

Volkan Özen

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

Education	Freie Universität Berlin, Museum für Naturkunde Berlin - PhD The Southern Ocean diatoms across the Eocene/Oligocene transition.	Germany Feb 2025
	Ludwig Maximilian Universität (LMU) München <i>Thesis:</i> The Jurassic fossil records of tetrapods: patterns and bias. Supervisor: Dr. Oliver Rauhut	Germany 2018
	Istanbul Technical University Engineering Geology	Turkey 2016
Grants/Scholarships	ECORD Scholarship Scholarship to participate <i>ECORD Urbino Summer School in Paleoclimatology</i> .	2022
	LinnéSys: Systematics Research Fund Genus <i>Pyxilla</i> (<i>Bacillariophyta</i>): Systematics and end-Eocene events	2021
Expeditions	International Ocean Discovery Program: Expedition 400 Cenozoic evolution of the northern Greenland Ice Sheet exposed by transect drilling in north-east Baffin Bay. Diatomist.	Aug-Oct 2023
Previous Research Experience	Ludwig Maximilian Universität Munich <i>Supervisor:</i> Dr. Oliver Rauhut The Jurassic fossil records of mammals: implications for mammal evolution and diversity patterns.	Nov 2017 – Mar 2018
	The Bavarian State Collection of Zoology- LMU Munich <i>Supervisor:</i> Dr. Nicola Heckeberg Skull morphology and morphometrics analysis of genus <i>Mazama</i> (Mammalia)	May-Aug 2017
	Yale University - Bhullar Lab <i>Supervisor:</i> Dr. Bhart-Anjan Bhullar and Dr. Adam Pritchard Skull morphology and phylogeny of Lower Permian reptile <i>Araeoscelis</i> .	Jun-Aug 2016
	European Center of Prehistory, Tautavel/France <i>Supervisor:</i> Dr. Sophie Grégoire and Dr. Loic Lebreton Faunal reconstruction of the Arago Cave.	Jan-Feb 2015
	Yale University - Hull Lab <i>Supervisor:</i> Dr. Pincelli Hull and Dr. Micheal Henehan Boron isotope records across the K-Pg boundary.	Jul-Sep 2014
	Institute de Paleontologie Humaine, Nice/France Prehistoric cave excavation, stone tool analyzing, sediment granulometry, bone restoration.	Jan-Feb 2015
Supervision	<u>Julia Hunter</u>, Universität Oldenburg	2024

and Teaching

Master Thesis (completed): Exploring diatom size dynamics: Insights from the Eocene/Oligocene Transition in the Southern Ocean and Equatorial Atlantic. Co-supervising with Dr. Holger Freund.

Research Project (completed - 2023): Size dynamics of the Southern Ocean diatom communities across the Eocene/Oligocene transition.

David M. Raup Lecture Series, Istanbul Technical University

2015

A lecture series in 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/ (selected)
Conference Abstracts

Unraveling Southern Ocean Diatom Diversity Across the Eocene/Oligocene Transition

- **Volkan Özen**, Johan Renaudie, and David Lazarus

submitted to the Journal of Micropaleontology 2025

IODP Expedition 400 Preliminary Report - Paul C. Knutz, Anne Jennings, Laurel B. Childress, and the Expedition 400 Scientists

IODP Publications 2024

Late Eocene to early Oligocene productivity events in the proto-Southern Ocean as drivers of global cooling and Antarctica glaciation - Gabrielle Rodrigues de Faria, David Lazarus, Johan Renaudie, Jessica Stammeier, **Volkan Özen**, and Ulrich Struck

Climate of the Past 2024

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

Marine diatom response to the Eocene-Oligocene climatic events - **V. Özen**, G. Fraria, J. Renaudie, D. Lazarus, A. Gayane *CBEP 2022*

Carbon Cycling at the Dawn of the Cenozoic - M. Henehan, J. Barnet, B. Kalderon-Asael, **V. Özen**, J. Rae, A. Ridgwell, S. Greene, E. Thomas, K. Littler, M. Hain, J. Witts, N. Planavsky, F. von Blanckenburg, P. Hull *ICP 2022*

A compilation of stratigraphic occurrences of diatomite through the Paleogene: implications for paleoclimate, silicate weathering, and carbon burial in shallow marine environments - C. Figus, A. Gladenkov, T. Oreshkina, **V. Özen**, J. Renaudie, P. Siver, J. Witkowski *CBEP 2022*

Insights into the Paleocene Carbon Cycle from Boron Isotopes - M. Henehan, J. Barnet, **V. Özen**, P. Hull, N. Planavsky, A. Ridgwell, J. Rae, K. Littler, M. Hain, E. Thomas, S. Greene, F. von Blanckenburg *CBEP 2022*

Southern Ocean diatoms across the Eocene/Oligocene Transition - **Volkan Özen**, Gabrielle R. de Faria, Johan Renaudie, and David Lazarus. *CPEG 2021*

Southern Ocean Diatom Size Dynamics and the end-Eocene Paleoproductivity - Julia Hunter, **Volkan Özen**, Gabrielle R. de Faria, Johan Renaudie, David Lazarus. *CPEG 2021*

Climatic range of modern fossilizable phytoplankton - Johan Renaudie, David Lazarus, **Volkan Özen**, Gabrielle R. de Faria, Sarah Trubovitz. *CPEG 2021*

Biological Productivity in the Southern Ocean across the Eocene-Oligocene transition - Gabrielle R. de Faria, **Volkan Özen**, David Lazarus, Ulf Struck, Johan Renaudie, Gayane Asatryan. *GeoKarlsruhe 2021*

Southern Ocean diatom diversity across the Eocene-Oligocene transition - **Volkan Özen**, Gabrielle R. 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. Henehan, James Barnett, 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. Henehan, 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 Its Geological Wonders. **Volkan Özen**, 2015 (Turkish Astronomical Society Gökyüzü (Sky) Magazine, August 2015)

Invited Talks

IODP EXP400 Greenland Glaciated Margin: Preliminary Results

CDP-IODP Colloquium 18 Germany
Bremerhaven (DE)

November 2024

Diatom diversity and paleoproductivity history across The Eocene-Oligocene Transition

Keynote - TMS 6th Silicofossil and Palynology Meeting
Northumbria University (UK)

June 2022

Programming

Proficient in **Python** and **Julia** programming languages.

Schools/Workshops

Complexity-GAINS International School -by Santa Fe Complexity Institute France
This cutting-edge summer school focuses on mathematical modeling to explore ecological stability, resilience, and biodiversity across scales, from life's origins to the Anthropocene, integrating complex systems approaches to address the future of the biosphere. October 2024

ECORD Urbino Summer School in Paleoclimatology (USSP) Italy
ECORD summer school on deep-time climate dynamics. July 2022

ECORD Downhole logging for IODP Science Summer School online
ECORD - University of Leicester September 2021
One week petrophysics summer school introduces the interpretation and applications of downhole logs and physical property data.

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 AI-Camp 2021 online, Germany
the Federal Ministry of Education and Research Germany (BMBF) April 2021
Multidisciplinary machine learning camp organized by the BMBF and 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

Others

Behind Open Doors (movie) - Assistant Director Berlin
Winner: Best Director in the Golden Boll Film Festival in Adana (Türkiye) 2022-2023

References

Dr. Helen Coxall - Stockholm University, Sweden
helen.coxall@geo.su.se

Dr. Michael J. Henehan - University of Bristol, UK
michael.henehan@bristol.ac.uk

Dr. Johan Renaudie - Museum für Naturkunde Berlin, Germany
lecoryphee@googlemail.com