

# 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 Earth's history. Using this information about the past, he focuses on the conservation of recent biodiversity under current climate change.



## EDUCATION

Current  
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2019

- **PhD. Candidate, Analytical Palaeobiology**  
University of Bayreuth 📍 Bayreuth
  - 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<sup>7</sup>

2019  
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2018

- **M.Sc., Analytical Palaeobiology and Earth System Research lab**  
Friedrich-Alexander University Erlangen-Nuremberg 📍 Erlangen
  - Thesis: The effect of palaeoclimate interactions on the extinction risk of organism
  - Focus on statistics, programming, and academic skills

2018  
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2013

- **B.Sc., Geoscience**  
Friedrich-Alexander University Erlangen-Nuremberg 📍 Erlangen
  - Thesis: Diagenesis of Halimeda
  - Focus on palaeobiology, applied sedimentology, and geochemistry/ petrology

2013  
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2005

- **Abitur**  
Hans-Sachs Gymnasium Nuremberg 📍 Nuremberg
  - 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\\_](https://gregor-mathes.netlify.app/#cv_)

## CONTACT

✉ [gregor.mathes@uni-bayreuth.de](mailto:gregor.mathes@uni-bayreuth.de)

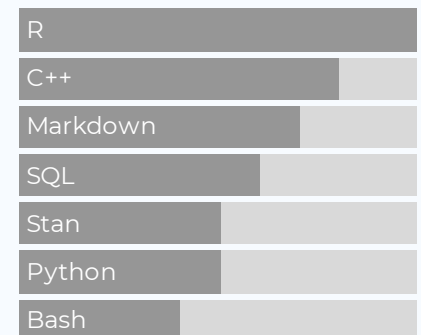
🐦 [GregorMathes](#)

🔗 <https://github.com/Ischi94>

🔗 <https://gregor-mathes.netlify.app>

in  
<https://www.linkedin.com/in/gregor-mathes-2595311b6/>

## LANGUAGE SKILLS



*Last updated on 2020-10-27.*



## INDUSTRY EXPERIENCE

Current  
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2019



### Lecturer

Hanns-Seidel Stiftung

📍 Kloster Banz

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



## TEACHING EXPERIENCE

2020  
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2019



### Lecturer

Friedrich-Alexander University Erlangen-Nuremberg

📍 Erlangen

- Served as TA for foraminifera lecture in the microfossils course of the master program "Analytical Palaeobiology"

2019  
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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  
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2017



### Lecturer

Friedrich-Alexander University Erlangen-Nuremberg

📍 Erlangen

- Invited talks on carbonate microfacies during the internationally renowned Flügel-Course<sup>2</sup>
- Focus on foraminifera and thin sections

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 Earth's system.



## SELECTED PUBLICATIONS, POSTERS, AND TALKS

2020  
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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

- 2020  
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2020

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**Biodiversity turnover controlled by interaction of long-term and short-term climate change**  
YOMOS 2020  
• Online conference
- 2020  
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2020

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**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

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**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

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**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

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**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

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**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

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**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

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**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/>