

# CURRICULUM VITAE

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2006	Diploma in Biochemistry, Leibniz University Hannover
2009	Doctorate (Dr. rer. nat) Leibniz University Hannover
2009-2017	Post-doctoral researcher & consultant
2017-present	Group Leader "Preclinical Data Science" at Hannover Medical School
2026	Venia Legendi in Data Science at Hannover Medical School
2026	Acting director & interim Professor at the Institute of Medical Statistics at the Medical Faculty, RWTH Aachen University

## Teaching Experience

2009-2017	Bioinformatics, Statistics, and Good Scientific Practice workshops at Hannover Medical School
Since 2017	R coding workshops
2018-2026	Curricular courses: Statistics in Laboratory Animal Science & Biometry
Since 2021	Lecture "How to read a study" (Biomedical Data Science)
Since 2024	Co-initiator of the TRAVELS Symposium (Towards Reproducibility and Value in the Life Sciences)

## Current Research Interest and Lighthouse Research Projects

- **FOR2951.** Development of data science tools and algorithms for quantitative severity assessment in laboratory animals. (DFG funded)
- **R<sub>2</sub>N Consortium.** Statistical validation and experimental planning for the "Micro-Replace-Systems" consortium. (funded by zukunft.niedersachsen)
- Development of AI-driven decision and information retrieval systems.
- Development of multidimensional composite scores in translational research (e.g., the Relative Severity Assessment (RELSA) score & Patient Vital Status (PVS)).