

Susanne Dandl

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🔍 Google Scholar

🌐 LinkedIn

🔗 dandls

📍 Zurich, Switzerland

POSTDOCTORAL RESEARCHER

Postdoc at the intersection of **statistics, machine learning, and causal inference** with a focus on **interpretability and explainability of models, applications in health and fairness**.

ACADEMIC EXPERIENCE

Postdoctoral Researcher

Prof. Dr. Torsten Hothorn, Epidemiology, Biostatistics and Prevention Institute, University of Zurich

Area of research: (Interpretable) causal effect estimation with machine learning in complex settings

From June 2024
Zurich, Switzerland

Postdoctoral Researcher

Prof. Dr. Bernd Bischl, Chair of Statistical Learning and Data Science, Department of Statistics, LMU

Areas of research: Explainable AI/interpretable machine learning, research software engineering

Apr 2024 – May 2024
Munich, Germany

Interim Professor

ESG Data Science, Department of Statistics, LMU

Areas of research: Explainable AI/interpretable machine learning, research software engineering

Dec 2023 – Mar 2024
Munich, Germany

Doctoral Researcher

Prof. Dr. Bernd Bischl, Chair of Statistical Learning and Data Science, Department of Statistics, LMU

Areas of research: Explainable AI/interpretable machine learning, causal and fair machine learning, research software engineering

Oct 2019 – Dec 2023
Munich, Germany

Undergraduate Assistant Software Development

Prof. Dr. Bernd Bischl, Computational Statistics, Department of Statistics, LMU

Apr 2019 – Sep 2019
Munich, Germany

Undergraduate Assistant Python Courses

Christian Rink, Department of Statistics, LMU

Dec 2018 – Mar 2019 & Oct 2017 – Mar 2018
Munich, Germany

EDUCATION

Ph.D. in Statistics

Department of Statistics, LMU

Oct 2019 – Dec 2023
Munich, Germany

- Committee: Prof. Dr. Bernd Bischl, Prof. Dr. Torsten Hothorn, Prof. Dr. Marvin Wright and Prof. Dr. Frauke Kreuter
- Thesis topic: Causality concepts in machine learning - heterogeneous treatment effect estimation with machine learning & model interpretation with counterfactual and semi-factual explanations
- Final grade: 0.7 (summa cum laude)

Master of Science Statistics

Department of Statistics, LMU

Oct 2016 – Sep 2019
Munich, Germany

- Thesis topic: Counterfactual explanations
- Final grade: 1.17 (very good)

Bachelor of Science Statistics

Department of Statistics, LMU

Oct 2013 – Jun 2016
Munich, Germany

- Minor: Geography
- Thesis topic: Empirical comparison of ordinal regression models
- Final grade: 1.24 (very good)

TEACHING ACTIVITIES

Teaching Assistant

Department of Statistics, LMU

Oct 2019 – May 2024

Munich, Germany

- Supervisor Innovation Lab Big Data Science (WS 22/23 & WS 21/22)
- Exercise instructor Advanced Machine Learning (SS 22) & Lifetime Data Analysis (WS 20/21)
- Supervisor for seminars on causal inference and its intersection with machine learning (WS 23/24, SS 22 & SS 21), and ethics in AI (WS 20/21)
- Exercise instructor Object-oriented Programming with Python and Machine Learning with Python (WS 18/19 & WS 17/18)

Trainer Software Courses

Essential Data Science Training GmbH

Sep 2021– May 2024

Munich, Germany

- Introduction to machine learning and the `mlr3` universe of packages in R
- Introduction to interpretable machine learning and the `iml` package in R

AWARDS & FUNDING

- **2022 - 2024** Funded through the Statistische Bundesamt (DESTATIS) as part of the research corporation with the LMU Munich titled “Methodische Aspekte des maschinellen Lernens in der amtlichen Statistik”
- **2020 - 2024** Funded through the Mentoring Program of the LMU Munich
- **2020 - 2021** Funded through the Federal Ministry of Education and Research (BMBF), Germany, as part of the Munich Center for Machine Learning (MCML)
- **2020** Winner “Datathon for Grand Challenges on Climate Change”, Helmholtz Information & Data Science Academy
- **2020** Selected for Young Statisticians Session, GMDS & CEN-IBS 2020
- **2017** Funded through the Deutschlandstipendium of the Federal Ministry of Education and Research, Germany

OTHER ACTIVITIES

- **2020 - Today** Reviewer:
 - Journals: Biometrical Journal, ACM Computing Surveys, Statistics in Medicine, Statistical Methods in Medical Research, Journal of Statistical Software, Data Mining and Knowledge Discovery
 - Conferences: ECML PKDD 2023
- **2023 - 2024** Co-Organizer of Data Science for Social Good (DSSGx Munich), LMU
- **2020 – 2022** Academic Staff Representative, Department of Statistics, LMU
- **2021** Co-Organizer of Data Science for Social Good (DSSGx UK), University of Warwick and LMU Munich
- **2020** Co-Organizer of useR! 2020, The R User Conference, LMU
- **2016 – 2018** Intern American Modern Insurance Group in Cincinnati, USA, and Munich Re in Munich, Germany

Zurich, 7th of June 2024