

Volkan Özen

volkan.oezen@mfn.berlin

*Museum für Naturkunde, Leibniz-Institut für Evolutions- und Biodiversitätsforschung
Berlin, Germany*

Education

Freie Universität Berlin, Museum für Naturkunde Berlin Germany

The Southern Ocean diatoms across the Eocene/Oligocene transition. 2023

Supervisor: Dr. David Lazarus

Ludwig Maximilian Universität (LMU) München Germany

Thesis: The Jurassic fossil records of tetrapods: patterns and bias. 2018

Supervisor: Dr. Oliver Rauhut

Istanbul Technical University Turkey

Engineering Geology 2016

Research Experience

Ludwig Maximilian Universität Munich Nov 2017 – Mar 2018

Supervisor: Dr. Oliver Rauhut

The Jurassic fossil records of mammals: implications for mammal evolution and diversity patterns.

The Bavarian State Collection of Zoology- LMU Munich May-Aug 2017

Supervisor: Dr. Nicola Heckeberg

Skull morphology and morphometrics analysis of genus *Mazama* (Mammalia)

Yale University - Bhullar Lab Jun-Aug 2016

Supervisor: Dr. Bhart-Anjan Bhullar and Dr. Adam Pritchard

Skull morphology and phylogeny of Lower Permian reptile *Araeoscelis*.

European Center of Prehistory, Tautavel/France Jan-Feb 2015

Supervisor: Dr. Sophie Grégoire and Dr. Loic Lebreton

Faunal reconstruction of the Arago Cave.

Yale University - Hull Lab Jul-Sep 2014

Supervisor: Dr. Pincelli Hull and Dr. Micheal Henehan

Boron isotope records across the K-Pg boundary.

Institute de Paleontologie Humaine, Nice/France Jan-Feb 2015

Prehistoric cave excavation, stone tool analyzing, sediment granulometry, bone restoration.

Supervision and Teaching

Julia Hunter, *Universität Oldenburg* 2021 - ongoing

Size dynamics of the Southern Ocean diatom communities across the Eocene/Oligocene transition. - co-supervised with Dr. David Lazarus

David M. Raup Lecture Series, Istanbul Technical University 2015

A lecture series for the honor of David Malcom Raup

First Lecture: Mass extinctions, historical background.

Second Lecture: Signor-Lips effect and stratigraphy of mass extinctions.

Third Lecture: Life in the aftermath of mass extinctions.

Publications

Identification of growing microorganisms in marine sediments under oxic and anoxic conditions through H₂¹⁸O quantitative DNA stable isotope probing

Ömer K. Coskun, **Volkan Özen**, Scott D. Wankel, William D. Orsi.

Nature ISME 2019 (DOI: <https://doi.org/10.1038/s41396-019-0373-4>) 2019.

Southern Ocean diatom diversity across the Eocene-Oligocene transition

Volkan Özen, Gabrielle Rodrigues de Faria, Johan Renaudie, and David B. Lazarus. *TMS Annual Meeting*, 2020.

Cenozoic plankton diversity dynamics and the impact of macroevolution on the marine carbon cycle

Johan Renaudie, David Lazarus, Sarah Trubovitz, **Volkan Özen**, Gabrielle Rodrigues de Faria, Gayane Asatryan, and Paula Noble. *EGU*, 2020.

Investigating the role of Southern Ocean phytoplankton in the end-Eocene climatic events

Volkan Özen, Gabrielle Rodrigues de Faria, Gayané Asatryan, Johan Renaudie, and David B. Lazarus. *Jahrestagung der Paläontologischen Gesellschaft* 2019.

Interrogating the Palaeocene Palaeoclimate Paradox

Michael J. Henahan, James Barnet, Noah J. Planavsky, Kate Littler, Mathis P. Hain, Ellen Thomas, **Volkan Özen**, Friedhelm von Blanckenburg, Pincelli M. Hull. *Goldschmidt*, 2019.

Between a rock and a hard place: The history of Palaeocene ocean pH

Michael J. Henahan, Pincelli M. Hull, Noah J. Planavsky, Ellen Thomas, **Volkan Özen**. *Goldschmidt*, 2015.

Popular Science:

Volcanism on Mars; Tharsis Region. **Volkan Özen**, 2016 (Turkish Astronomical Society 'Gökyüzü' (Sky) Magazine, March-April 2016)

Geology of Enceladus. **Volkan Özen**, 2015 (Turkish Astronomical Society Gökyüzü (Sky) Magazine, December 2015)

Geology of Venus; Evidence of Active Volcanism.” **Volkan Özen**, 2015 (Turkish Astronomical Society Gökyüzü (Sky) Magazine, September 2015)

Pluton and It’s Geological Wonders. **Volkan Özen**, 2015 (Turkish Astronomical Society Gökyüzü (Sky) Magazine, August 2015)

Schools/Workshops

School in Algorithms, Combinatorics, and Complexity online
St Petersburg University May 2021
An advanced school of algorithms and computational complexity.

Science Communication and Public Engagement online, Germany
Humboldt-Universität zu Berlin May 2021

The KI-Camp 2021 online, Germany
the Federal Ministry of Education and Research (BMBF) April 2021
Multidisciplinary machine learning camp organized by the BMBF and the the German Informatics Society (GI) - kicamp.org/about

Summer School on Foundations in Quantitative Palaeontology online
Helsinki University May 2020
One week quantitative paleobiology school.

3rd Mathematical Evolution Summer School Izmir, Turkey
Ecology and Evolution Society Turkey Sep 2015

Programming skills

Proficient in: **Julia** programming language, **Python** programming language.
Familiar with: R programming language.

References

Dr. David B. Lazarus - Museum für Naturkunde Berlin, Germany
david.lazarus@mfn.berlin

Jakub Witkowski - University of Szczecin, Poland
jakub.witkowski@univ.szczecin.pl

Dr. Ulrich Struck - Museum für Naturkunde Berlin, Germany
ulrich.struck@mfn.berlin

Dr. Michael Henehan - Helmholtz Center Potsdam, Germany
michael.henehan@gfz-potsdam.de