CURRICULUM VITAE

PERSONAL INFORMATION

Family name, First name: **Ryb Uri**

Researcher unique identifier(s):
https://scholar.google.com/citations?user=4Z_w4DUAAAAJ&hl=en

EDUCATION

2015 PhD, Institute of Earth Sciences, Hebrew University of Jerusalem, Israel (advisors: Ari Matmon and Yigal Erel).
Thesis: The effects of climate and tectonic activity on denudation in carbonate terrains

2008 M.Sc., Institute of Earth Sciences, Hebrew University of Jerusalem, Israel (advisors: Alan Matthews and Yigal Erel). Magna cum laude
Thesis: Epigenetic mineralization phenomena along the Northern Negev anticlines and their associated geochemical anomalies

2004 B.Sc., Institute of Earth Sciences, Hebrew University of Jerusalem, Israel. Magna cum laude.

CURRENT POSITION

2018 – present Senior lecturer (equivalent to tenure-track assistant professor), Faculty of Sciences, Institute of Earth Sciences, The Hebrew University of Jerusalem, Jerusalem, Israel

PREVIOUS POSITIONS

2014 – 2018 Postdoctoral Scholar in Geochemistry, Division of Geological and Planetary Sciences, California Institute of Technology, CA, USA (host: John Eiler)

FELLOWSHIPS AND AWARDS

2014 – 2016 O.K. Earl Fellow, Division of Geological and Planetary Sciences, California Institute of Technology
2015 Bentor Award (Best PhD dissertation), Institute of Earth Sciences, Hebrew University of Jerusalem
2014 – 2015 Kreitman Fellow, Ben Gurion University of the Negev (declined)
2010 – 2014 Kaye-Einstein Fellow, Institute of Earth Sciences, Hebrew University of Jerusalem
2009 M.Sc., Graduated *Magna Cum Laude*, Institute of Earth Sciences, Hebrew University of Jerusalem
2007 Diker-Shraga Award (Best research student), Institute of Earth Sciences, Hebrew University of Jerusalem
2004 B.Sc., Graduated *Magna Cum Laude*, Institute of Earth Sciences, Hebrew University of Jerusalem

TEACHING ACTIVITIES

2018 – Teaching "Basic geological mapping" (undergraduate) course
2016 – 2017 Advisor - Summer Undergraduate Research Fellow, Caltech
2005 – 2013 Teaching assistant for "Rocks and minerals", "Mineralogy and petrology", "Summer Field Camp", "Dead Sea Rift field-trip", "Rock Tales: planet Earth and us", "Introduction to Geology", "Basic geological mapping", "Geological mapping - extended"

(undergraduate), "Geology and geophysics of the marine environment" and "GIS applications in Earth sciences" (senior undergraduate/graduate), Institute of Earth Sciences, Hebrew University of Jerusalem

ORGANISATION OF SCIENTIFIC MEETINGS

2010 Member of scientific organizing committee: Israel Geological Society annual meeting (300 participants)

COMMISSIONS OF TRUST

Reviewer for: Geology, Tectonophysics, Geomorphology, Geochimica et Cosmochimica Acta, Croatian Science Foundation

INSTITUTIONAL RESPONSIBILITIES

2009 – 2014 Organizer of the Internal Seminar ("Geo-Tech"), Hebrew University of Jerusalem

FUNDING OBTAINED

2016 – 2018 National Science Foundation, Award EAR1624827 - "Burial, Uplift and Exhumation History of the Colorado Plateau" (author of proposal; official PI is John Eiler), 313200 Euros

2010 – 2014 Israeli Science Foundation, Grant 50/10 "Linking structural evolution and landscape development across an arch-type rift margin: the Judea Hills and the Judea Desert, Central Israel" (author of proposal; official PI is Ari Matmon), 171000 Euros

PEER REVIEWED PUBLICATIONS

Ryb U. and Eiler J. M., 2018: Oxygen isotope composition of the Phanerozoic ocean and a possible solution for the dolomite problem. *Proceedings of the National Academy of Sciences,* v. 115 p. 6602-6607.

Lloyd M. K.., **Ryb U**., Eiler J. M., *2018*: Experimental calibration of clumped isotope reordering in dolomite. *Geochimica et Cosmochimica Acta,* v. 242 p. 1-20.

Ryb U., Lloyd M. K., Stolper D. A., and Eiler J. M., 2017: The clumped-isotope geochemistry of exhumed marbles from Naxos, Greece. *Earth and Planetary Science Letters*, v. 470, p. 1-12.

Levenson Y., **Ryb U**., and Emmanuel S., 2017: Comparison of field and laboratory weathering rates in carbonate rocks from an Eastern Mediterranean drainage basin. *Earth and Planetary Science Letters*, v. 465, p. 176-183.

Ryb U., Matmon A., Haviv I., and Benedetti L., 2015. Exhumation and uplift coupled with precipitation along the western Dead-Sea Rift margin. *Geology*, v. 43, p. 483-486.

