

LEONIE GRAU

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Climate Service Center Germany
Helmholtz-Zentrum Hereon
Fischertwiete 1
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WORK EXPERIENCE

since 08/2024

PhD candidate & employee in the HICCS-Project URBANLINE –
Helmholtz-Zentrum hereon/Climate Service Center Germany
(GERICS), Hamburg

- Topic: Developing a strategy for highly localized climate projections facilitating an integrated urban climate assessment at microscale

02/2021 – 05/2024

Geoinformatics Specialist - regioDATA GmbH, Freiburg i. Br.

- Developing and sustaining Smallworld GIS
- Application-oriented code development (Magik, svn)
- (Linux-) Server administration

01/2020 - 08/2020

Research Assistant - Chair of Environmental Meteorology,
Albert-Ludwigs-University of Freiburg

- Assistance to organising and communication of planning meetings in the European Research Council Synergy Grant-project „urbisphere“
- Planning, acquisition and testing of meteorological measuring instruments, systems and stations
- Assistance to building a database infrastructure for meteorological data

03/2019 – 10/2019

Student Assistant - Programme coordination M.Sc. Environmental Sciences/Forest Sciences, Albert-Ludwigs-University of Freiburg

- General assistance to the programme coordinator
- Coordination of the application process, management of applications

11/2016 – 03/2019

Student Assistant - Chair of Environmental Meteorology,
Albert-Ludwigs-University of Freiburg

- Acquisition, preparation and evaluation of environmental data for various projects (see publications)
- Teaching assistance

EDUCATION

10/2017 - 12/2019

M.Sc. Environmental Sciences (Environmental Modeling and GIS),
Albert-Ludwigs-University of Freiburg

Master Thesis: *The effect of Repowering on the technical wind energy potential in Germany*

10/2012 - 08/2016

B.Sc. Geography (Major), Meteorology und Climatology (Minor),
Albert-Ludwigs-University of Freiburg

Bachelor Thesis: *Assessing the geographical wind energy potential in Baden-Württemberg, Germany*

PUBLICATIONS

Grau, L.; Jung, C.; Schindler, D. (2021): Sounding out the repowering potential of wind energy – A scenario-based assessment from Germany, 293: 0959-6526.

Jung, C.; Schindler, D., Grau, L. (2018): Achieving Germany's wind energy expansion target with an improved wind turbine siting approach. *Energy Conversion and Management*, 173: 383-398.

Jung, C.; Nagel, L.; Schindler, D.; Grau, L. (2018): Fossil fuel reduction potential in Germany's transport sector by wind-to-hydrogen. *International Journal of Hydrogen Energy*, 43: 23132-23138.

Grau, L.; Jung, C.; Schindler, D. (2017): On the Annual Cycle of Meteorological and Geographical Potential of Wind Energy: A Case Study from Southwest Germany. *Sustainability*, 9, 1169.