M.Sc. Leonard Papenmeier

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Education and Training

since 2020	Ph.D. Student in **Machine Learning and Bayesian Optimization**, Lund University, Lund, Sweden (expected graduation date: June 2025)
2017 - 2020	Master **Applied Computer Science**, Ruhr-University Bochum (final grade: 95% / "excellent")
2019 - 2019	Master Exchange semester, **Data Science**, NMBU, Ås, Norway
2013 - 2017	Bachelor **Software Engineering**, University of Applied Sciences and Arts, Dortmund

Work Experience

2024	Research Intern at Bosch Research, Renningen
2018 - 2020	Working student: Deep Learning and Computer Vision, img.ly GmbH, Bochum
2017 - 2018	Working student: Full-stack software development, adesso AG, Cologne
2013 - 2016	Apprentice: IT Specialist for Application Development, adesso AG, Dortmund

Publications

2025

Leonard Papenmeier, Matthias Poloczek, and Luigi Nardi. Understanding High-Dimensional Bayesian Optimization. *arXiv preprint arXiv:2502.09198*, 2025 (Under review)

Leonard Papenmeier, Nuojin Cheng, Stephen Becker, and Luigi Nardi. Exploring Exploration in Bayesian Optimization. *arXiv preprint arXiv:2502.08208*, 2025 (Under review)

Nuojin Cheng, Leonard Papenmeier, Stephen Becker, and Luigi Nardi. A Unified Framework for Entropy Search and Expected Improvement in Bayesian Optimization. *arXiv preprint arXiv:2501.18756*, 2025 (Under review)

2023

Erik Orm Hellsten, Carl Hvarfner, Leonard Papenmeier, and Luigi Nardi. High-dimensional Bayesian Optimization with Group Testing. *arXiv preprint arXiv:2310.03515*, 2023 (Under review)

Leonard Papenmeier, Luigi Nardi, and Matthias Poloczek. Bounce: Reliable high-dimensional Bayesian optimization for combinatorial and mixed spaces. *Advances in Neural Information Processing Systems*, 36:1764–1793, 2023

2022

Leonard Papenmeier, Luigi Nardi, and Matthias Poloczek. Increasing the scope as you learn: Adaptive bayesian optimization in nested subspaces. *Advances in Neural Information Processing Systems*, 35:11586–11601, 2022

2017

Leonard Hövelmann and Christoph M. Friedrich. Fasttext and Gradient Boosted Trees at GermEval-2017 on Relevance Classification and Document-level Polarity. 2017

Programming Languages / Frameworks / Markup Languages

Python, PyTorch, Keras, Java, JavaScript, HTML, CSS, Spring Framework, Angular, Typescript

Software Engineering

Unit Testing, Git, Databases (MySQL, MongoDB), Docker, Software design

Reviewing Service

International Conference on Machine Learning (ICML) 2025
INFORMS Journal on Computing
AutoML Conference 2024
Technometrics
IEEE Transactions on Evolutionary Computation
Journal of Machine Learning Research (JMLR)
AutoML Conference 2023
ISAAC 2022
AutoML Conference 2022

Relevant Courses

Deep Learning and GANs (postgraduate course)
Theory of Machine Learning (graduate & postgraduate courses)
Graphical Models, Bayesian and Statistical Relational Learning (postgraduate course)
Machine Learning - Supervised methods (graduate course)
Machine Learning - Unsupervised methods (graduate course)
Machine Learning - Evolutionary algorithms (graduate course)

Scholarships

2017 - 2020	Scholarship of the Friedrich-Ebert Foundation

Languages

German	native language
English	fluent (C1)
French	intermediate (B1)

Other Qualifications

since 2024	Supervision of one Bachelor and two Master theses
since 2022	Teaching Assistant for *Advanced Applied Machine Learning*
since 2020	Teaching Assistant for *Applied Machine Learning* and *Artifical Intelligence*
2015	Certified Professional for Requirements Engineering (IREB), Foundation Level