

# 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** Germany

The Southern Ocean diatoms across the Eocene/Oligocene boundary 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 boundary. - 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 H<sub>2</sub><sup>18</sup>O 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](http://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](mailto:david.lazarus@mfn.berlin)

**Dr. Ulrich Struck** - Museum für Naturkunde Berlin, Germany  
[ulrich.struck@mfn.berlin](mailto:ulrich.struck@mfn.berlin)

**Dr. Michael Henehan** - Helmholtz Center Potsdam, Germany  
[michael.henehan@gfz-potsdam.de](mailto:michael.henehan@gfz-potsdam.de)