

Henri Funk

Academic Curriculum Vitae

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Peer-Reviewed Journal Articles

- [1] Gruber, C.*, **Funk, H.***, Mittermeier, M., Küchenhoff, H., & Kauermann, G. (2026). *Capturing aleatoric uncertainty in climate models*. **Environmetrics**, 37(5), doi:10.1002/env.70108
- [2] Paßlack, N., Veit, H., **Funk, H.**, Zentek, J., & Schuchardt, S. (2026). *Impact of a dietary fish oil supplementation on the plasma lipidome of healthy adult cats*. **Metabolites**, 16(6), 427. doi:10.3390/metabo16060427
- [3] Lonardi, J., Halimeh, S., von Mackensen, S., Kleinlein, L., Fleischer, J., **Funk, H.**, Hölz, J., Holzapfel, J., Juranek, S., Lieftüchter, V., Bidlingmaier, C., & Olivieri, M. (2026). *HAEMFIX: Impact of switching from SHL-FIX to EHL-FIX in patients with haemophilia B*. **Haemophilia**, 32(1), 55–62. doi:10.1111/hae.70157
- [4] **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 (Applied Statistics)**, doi:10.1093/jrssc/qlaf044.
- [5] Fischer, S., Zobolas, J., Sonabend, R., Becker, M., Lang, M., Binder, M., Schneider, L., Burk, L., Schratz, P., Jaeger, B. C., Lauer, S. A., Kapsner, L. A., Mücke, M., Wang, Z., Pulatov, D., Ganz, K., **Funk, H.**, Harutyunyan, L., Camilleri, P., Kopper, P., Bender, A., Zhou, B., German, N., Koers, L., Nazarova, A., & Bischl, B. (2025). *mlr3extralearners: Expanding the mlr3 ecosystem with community-driven learner integration*. **Journal of Open Source Software**, 10(115), 8331. doi:10.21105/joss.08331

Conference Papers

- [6] Scholbeck, C. A.*, **Funk, H.***, & Casalicchio, G. (2023). *Algorithm-agnostic feature attributions for clustering*. In L. Longo (Ed.), **Explainable Artificial Intelligence (xAI 2023)**, CCIS 1901, pp. 217–240. Springer, Cham. doi:10.1007/978-3-031-44064-9_13
- [7] **Funk, H.**, Becker, C., Hofheinz, A., Xi, G., Zhang, Y., Pfisterer, F., Weigert, M., & Mittermeier, M. (2021). *Towards an automated classification of Hess–Brezowsky’s atmospheric circulation patterns “Tief Mitteleuropa” and “Trog Mitteleuropa” using deep learning methods*. In **Environmental Informatics: Adjunct Proceedings of the 35th EnviroInfo Conference**. Shaker Verlag. doi:10.2370/9783844083293

Conference Abstracts, Presentations & Posters

- [8] **Funk, H.**, Gruber, C., Kauermann, G., Küchenhoff, H., Ludwig, R., & Mittermeier, M. (2026, May 3–8). *Uncertainty-aware AI forecasting of European droughts: The role of internal climate variability*. **EGU General Assembly 2026**, Vienna, Austria & Online. doi:10.5194/egusphere-egu26-10474
- [9] **Funk, H.**, Ludwig, R., Küchenhoff, H., & Nagler, T. (2025). *Modelling climate variables at high temporal resolution*. **ESS Open Archive**, 40, essoar-173627220.

- [10] **Funk, H.**, Boehnisch, A., Ludwig, R., Küchenhoff, H., & Nagler, T. (2024, December). *Introducing a novel, multivariate correction for zero-inflated variables for climate impact assessment at a high temporal resolution*. **AGU Fall Meeting Abstracts**, Vol. 24, A54A-05.
- [11] **Funk, H.**, Küchenhoff, H., Ludwig, R., & Nagler, T. (2024, July 23). *Bias correction: Adjustment of climate model outputs to historical data*. **Workshop on Dependence Models, Vines, and Their Applications**, Garching, Germany.
- [12] Sasse, A., **Funk, H.**, Böhnisch, A., & Ludwig, R. (2024). *Droughts in Central Europe: Assessing their characteristics and future dynamics in a hydroclimatic single-model large ensemble*. **AGU Fall Meeting Abstracts**, H41I-0652.
- [13] **Funk, H.**, Küchenhoff, H., Ludwig, R., & Nagler, T. (2023, September 25–29). *Evaluating the structure of bias-corrected climate variables*. **International Conference on Regional Climate: CORDEX 2023 (ICRC-CORDEX 2023)**, Trieste, Italy.
- [14] Meier, T., Paschan, N., Böhnisch, A., **Funk, H.**, Sasse, A., & Küchenhoff, H. (2023, July 16–21). *Analysis of climatological drivers of low-flow events in hydrological Bavaria using large-ensemble climate projections*. In **Proceedings of the 37th International Workshop on Statistical Modelling (IWSM)**, Dortmund, Germany.

Software

- [15] **Funk, H.** (2026). **VBC**: Vine Copula Based Bias Correction for Climate Models. R package version 1.0.0, <https://henrifnk.github.io/VBC/>.
- [16] **FACT**: Feature Attributions for Clustering. Transfers algorithm-agnostic interpretability methods to clustering tasks. Accompanies the xAI 2023 paper. github.com/henrifnk/FACT
- [17] **FuzzyDBScan**: fuzzy clustering with DBScan. github.com/henrifnk/FuzzyDBScan

Seminar Books

- [18] Küchenhoff, H., & Funk, H. (2024). *Climate and statistics*. GitHub Pages. henrifnk.github.io/Seminar_ClimateNStatistics
- [19] Funk, H., Sasse, A., Küchenhoff, H., & Ludwig, R. (2025). *Climate and statistics II*. GitHub Pages. henrifnk.github.io/Seminar_ClimateNStatistics2425
- [20] Funk, H., & Küchenhoff, H. (2026). *Climate and statistics III*. GitHub Pages. henrifnk.github.io/Seminar_C