A., Gerdes, A., 2017. Detrital rutile U-Pb perspective on the origin of the great Cambro-Ordovician sandstone of North Gondwana and its linkage to orogeny. *Gondwana Res.* 51, 17–29. doi:https://doi.org/10.1016/j.gr.2017.07.001

Avigad, D., Rossi, P., Gerdes, A., Abbo, A., 2018. Cadomian metasediments and Ordovician sandstone from Corsica: detrital zircon U–Pb–Hf constrains on their provenance and paleogeography. *Int. J. Earth Sci.* doi:10.1007/s00531-018-1629-3

Abbo, A., Avigad, D., Gerdes, A., 2018. The lower crust of the Northern broken edge of Gondwana: Evidence for sediment subduction and syn-Variscan anorogenic imprint from zircon U-Pb-Hf in granulite xenoliths. *Gondwana Res.* 64, 84–96. doi:10.1016/j.gr.2018.08.002

Conference Publications:

Avishai Abbo, Dov Avigad, Axel Gerdes, Talip Güngör (2014): Crustal evolution and provenance of the Tauride (southern Turkey) basement and cover. IGS Annual meeting, Dead Sea; 03/2014 (oral presentation)

Avishai Abbo, Dov Avigad, Axel Gerdes Talip Güngör (2015): Inferences on the Cadomian tectonic setting recorded in the Tauride block. IGS Annual meeting, Kinneret; 03/2015 (poster)

Avishai Abbo, Dov Avigad, Axel Gerdes, Talip Güngör (2015): Cadomian paleogeography and tectonic setting as recorded in the Tauride block (Turkey). Goldschmidt 2015, Prague; 08/2015 (oral presentation)

Avishai Abbo, Dov Avigad, Axel Gerdes (2016): Lower crustal xenoliths of Northern Israel: zircon evidence for deeply-buried sediments, Paleozoic metamorphism and ca. 300 Ma magmatism. IGS Annual meeting, Eilat; 01/2016 (oral presentation)

Avishai Abbo, Dov Avigad, Axel Gerdes (2017): Crustal Evolution of the Balkan: Episodic igneous activity and crustal recycling of Peri-Gondwana European terranes revealed from zircons and rutiles in basement rocks and river sediments. Goldschmidt 2017, Paris; 08/2017 (oral presentation)

Avishai Abbo, Dov Avigad, Axel Gerdes (2017): Episodic igneous activity and crustal recycling in the Balkan: evidence from zircons and rutiles in basement rocks and river sediments of northern Greece. 13th Workshop on Alpine Geological Studies – Émile Argand Conference (EGU Series) Zlatibor, Serbia (oral presentation)

Avishai Abbo, Dov Avigad, Axel Gerdes (2018): The North Gondwana lower crust: Evidence for sediment subduction and syn-Variscan magmatism from zircons in mafic granulite xenoliths. TSK Jena 2018, 17th Symposium of Tectonics, Structural Geology and Crystalline Geology Jena, Germany. (oral presentation)

Avishai Abbo, Dov Avigad, Axel Gerdes (2018): Tracking the evolution of Balkan crust: Episodic magmatism and peri-Gondwana crustal recycling from zircons and rutiles in basement rocks and beach placers. EGU 2018, Vienna; 04/2018 (poster)

Avishai Abbo, Dov Avigad, Axel Gerdes (2018): The lower crust of the Northern Arabian Shield (N Israel): Neoproterozoic sediment subduction and syn-Variscan thermal imprint from U-Pb-Hf in zircons from granulite xenoliths. EGU 2018, Vienna; 04/2018 (poster)

Employment History:

2009-2012 – Research assistant in a geochemical laboratory at the Hebrew University

2011-2014 – Guide and content development at the Bloomfield Science Museum, Jerusalem

2012 and onwards – Teaching assistant at the institute of earth sciences, Hebrew University

Courses: Global Tectonics, Optical Mineralogy, Basic Geological Mapping (field excursion), The development of the Precambrian basement of Israel (field excursion), Mapping of igneous and metamorphic rocks in Eilat (field excursion).

Research Interests:

Basement geology, Continental Crust, Global Tectonics, Paleo-Tectonic Reconstructions, Crustal Evolution, Igneous and Metamorphic rocks, Provenance, Geochronology, Zircon U-Pb-Hf studies, Precambrian tectonics and geodynamics.