

NORA SCHNEIDER

ELLIS PhD Student at Helmholtz AI & TU Munich

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Github:

github.com/NoraSchneider

Portfolio:

noraschneider.github.io

EDUCATION

Technical University of Munich

PhD in Computer Science

- ELLIS PhD Student supervised by Prof. Niki Kilbertus & Prof. Mihaela van der Schaar
- Focus on causality, dynamical systems and biomedical applications

Munich, Germany

since 09/2024

Eidgenössische Technische Hochschule (ETH) Zurich

MSC in Data Science, GPA: 5.64 (6.0 = best, 4.0 = passing)

- Thesis on causality for perturbation modeling supervised by Prof. Andreas Krause
- Focus on ML, causality and biomedical applications

Zurich, Switzerland

09/2021 – 06/2024

Karlsruhe Institute of Technology (KIT)

BSc in Industrial Engineering and Management, GPA: 1.2 (1.0 = best, 4.0 = passing)

- Thesis on cluster validation supervised by Prof. Oliver Grothe

Karlsruhe, Germany

10/2017 – 03/2021

University of Technology Sydney

Visiting Student

Sydney, Australia

07/2019 – 11/2019

PROFESSIONAL EXPERIENCE

Helmholtz Munich, Helmholtz AI | Doctoral Research

Munich, Germany

since 09/2024

KPMG, Digital Innovation | Data Science Working Student

- Developed ML platform enhancements for compliant & efficient AI processes.
- Data lakehouse project: Integrated source systems through a self-developed CLI tool that automated schema and Azure generation using PySpark transformations.

Zurich, Switzerland

11/2021 – 06/2023

KPMG, Value Chain Transformation | Intern

- Microsoft Powerplatform project: Developed data models and applications for ESG processes, integrated in-house ML platform

Munich, Germany

04/2021 – 08/2021

KIT, Institute for Operations Research | Research Assistant

Karlsruhe, Germany

05/2020 – 03/2021

- Developed electricity load forecast models using autoregressive models
- Preprocessed wind and solar data to facilitate power generation inference

Hella, Manufacturing Engineering & Quality Control | Intern

Hamm, Germany

11/2019 – 02/2020

KIT, Institute for Material Handling and Logistics | Research Assistant

Karlsruhe, Germany

01/2019 – 06/2019

PUBLICATIONS

Nora Schneider, Lars Lorch, Niki Kilbertus, Bernhard Schölkopf, Andreas Krause. *Generative Intervention Models for Causal Perturbation Modeling*. International Conference on Machine Learning (ICML), 2025.

Nora Schneider, Shirin Goshtasbpour, Fernando Perez-Cruz. *Anchor Data Augmentation*. Neural Information Processing Systems (NeurIPS), 2023.

TECHNICAL SKILLS & LANGUAGES

Programming Languages: Python, R, Java, Matlab, SQL, NoSQL

Libraries: JAX, PyTorch, Numpy, Pandas, Scikit-Learn, Transformers, Keras, Gensim, NLTK, PySpark

Tools & Platforms: Git, SLURM, LaTeX, Docker, MS Office, MS Azure, MS Power Platform

Languages: German, English, French