Daniel Palchan - Curriculum Vitae October 2020

Personal Details

Name:	Daniel Palchan
Born:	1982, Jerusalem, Israel.
I.D:	052968195
Military service:	Non commanding officer at the IDF artillery in active service
(2000-	2003)
Phone:	+972-50-8648435.
Email:	danielp@ariel.ac.il

Education

B.Sc.	2005-2008 - the Hebrew University of Jerusalem - Department of Earth Sciences.
M.Sc.	2009-2011 - the Hebrew University of Jerusalem - Department of Earth Sciences. Yigal Erel; Mordechai Stein; Ahuva Almogi-Labin. *Red Sea Dust provenance during the end of the Quaternary*.
PhD	2012-2017- the Hebrew University of Jerusalem - Department of Earth Sciences. Yigal Erel; Mordechai Stein. *Sources and modes of transport of fine detritus to the Dead Sea.*

Employment History

2020	Teaching reclamation of polluted soils course at the Azrieli College of Engineering, Jerusalem.
2019-	Tenure track as professor of geology in the Civil Engineering department of Ariel University.
2019-	Consultant at Roved Geology.
2019	Geologist at Geo-Prospect Ltd. Providing environmental and geological consulting.
2018- 2019	Post doc at IPGP Paris. *Investigating the role of distant dust in the formation of soils in Reunion Island*.
2017-2018	Post doc at IUI Eilat. *Implementing Th isotopes study in the Red Sea.*
2012-2015	T.A introduction to geology (Teaching excellence award for 2015)

Employment History (continued)

2011-2012	Summer science camp instructor.
2010-2011	ICDP (Dead Sea) Shift manager aboard the rig
2009-2010	Excavations assistant in Ateret, Israel.
2008-2010	Hebrew University Research assistant in the subject of earthquakes including field work and speleothems cave exploration.
1998-2000	Outdoor hiking instructor for youth.

Professional activity

(a) 2020 – Lecturer in Civil Engineering dep. University of Ariel.
(c) 2019 – Consultant at Roved Geology for tunneling and rock mass classification.
(f) 2020 – Geochemical Society.
2020 – Israeli Association of Construction & Infrastructure Engineers.

Educational activities

(a) Geology for engineers – 3rd and 4th years – University of Ariel.
Soils reclamation – 3rd year – Azrieli College of Engineering.
Introduction to geology – 1st year – Hebrew University of Jerusalem (jointly taught).

Scientific publications

Doctoral Dissertation

1. "Fine detritus from the Dead Sea deep core: origins, ways of transport and modes of deposition", Mordechai Stein, Yigal Erel, 11th June 2018.

Chapter in Collections

1. Erel, Y [PI]., Goldstein, S.L [C]., Torfstein, A [PD,C]., **Palchan, D [S].,** Ben-Israel, M [S]., Stein, M [C,PI]., 2017. Isotopic tracers of dust and loess in the Levant, in: Enzel, Y., Ofer, B.-Y. (Eds.), Quaternary of the Levant: Environments, Climate Change, and Humans. Cambridge University Press.

Peer reviewed journal papers

1. **Palchan, D.,** Stein, M., Almogi-Labin, A., Erel, Y., Goldstein, S.L.L. (2013). Dust transport and synoptic conditions over the Sahara–Arabia deserts during the MIS6/5 and 2/1 transitions from grain-size, chemical and isotopic properties of Red Sea cores. Earth Planetary Science Letters.
2. Gross, A*., **Palchan, D*.**, Krom, M.D., Angert, A. (2016). Elemental and isotopic composition of surface soils from key Saharan dust sources. Chemical Geology.
3. **Palchan, D.,** Neugebauer, I., Amitai, Y., Waldmann, N.D., Schwab, M.J., Dulski, P., Brauer, A., Stein, M., Erel, Y., Enzel, Y. (2017). North Atlantic

controlled depositional cycles in MIS 5e layered sediments from the deep Dead Sea basin. Quaternary Research.

4. **Palchan, D.,** Stein, M., Goldstein, S.L., Almogi-Labin, A., Tirosh, O., Erel, Y. (2018). Synoptic conditions of fine-particle transport to the last interglacial Red Sea-Dead Sea from Nd-Sr compositions of sediment cores, Quaternary Science Reviews.
5. **Palchan, D**., Erel, Y., Stein, M. (2018). Geochemical characterization of contemporary fine detritus in the Dead Sea watershed, Chemical Geology.
6. **Palchan, D**., Torfstein, A. (2019). A drop in Sahara dust fluxes records the northern limits of the African Humid Period, Nature communications.