

Dr. Anna MALINOVSKAYA

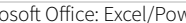
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 Hannover, Germany

I bring established expertise in neural network monitoring, interpretability, data analysis across various types and software engineering. With experience teaching statistics and econometrics, contributing to open science and bridging academia and industry, I strive to make complex machine learning concepts usable in real-world applications for benefiting society and nature.

EDUCATION AND QUALIFICATIONS

- 11.2019 – 04.2024 **PhD (Dr.-Ing.) in Applied Statistics**, Leibniz University Hannover. Supervisor: [Professor Philipp Otto](#). Topic: “Statistical Process Monitoring of Networks”. *Additional individual study programme (at Master’s level) in geodesy and geoinformatics.*
- 10.2015 – 05.2019 **Study of International Business Administration (Bachelor of Science)**, European University Viadrina, Frankfurt (Oder). Specialisation in Statistics, Finance and Accounting. *Grade: 1.2 (with honours).*
- 09.2017 – 12.2017 **Semester Abroad**, Manchester Metropolitan University. Specialisation in Finance and Accounting. *Learning how to: determine the market value of corporations, taking into account reputational risk.*

PROFESSIONAL EXPERIENCE

- since 08.2025 **Data Scientist, VHV VERSICHERUNGEN, Hannover**
- › Automating cross-departmental workflows using Robotic Process Automation (RPA)
 - › Designing interactive dashboards for claims analysis and central KPI tracking
 - › Developing market pricing models for residential property and accident insurance lines
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- 07.2025 **Data Scientist, NALA EARTH GMBH, Remote/Berlin**
- 12.2023
- › Design and implementation of features in compliance with a domain-driven hexagonal architecture of the application
 - › Collection, processing and analysis of geospatial data
 - › Development of indicators to quantify the influence of companies on biodiversity
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- 02.2019 **Internship, DEPARTMENT RISK INSTRUMENTS, Daimler Financial Services, Stuttgart**
- 09.2018
- › Development of statistical tools for risk monitoring of subsidiaries
 - › Programming of automated report generation
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- 05.2017 **Internship, DEPARTMENT AUDIT & ASSURANCE, Deloitte GmbH, Berlin**
- 02.2017
- › Audit in the hotel industry
 - › Conducting market research
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SCIENTIFIC AND ACADEMIC EXPERIENCE

01.2026 03.2022	Statistics Lecturer, BUSINESS ECONOMICS, Leibniz University of Applied Sciences › Conceptualisation and teaching of Statistics and Econometrics › Preparation of exams in the form of real-world-alike data problems R LaTeX Microsoft Office: Excel/Word
12.2023 07.2019	Researcher, INSTITUTE OF CARTOGRAPHY AND GEOINFORMATICS, FACULTY OF CIVIL ENGINEERING AND GEODETIC SCIENCE, Leibniz University Hannover › Detection of anomalies in machine learning applications, specifically artificial neural networks › Modelling and monitoring of graph-structured data such as electricity physical flows and flight networks › Design and implementation of experiments with simulated and real-world data › Master's level teaching and thesis supervision R Python PyTorch C++ Matlab LaTeX Microsoft Office: Excel/PowerPoint/Word
02.2023 01.2023	Research Collaborator, STOR-I CENTRE FOR DOCTORAL TRAINING, Lancaster University › Joint project "Statistical monitoring of flow networks" with Professor Rebecca Killick › Analysis of electricity trade and transport in Europe using ENTSO-E data › Introduction of temporal edge network processes in modelling and monitoring R LaTeX Microsoft Office: Excel
02.2022	Research Collaborator, TEAM " SIGNAL, STATISTIQUE ET APPRENTISSAGE", INFORMATION PROCESSING AND COMMUNICATIONS LABORATORY, Télécom Paris › Joint project "Statistical Monitoring of Artificial Neural Networks" with Professor Pavlo Mozharovskyi › Extension of the R-package "ddalpha" C++ R Python

SCHOLARSHIPS, GRANTS AND AWARDS

CHRISTIAN-KUHLEMANN-STIFTUNG AWARD Leibniz University Hannover	12.2023
PHD COMPLETION GRANT Graduate Academy, Leibniz University Hannover	08.2023 – 12.2023
SCHOLARSHIP TO ATTEND THE WALKSHOP ON ATOMIC WASTE Foundation for the Rights of Future Generations	07.2022
SCHOLARSHIP RECIPIENT Friedrich Ebert Foundation (FES)	10.2016 – 06.2019

RELEVANT PUBLICATIONS

03.2026	Malinovskaya, A., Killick, R., Leeming, K. and Otto, P.: Statistical monitoring with novel temporal edge network processes. <i>JRSS Series C</i> . DOI .
07.2023	Malinovskaya, A., Mozharovskyi, P. and Otto, P.: Statistical process monitoring of artificial neural networks. <i>Technometrics</i> , 66(1), pp. 104-117. DOI .
05.2022	Malinovskaya, A., Otto, P. and Peters, T.: Statistical learning for change point and anomaly detection in graphs. In <i>Artificial Intelligence, Big Data and Data Science in Statistics</i> , pp. 85-109. Springer, Cham. DOI .
09.2021	Malinovskaya, A. and Otto, P.: Online network monitoring. <i>Statistical Methods & Applications, Special Issue on Statistical Analysis of Networks</i> , pp. 1-28. DOI .