

# Leonard Papenmeier

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## Education and Training

since 2020	Ph.D. Student in <b>Machine Learning and Bayesian Optimization</b> , Lund University, Lund, Sweden (expected graduation date: June 2025)
2017 - 2020	Master <b>Applied Computer Science</b> , Ruhr-University Bochum (final grade: 95% / “excellent”)
2019 - 2019	Master Exchange semester, <b>Data Science</b> , NMBU, Ås, Norway
2013 - 2017	Bachelor <b>Software Engineering</b> , 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. <i>arXiv preprint arXiv:2502.09198</i> , 2025 (Accepted at the Forty-Second International Conference on Machine Learning)  Leonard Papenmeier, Nuojin Cheng, Stephen Becker, and Luigi Nardi. Exploring Exploration in Bayesian Optimization. <i>arXiv preprint arXiv:2502.08208</i> , 2025 (Under review)  Nuojin Cheng, Leonard Papenmeier, Stephen Becker, and Luigi Nardi. A Unified Framework for Entropy Search and Expected Improvement in Bayesian Optimization. <i>arXiv preprint arXiv:2501.18756</i> , 2025 (Accepted at the Forty-Second International Conference on Machine Learning)
2023	Erik Orm Hellsten, Carl Hvarfner, Leonard Papenmeier, and Luigi Nardi. High-dimensional Bayesian Optimization with Group Testing. <i>arXiv preprint arXiv:2310.03515</i> , 2023 (Under review)  Leonard Papenmeier, Luigi Nardi, and Matthias Poloczek. Bounce: Reliable high-dimensional Bayesian optimization for combinatorial and mixed spaces. <i>Advances in Neural Information Processing Systems</i> , 36:1764–1793, 2023
2022	Leonard Papenmeier, Luigi Nardi, and Matthias Poloczek. Increasing the scope as you learn: Adaptive bayesian optimization in nested subspaces. <i>Advances in Neural Information Processing Systems</i> , 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

## Patents

2024 | “Data-efficient multi-objective optimization leveraging information from related tasks”  
*Status: Patent filed. Co-inventor: Petru Tighineanu*

## Talks

2025 | “Understanding High-Dimensional Bayesian Optimization” *Talk at the [AutoML Seminar](#)*

## Reviewing Service

AutoML Conference 2025  
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

## 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

## 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 *Artificial Intelligence*  
2015 | Certified Professional for Requirements Engineering (IREB), Foundation Level