



Konstantin Engelmayer

Curriculum Vitae

Personal Details

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

Education

2019 - 2022 **Bachelor of Science, landscape ecology**, *Westfälische Wilhelms-Universität*, Münster, NC (GPA): 1.4
2022 **Bachelor thesis**, *Soil Respiration in Forests of Different Land Use Intensity*
Project BiCO₂, in cooperation with Nabu Münsterland and the Forest and Wood Office NRW
2023 - now **Master of Science, physical geography**, *Philipps University*, Marburg, Current NC (GPA): 0.93
Specialization: Environmental Informatics

Work Experience

2021 - 2022 **Student Assistant**, *University Münster — Ecohydrology & Biogeochemistry / Biodiversity and Ecosystem Research*, Münster, 6 month
Supervision of the laboratory internship/ field and laboratory work
2023 **GIS-Tool developer**, *Hydrotec*, Aachen, Internship: 3 months, Part-Time: 4 months
Programming of R and Python tools for automation in heavy rainfall simulations / extreme rainfall modelling using HydroAS

- 2024 **Student Assistant**, *Philipps University Marburg — Environmental Informatics*, Marburg, 6 months
Tutor in various R programming courses, focusing on spatial data analysis and upscaling / Created and improved HTML-based learning environments for students
- 2024 **Student Assistant**, *Philipps Universität Marburg — Plant ecology and geobotany*, Marburg, 4 months
FORGENIUS project: developing methods to improve the reproducibility of *Pinus pinaster* cone classification and enhancing reproducibility.
- 2024 **Student Assistant**, *Philipps Universität Marburg — Laboratory for Climatology and Remote Sensing*, Marburg, current employment
MW3 project: Investigation of the relationship between solar-induced chlorophyll fluorescence and drought indices using remote sensing techniques

Special Skills

- Programming: R (Spatial analyses, processing remotely sensed data, statistical analysis, machine and deep learning, Shiny applications, QGIS Plugins), Python (Spatial analyses, processing remotely sensed data, plugins for QGIS)
- 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: Word, Excel, PowerPoint, LaTeX (Overleaf), ENVI-met (physical modeling)

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