

# Volkan Özen

Museum für Naturkunde  
Leibniz-Institut für Evolutions- und Biodiversitätsforschung  
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## EDUCATION

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<b>2016 - 2018</b>	<b>MSc, Ludwig Maximilian University of Munich, Germany</b>
<b>2011 - 2016</b>	<b>Istanbul Technical University, Faculty of Mine, Geological Engineering Department</b>

## RESEARCH

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<b>April 2018 - September 2018</b>	<b>Paleo-Geobiology Department, LMU Munich</b>  <i>(Thesis) The Jurassic fossil records of tetrapods (PaleoDB): patterns and bias. (Supervisor: Prof. Oliver Rauhut)</i>
<b>November 2017 - March 2018</b>	<b>Paleo-Geobiology Department, LMU Munich</b>  <i>The Jurassic fossil records of mammals: implications for mammal evolution and diversity patterns. (Supervisor: Prof. Oliver Rauhut)</i>
<b>May 2017 - August 2017</b>	<b>The Bavarian State Collection of Zoology- LMU Munich</b>  <i>Skull morphology and morphometrics analyses of genus Mazama (Mammalia) (Supervisor: Dr. Nicola Heckeberg)</i>
<b>June 2016 - August 2016</b>	<b>Yale University Kline Geology Laboratory/USA</b>  <i>Skull morphology and phylogeny of Lower Permian reptile Araeoscelis, supervised by Assistant Prof. Bhart-Anjan Bhullar and Dr. Adam Pritchard. In this project, my main focus was reconstruction of Araeoscelis skull with using CT scan data, and determination of phylogeny of Araeoscelis.</i>
<b>July 2014 - September 2014</b>	<b>Yale University Kline Geology Laboratory/USA</b>  <i>Boron isotope records across the K-Pg boundary, supervised by Assistant Prof. Pincelli Hull and Dr. Michael Hennehan. In this project, my main contribution was collecting specific foraminifera genus for the boron isotope measurements from the ocean drilling samples.</i>

## INTERNSHIP

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**June 2016 - August 2016**

**Yale University Kline Geology Laboratory, Bhullar Lab.**

*In this internship, my time was primarily spent learning CT data processing and evolutionary developmental biology techniques to study the origin of cranial anatomy in reptiles.*

**January 2015 - February 2015**

**European Center of Prehistory, Tautavel/France**

*The focus of internship was the micromammal fauna of Arago Cave, supervised by Dr. Sophie Grégoire and Loic Lebreton.*

**July 2014 - September 2014**

**Yale University Kline Geology Laboratory, Hull Lab.**

*The focus of internship was about paleoecology, biogeochemistry and stratigraphy of Maastrichtian and Paleocene planktonic foraminifera.*

**July 2013 - August 2013**

**Institute de Paleontologie Humaine, Nice/France**

*During my internship, I participated several works which include prehistoric cave excavation, stone tool analyzing, sediment granulometry, bone restoration.*

## SCIENTIFIC CONFERENCE AND SCHOOLS

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**2017**

**Studi-Forscht@GEO-Conference-LMU, Munich /Germany**

*Quantitative approach on the cranial characteristics of Genus Mazama (talk and poster).*

**2017**

**EAVP 2017, Munich / Germany**

*Student committee member.*

**2015**

**3rd Mathematical Evolution Summer School, Izmir/ Turkey**

*One week school of mathematical evolution focusing on evolutionary demography, population genetics, genome evolution and also applied courses focusing on ecological data analysis and DNA sequence analysis.*

**2013**

**14th RCMNS - Neogene to Quaternary Geological Evolution of Mediterranean, Paratethys and Black Sea, Istanbul /Turkey**

## PUBLICATIONS

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“Identification of growing microorganisms in marine sediments under oxic and anoxic conditions through  $H_2^{18}O$  quantitative DNA stable isotope probing.” Omer K. Coskun, **Volkan Özen**, Scott D. Wankel, and William D. Orsi (DOI: <https://doi.org/10.1038/s41396-019-0373-4> –the Nature ISME Journal)

### *Conference papers—*

“Investigating the role of Southern Ocean phytoplankton in the end-Eocene climatic events.” **Volkan Özen**, Gabrielle Rodrigues de Faria, Gayané Asatryan, Johan Renaudie & David B. Lazarus (Jahrestagung der Paläontologischen Gesellschaft 2019)

“Interrogating the Palaeocene Palaeoclimate Paradox.” Michael J. Hennehan, James Barnett, Noah J. Planavsky, Kate Littler, Mathis P. Hain, Ellen Thomas, **Volkan Özen**, Friedhelm von Blanckenburg, Pincelli M. Hull (Goldschmidt Conference, 2019)

“Between a rock and a hard place: The history of Palaeocene ocean pH.” Michael J. Hennehan, Pincelli M. Hull, Noah J. Planavsky, Ellen Thomas, **Volkan Özen** (Goldschmidt Conference, 2015)

### *Popular Science Publications (in Turkish);*

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

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

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

“Pluton and Its Geological Wonders.” Volkan Özen (Turkish Astronomical Society Gökyüzü (Sky) Magazine, August 2015)

## TEACHING EXPERIENCES

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2015

**David M. Raup Lecture Series, Istanbul Technical University**

**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.

## PROGRAMMING AND TOOLS

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Effective in programming **R** language (Data analysis and statistical inference)

Intermediate in programming **Python** language (PyRate, MrBayes)

CorelDRAW, Inkscape

VG Studio Max 3.0 (CT segmentation)

## LANGUAGE SKILLS

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Turkish (native), English (advanced), German (beginner)

## REFERENCES

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**- Prof. Dr. Ulrich Struck**

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Leibniz-Institut für Evolutions- und Biodiversitätsforschung  
Invalidenstraße 43 10115 Berlin, Germany  
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**- Prof. Oliver Rauhut**

Bavarian State Collections of Paleontology and Geology  
Richard-Wagner-Str. 10  
80333 Munich, Germany  
o.rauhut@lrz.uni-muenchen.de

**- Dr. David Lazarus**

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**- Dr. Michael Henehan**

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