Placzek C., Granger D. E., Matmon A., Quade J., and **Ryb U**., 2014. Geomorphic process rates in the central Atacama Desert, Chile: insights from cosmogenic nuclides and implications for the onset of hyperaridity. *American Journal of Science*, v. 314 (10), p. 1462-1512.

Ryb U., Matmon A., Erel Y., Haviv I., Benedetti L., and Hidy A.J., 2014. Styles and rates of long-term denudation in carbonate terrains under a Mediterranean to hyper-arid climatic gradient: *Earth and Planetary Science Letters*, v. 406, p. 142-152.

Ryb U., Matmon A., Erel Y., Haviv I., Katz A., Starinsky A., Angert A., and ASTER Team, 2014. Controls on denudation rates in tectonically stable Mediterranean carbonate terrain: *Geological Society of America Bulletin*, v. 126, p. 553-568.

Ryb U., Matmon A., Porat N., Katz O., 2013. From mass-wasting to slope stabilization putting constrains on a tectonically induced transition in slope erosion mode: a case study in the Judea Hills, Israel: *Earth Surface Processes and Landforms* v. 38, 551-560.

Ryb U., Erel Y., Matthews A., Avni Y., Gordon W. G., and Anbar D. A. 2009, Large molybdenum isotope variations trace subsurface fluid migration along the Dead Sea transform: *Geology*, v. 37, p. 463–466.

INVITED SEMINARS

- *The oxygen isotope composition of the Phanerozoic ocean and a possible solution to the dolomite problem.* (presented at UCLA, U. Victoria, Weizmann Inst., 2018)
- *The clumped isotope geochemistry of exhumed marble from Naxos, Greece.* (Caltech, 2017)
- *Interactions between denudation and climate in carbonate terrains.* (LDEO-Columbia, 2016)
- *Applying carbonate clumped-isotope thermometry to study basin geodynamics* (Weizmann, HUJI, 2016)
- *Landscape evolution in carbonate terrains.* (Caltech, 2013; BGU, Geol. Survey of Israel, 2014)
- *From mass-wasting to slope-stabilization – putting constraints on tectonically induced transition in hillslope erosion mode.* (CEREGE-France, 2011)

SELECTED CONFERENCE PRESENTATIONS

Ponton C., **Ryb U**., Eiler J. M., France-Lanord C., Yoshida K., 2019, Carbonate clumped isotope compositions through the sedimentary cycle – from the Himalayas to the Bay of Bengal: 7th International Clumped-Isotopes Workshop, Los Angeles.

Ryb U., and Eiler J. M. 2017, Paleozoic-Mesozoic dolomitization of the Colorado Plateau by deep circulation of sea-water: Goldschmidt meeting, Paris.

Ryb U., Lloyd M. K., and Eiler J. M. 2017, Constraining peak-burial temperatures of the Colorado Plateau using the natural variability of carbonate clumped-isotope compositions: 6th International Clumped-Isotopes Workshop, Paris.

Ryb U., Lloyd M. K., and Eiler J. M. 2016, Carbonate clumped-isotope constraints on the burial and exhumation history of the Colorado Plateau: AGU fall meeting, San Francisco.

Ryb U., Matmon A., Erel Y., Haviv I., and Benedetti L., 2016 Exhumation and uplift coupled with precipitation along the western margin of the Dead Sea Rift: GSA annual meeting, Denver.

Ryb U., Farley K. A., Lloyd M. K., Stolper D. A., and Eiler J. M. 2016, Dynamic recrystallization of calcite marbles can reset Δ_{47} values: 5th International Clumped-Isotopes Workshop, St. Petersburg, FL.

Ryb U., Eiler J. M., Farley K. A., Stolper D. A., and Lloyd M. K. 2015, The Clumped-Isotope Geochemistry of Marble Exhumation: Goldschmidt meeting, Prague.

Ryb U., Matmon A., Erel Y., Haviv I., and Benedetti L. 2013, Differential denudation across the Judea Range, Israel, suggests the persistence of a rain-shadow since mid Miocene: AGU fall meeting, San Francisco.

Ryb U., Matmon A., Erel Y., Haviv I., and Benedetti L. 2013, Variations in modes and rates of long-term denudation in carbonate terrains under Mediterranean to hyper-arid climates: Goldschmidt meeting, Florence.

Ryb U., Matmon A., Erel Y., Katz A., Starinsky A., and Benedetti L. 2012, Denudation of carbonate terrains in the Mediterranean climate: insights from 36Cl measurements in the Soreq drainage, Judea Hills, Israel: GSA annual meeting, Charlotte.

Ryb U., Matmon A., Porat N., and Katz O. 2012, From mass wasting to slope stabilization - putting constrains on the transition in slope erosion mode: A case study in the Judea Hills, Israel: EGU2012-3613.