



# Konstantin Engelmayer

## Curriculum Vitae

### Personal Details

Birth 2000/08/18, Köln  
Status Student  
Languages German (Native), English (C1)

### Education

2023 - now **Master of Science, Physical Geography**, *Philipps University Marburg*,  
Specialization: Environmental Informatics and Climate Impact Research  
Current NC (GPA): 0.83

2022 **Bachelor thesis**, *Soil Respiration in Forests of Different Land Use Intensity*  
Project BiCO<sub>2</sub>, in cooperation with Nabu Münsterland and the Forest and Wood  
Office NRW

2019 - 2022 **Bachelor of Science, Landscape Ecology**, *University Münster*  
NC (GPA): 1.4

### Work Experience

2024 - now **Student Assistant**, *Philipps University Marburg* — *Laboratory for Climate  
tology and Remote Sensing*  
**MW3** project: Investigation of drought reactions of forests using remote sensing  
techniques

2024 **Student Assistant**, *Philipps University Marburg* — *Plant Ecology and  
Geobotany*, 4 months  
**FORGENIUS** project: developing methods to improve the reproducibility of *Pinus  
pinaster* cone classification based on high resolution raster data

- 2024 **Student Assistant**, *Philipps University Marburg — Environmental Informatics*, 6 months  
Tutor in various R programming courses, focusing on spatial data analysis and upscaling / Created and improved HTML-based learning environments for students
- 2023 **GIS Developer**, *Hydrotec Aachen*, 4 months  
Development of RShiny Websites for hydrographic plot creation / Risk water verification in NRW, optimized river gauge locations, and analyzed flood hazards using damage data and heavy rainfall information.
- 2023 **GIS Developer Intern**, *Hydrotec Aachen*, 3 months  
Programming of R and Python tools for automation in heavy rainfall simulations / extreme rainfall modeling using HydroAS
- 2021 - 2022 **Student Assistant**, *University Münster — Ecohydrology & Biogeochemistry / Biodiversity and Ecosystem Research*, 6 months  
Supervision of the laboratory internship/ field and laboratory work

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## Technical Experience

- Programming: Experienced in R and Python for spatial analyses and data processing.
- R Packages: terra, sf, caret, cast.
- Python Packages: xarray, rasterio, geopandas, gdal, scikit-learn.
- API Integrations: Google Earth Code Engine, Microsoft Planetary Computer, and STAC.
- Web Development: Building and deploying HTML websites via GitHub.
- Documentation: R Markdown, Markdown.
- Version Control: GitHub.
- GIS Software: QGIS, ArcGIS Pro, ArcGIS Online.
- Other Software: Microsoft Office (Word, Excel, PowerPoint), Overleaf (LaTeX), ENVI-met.

*For an extended version of my CV and additional project details, click [here](#).*