GREGOR MATHES

Gregor Mathes is a PhD student and analytical palaeontologist at the University of Bayreuth and Friedrich-Alexander University Erlangen-Nuremberg. His research interests include conservation palaeontology, analytical macroecology, and data science. He applies novel statistical tools to the fossil record to gain insights about Earths history. Using this information about the past, he focuses on the conservation of recent biodiversity under current climate change.

🎓 EDUCATION

PhD. Candidate, Analytical Palaeobiology

University of Bayreuth   📍 Bayreuth

Current | 2019

- Working on climate-biodiversity interactions using mixed effect regression models and machine learning algorithms
- Additionally contributing to various research projects of other team member covering sports ecology, macroecology, and geology. Providing help for programming, statistics, and data visualisation
- Uni-Website[1]

B.S., Analytical Palaeobiology and Earth System Research lab

Friedrich-Alexander University Erlangen-Nuremberg   📍 Erlangen

2019 | 2018

- Thesis: The effect of palaeoclimate interactions on the extinction risk of organism
- Focus on statistics, programming, and academic skills

B.S., Geology

Friedrich-Alexander University Erlangen-Nuremberg   📍 Erlangen

2018 | 2013

- Thesis: Diagenesis of Halimeda
- Focus on palaeobiology, applied sedimentology, and geochemistry/petrology

Abitur

Hans-Sachs Gymnasium Nuremberg   📍 Nuremberg

2013 | 2005

- Thesis: Die Alpen - Paradebeispiel plattentektonischer Prozesse
- Focus on German, Mathematics, English, History, and Physics

View this CV online with links at _https://gregor-mathes.netlify.app/#cv_

CONTACT

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- 🐦 GregorMathes
- 🐙 https://github.com/Ischi94
- 🔗 https://gregor-mathes.netlify.app
- in https://www.linkedin.com/in/gregor-mathes-2595311b6/
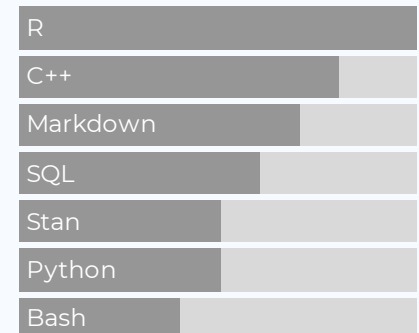
LANGUAGE SKILLS

R

C++

Markdown

SQL

Stan

Python

Bash

Last updated on 2020-10-27.

INDUSTRY EXPERIENCE

Current | 2019

Lecturer
Hanns-Seidel Stiftung

📍 Kloster Banz

· Lecturer for one week workshops covering topics such as mass extinctions or climate change

TEACHING EXPERIENCE

2020 | 2019

Lecturer
Friedrich-Alexander University Erlangen-Nuremberg

📍 Erlangen

· Served as TA for foraminifera lecture in the microfossils cource of the master program "Analytical Palaeobiology"

2019 | 2018

Data Warehouse Solution
Friedrich-Alexander University Erlangen-Nuremberg

📍 Erlangen

· Created a data base for the thin section collection of the Faculty Palaeobiology
· Data base environment based on WissKI

2019 | 2017

Lecturer
Friedrich-Alexander University Erlangen-Nuremberg

📍 Erlangen

· Invited talks on carbonate microfacies during the internationally renowned Flügel-Course[2]
· Focus on foraminifera and thin sections

SELECTED PUBLICATIONS, POSTERS, AND TALKS

2020 | 2020

Extinction risk controlled by interaction of long–term and short–term climate change
Nature Ecology and Evolution

· Authored with Jeroen van Dijk, Wolfgang Kiessling, Manuel J. Steinbauer
· Currently in revision

Gregor Mathes is a member of the Conservation Paleobiology Network and currently chair of the training series sub-committee. He is a private lecturer at the Hanns-Seidel-Stiftung e.V. providing talks and classes on climate change and Earths system.

2020
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2020

Biodiversity turnover controlled by interaction of long–term and short–term climate change
YOMOS 2020

· Online conference

2020
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2020

Extinction risk controlled by interaction of long–term and short–term climate change
Conservation Paleobiology Symposium   📍 University of Bologna

· A talk on the first project in my PhD schedule

2019
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2019

A novel approach to define evolutionary units in Phanerozoic reefs
Conservation Paleobiology Symposium   📍 University of Würzburg

· A talk about a project from my master program

2018
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2018

Anthropogenic impacts on benthic foraminiferal assemblages, Oahu, Hawaii
Forams 2020   📍 University of Edinburgh

· A poster presentation at my first academic conference.

🖥 SELECTED AWARDS AND HONORS

2020
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2020

Best student talk
Conservation Paleobiology Symposium   📍 Bologna

· Presentation title: Extinction risk controlled by interaction of long-term and short-term climate change

2019
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2019

Master thesis with distinction
Friedrich-Alexander University Erlangen-Nuremberg   📍 Erlangen

· Awarded for master theses with an overall grade below 1.2

2019
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2019

Invited talk on carbonate microfacies
Friedrich-Alexander University Erlangen-Nuremberg   📍 Erlangen

· Invited talk at the international course on carbonate microfacies about foraminifera and their applications

2018
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2018

Winner of the 1st FAU International Science Slam
Friedrich-Alexander University Erlangen-Nuremberg   📍 Erlangen

· The Faculty of Sciences hosted FAU's first International Science Slam. Presentation title: Warning: the following presentation may contain foraminifera

LINKS

1: https://www.spowi5.uni-bayreuth.de/de/team/Mathes/index.php
2: https://www.gzn.nat.fau.eu/palaeontology/outreach/flugel-course/