

# Curriculum Vitae

Henri Funk (he / him)

## Education

Munich	<b>Ludwig Maximilian University of Munich</b>
since 2022	PHD Candidate at the Chair of Statistics in cooperation with the working group of physical Geography and complex environmental systems
Munich	<b>Ludwig Maximilian University of Munich</b>
2020 - 2022	Master of Science in Statistics
Munich	<b>Ludwig Maximilian University of Munich</b>
2018 - 2020	Postgraduate studies (60 ECTS) Major Statistics, minor Sociology
Mexico	<b>Tecnológico de Monterrey</b>
2017	Semester Abroad
Pforzheim	<b>Hochschule Pforzheim</b>
2014 - 2018	Bachelor of Science in BW/ Market Research
Darmstadt	<b>Lichtenbergschule</b>
2005 - 2013	Abitur

## Experience

Munich	<b><u><a href="#">ClimExII Project</a></u></b>
since 2022	Climate Modelling Drought Prediction and Bias Correction
Munich	<b><u><a href="#">Statistical Consulting</a></u></b>
since 2022	Consulting Advising students and researchers on statistical issues
Munich	<b>Teaching</b>
since 2022	Statistical Modelling & Seminars Courses for Bachelor and Master Students in Statistics
Munich	<b>Essential Data Science Training GmbH</b>
since 2021	Teaching assistant Teaching R and statistics
Munich	<b>Chair for Statistical Learning &amp; Data Science</b>
2020 - 2022	Student assistant mlr3 package and teaching

## Contact Details

Contact: 01577/768654  
[H.Funk@lmu.de](mailto:H.Funk@lmu.de)  
Work: Raum 340  
Ludwigstraße 33  
80539 München

## Languages

German

English

Spanish

## Further Interests



# Curriculum Vitae

Henri Funk (he / him)

## Recent Projects

- since 2024 [Climate and Statistic](#)  
A comprehension of machine learning and statistical methods in climate modelling. Supervising a collaborative student project in a Seminar at LMU.
- 2022/23 **Towards Algorithm-Agnostic Interpretability in Clustering**  
Master Thesis in Interpretable Machine Learning  
Transfer and extension and implementation methods to clustering tasks. [Publication](#) and Cran-Package [FACT](#).
- 2022 **Fuzzy DBScan**  
A R [Cran-Package](#) for fuzzy Clustering with DBScan.
- 2021 **Automated classification of atmospheric circulation patterns using Deep Learning Methods**  
Development of a [Python package using Pytorch](#)  
Publication and presentation of a paper at EnvirolInfo conference  
1st place at bidt Innovation Laboratories
- 2021 **The [No-U-Turn Sampler](#) with dual averaging**  
Seminar for Bayesian inference

## Publications

Funk, H., Ludwig, R., Kuechenhoff, H., & Nagler, T. (2024). **Towards more realistic climate model outputs: A multivariate bias correction based on zero-inflated vine copulas.** arXiv preprint [arXiv:2410.15931](#).

Scholbeck, C.A., Funk, H., Casalicchio, G. (2023). **Algorithm-Agnostic Feature Attributions for Clustering.** In: Longo, L. (eds) Explainable Artificial Intelligence. xAI 2023. Communications in Computer and Information Science, vol 1901. Springer, Cham. doi: [10.1007/978-3-031-44064-9\\_13](#)

H. Funk, C. Becker, A. Hofheinz, G. Xi, Y. Zhang, F. Pfisterer, M. Weigert, and M. Mittermeier (2021). **Towards an automated classification of hess brezowsky's atmospheric circulation patterns Tief and Trog Mitteleuropa using deep learning methods.** Shaker Verlag GmbH. doi: [10.2370/9783844083293](#)

## Research Interests

Climate Modelling • Compound Events • Hydrology • Applied Statistics • Copula • xAI • Uncertainty Quantification • Programming • Big Data

## Software



## Find me on

