Bar Oryan

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Sep 2016 —
Current
July 2014 -
July 2016
<i>Jy</i>
Oct 2010-
Jun 2014

Publications

- Oryan, B., & Buck, W. R. (2020). Larger tsunamis from megathrust earthquakes where slab dip is reduced. Nature Geoscience, 1-6.
- Oryan, B., Villinger, H., Lazar, M., Schwab, M. J., Neugebauer, I., & Ben-Avraham, Z. (2019). Heat flow in the Dead Sea from the ICDP boreholes and its implication for the structure of the basin. Quaternary Science Reviews, 210, 103-112.
- Malinverno, A., Cook, A. E., Daigle, H., & Oryan, B. (2018). Glacial cycles influence marine methane hydrate formation. Geophysical Research Letters, 45(2), 724-732.

In Preparation:

- **Oryan B**. & Savage H., Evidence for a weak Dead Sea Transform fault from revaluation of heat flow values in its proximity.
- Oryan B., M.S. Steckler, D. R. Mondal, S.H. Akhter, S. Singha, The Indo-Burma Detachment Geometry Constrained by an Updated Vertical and Horizontal GPS Velocity Field in Bangladesh.

Awards	&	Grants
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Chevron Student Incitive Fund.	2020
"Developing the LDEO PhenoCam network to track the fate of forest carbon from	
photosynthesis to growth" (\$3,200). • Chateaubriand Fellowship.	2020
Four months of support to work with Dr. Jean-Arthur Olive at the Laboratoire de Géologie de l'Ecole Normale Supérieure (ENS).	2020
• Stroke Fund. Dept. of Earth and Environmental Sciences graduate student fieldtrip to Peru (\$12,500).	2019
Dean's fellow, Department of Earth and Environmental Sciences, Columbia University.	2016
M.Sc. Excellence Scholarship, Tel Aviv University.	2015
eaching Experience	
 Instructor, Stroke Field Course, Department of Earth and Environmental Sciences, Columbia university. Led and organized a geological field trip to Peru. 	Summer 2019
Teaching assistant, Life Systems, Department of Earth and Environmental Sciences, Columbia University.	Spring 2019
• Teaching assistant, Geodynamics, Department of Earth and Environmental Sciences, Columbia University.	Fall 2018
• Teaching assistant, Lab in Geosciences, Tel Aviv University. Designed and developed a lab experiment emulating the heat flow of the Earth for an undergrad class.	Fall 2015
• AP calculus and electromagnetism tutor, undergrad students, Tel Aviv University.	Fall 2014
Elementary school science teacher, Kathmandu, Nepal.	Winter 2010
eld Work	
HT-RESIST EM research cruise, New Zealand. Deployment and recovery of 120 EM receivers as well as 500 line-km of EM source.	Winter 2019
 Borehole temperature profile measurements, Dead Sea, Israel. ICDP Dead Sea borehole temperature measurement. 	Summer 2015
• Thermal conductivity measurements, IODP core repository, Bremen, Germany. Thermal conductivity measurements of the ICDP Dead Sea cores using KD2 pro probe and optical apparatus.	Summer 2014
utreach	2010
Permanent science writer at the Little Big Science NGO.	
 Permanent science writer at the Little Big Science NGO. Lamont Doherty research as art committee. 	2018 - current 2018

Other Professional Experience

•	Oracle data base administrator, Visa Cal Ltd.	2011-2014
•	Oracle data base administrator, Glasshouse Ltd.	2007-2009
•	Oracle data base administrator. Israeli defense forces	2004-2007

Computational Skills

Programming langu	uages:		Operating systems:	:
 Python. 	 Matlab. 	• Arduino.	 Linux. 	 Windows.
• C.	• Fortran.	• GPU CUDA Fortran.	• Mac.	

Languages

Hebrew (native).
English (proficient).