

Volkan Özen

Museum für Naturkunde
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I am a first-year PhD student of the micropaleontology group at the Natural History Museum Berlin. In my PhD research, under the supervision of Dr. David Lazarus, I am trying to elucidate how open ocean plankton dynamics and climate change pertain each other by using deep-time analogs of modern ecosystems.

EDUCATION

Jun 2019 - ongoing	PhD, Museum für Naturkunde Berlin, Germany
2016 - 2018	MSc, Ludwig Maximilian University of Munich, Germany
2011 - 2016	BSc, Istanbul Technical University, Turkey

RESEARCH

April 2018 - September 2018	Paleo-Geobiology Department, LMU Munich <i>(Thesis) The Jurassic fossil records of tetrapods: patterns and bias.</i> <i>(Supervisor: Prof. Oliver Rauhut)</i>
November 2017 - March 2018	Paleo-Geobiology Department, LMU Munich <i>The Jurassic fossil records of mammals: implications for mammal evolution and diversity patterns.</i> <i>(Supervisor: Prof. Oliver Rauhut)</i>
May 2017 - August 2017	The Bavarian State Collection of Zoology- LMU Munich <i>Skull morphology and morphometrics analysis of genus Mazama (Mammalia) (Supervisor: Dr. Nicola Heckeberg)</i>
June 2016 - August 2016	Yale University Kline Geology Laboratory/USA <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>
July 2014 - September 2014	Yale University Kline Geology Laboratory/USA <i>Boron isotope records across the K-Pg boundary, supervised by Assistant Prof. Pincelli Hull and Dr. Michael Henahan. In this project, my main contribution was collecting specific foraminifera genus for the boron isotope measurements from the ocean drilling samples.</i>

INTERNSHIP

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

Faunal reconstruction of the Arago Cave, supervised by Dr. Sophie Grégoire and Loic Lebreton.

July 2014 - September 2014

Yale University Kline Geology Laboratory, Hull Lab.

Paleoecology, biogeochemistry and stratigraphy of the Maastrichtian and the 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.

CONFERENCE AND SCHOOLS

2019

Paläontologischen Gesellschaft 2019, Munich/Germany

2017

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

2017

EAVP 2017, Munich/Germany

2015

3rd Mathematical Evolution Summer School, Izmir/Turkey.

2013

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

PUBLICATIONS

*"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 abstract—

*"Palaeogene polar plankton and productivity: a contribution to the Franco-German "Make Our Planet Great Again" research initiative" –Gayane Asatryan, David B. Lazarus, Johan Renaudie, Gabrielle Rodrigues de Faria, **Volkan Özen** (The Palaeontological Association 63rd Annual Meeting 2019)*

"Investigating the role of Southern Ocean phytoplankton in the end-Eocene climatic events." –**Volkan Özen**, Gabrielle Rodrigues de Faria, Johan Renaudie, David B. Lazarus, Gayane Asatryan (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 Conference, 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 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 It's Geological Wonders." Volkan Özen (Turkish Astronomical Society Gökyüzü (Sky) Magazine, August 2015)

TEACHING EXPERIENCES

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

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

LANGUAGE SKILLS

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

REFERENCES

- Dr. David Lazarus
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- Dr. Michael Henahan
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