

Henri Funk

Academic Curriculum Vitae

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Career Summary

I am a PhD candidate in Statistics at LMU Munich, supervised by Prof. Dr. Helmut Küchenhoff and working with Prof. Dr. Ralf Ludwig's group in Applied Physical Geography and Environmental Modelling. My cumulative dissertation develops statistical methods for decomposing climate model uncertainty into bias, internal variability, and forced signal, and applies them to drought characterisation and forecasting in Europe. My contributions include a vine-copula-based multivariate bias-correction method, a generalised additive model framework for internal variability, and a deep-learning drought-forecasting system that accounts for uncertainty. Alongside my research, I teach statistics and R, and I advise researchers on statistical methodology through StaBLab, LMU's statistical consulting unit. From October 2026 I join BayWaT-AI, building deep-learning models for river water temperatures and riverine heatwaves in Bavaria.

Education

2022–present	PhD Candidate, Statistics , Department of Statistics, LMU Munich. Supervisor: Prof. Dr. Helmut Küchenhoff; cooperation: Prof. Dr. Ralf Ludwig (Dept. of Geography); affiliated with the Munich Center for Machine Learning (MCML) .
2020–2022	Master of Science (M.Sc.) in Statistics / Statistik mit wirtschafts- und sozialwissenschaftlicher Ausrichtung, LMU Munich.
2018–2020	Postgraduate studies (60 ECTS), major Statistics, minor Sociology, LMU Munich.
2014–2018	B.Sc. Business Administration / Market Research , Hochschule Pforzheim; semester abroad at Tecnológico de Monterrey, Mexico (2017).
2005–2013	Abitur , Lichtenbergschule, Darmstadt.

Academic Positions

from 10/2026	Researcher, BayWaT-AI , LMU Munich, building deep-learning models for river water temperatures and riverine heatwaves in Bavaria.
2022–2025	Researcher, ClimEx II , LMU Munich, working on climate modelling, drought prediction and bias correction.
2022–present	Statistical Consultant, StaBLab , LMU Munich, advising researchers and students on statistical methodology.
2020–2022	Student Assistant , Chair for Statistical Learning & Data Science, LMU Munich, working on the mlr3 package and teaching.

Teaching

since 2022	R-Kurs (StaBLab), co-instructor of the biannual block course introducing statistics and R.
since 2022	Statistical Modelling & Seminars , courses for Bachelor and Master students in Statistics, LMU Munich.

WS 2025/26 **Statistics for Geophysicists**, lecture and exercise for Geophysics Master, LMU Munich.
since 2021 **Teaching Assistant**, Essential Data Science Training GmbH, teaching R and statistics.

Selected Publications

The following articles are part of my cumulative dissertation.

Full list of publications can be found in the accompanying List of Publications.

- **Funk, H.**, Ludwig, R., Küchenhoff, H., & Nagler, T. (2025). Towards more realistic climate model outputs: A multivariate bias correction based on zero-inflated vine copulas. **Journal of the Royal Statistical Society: Series C**.
- Gruber, C.*, **Funk, H.***, Mittermeier, M., Küchenhoff, H., & Kauermann, G. (2026). Capturing aleatoric uncertainty in climate models. **Environmetrics**, 37(5), e70108.

**shared first coauthorship*

Affiliations

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- [Munich Center for Machine Learning \(MCML\)](#), Oettingenstraße 67, 80538 Munich, Germany