

Curriculum Vitae

Henri Funk (he / him)

Education

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

Experience

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

Contact Details

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80539 München

Languages

German

English

Spanish

Further Interests



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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



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