## Lena Maria Stempfle

stempfle@chalmers.se

LinkedIn

PhD student in machine learning for health care with particular interest in interpretability and prediction with missing values. Current interests also centre around causal inference and causality in health care settings and working with registry data.

08/2020 – present	Chalmers University of Technology, Gothenburg/Sweden
	PhD Candidate in Machine Learning for Healthcare
	Interpretable machine learning
	<ul> <li>Predictions under missing values</li> </ul>
	Causal Inference & causality
08/2020 – present	Wallenberg AI, Autonomous Systems and Software Program (WASP),
	Sweden
	Graduate Student
04/2024 – 05/2024	PreMeDICaL Inria-Inserm team Montpellier, Montpellier/France
	Visiting research student
	Predictions under missing values in context of TraumaBase
	<ul> <li>User study to evaluate interpretable machine learning and missing values</li> </ul>
10/2017 – 07/2020	Karlsruhe Institute for Technology (KIT), Karlsruhe/Germany
	M.Sc. in information systems and management
	Thesis topic: Time series analysis for the recognition of behavioural
	parameters in people with dementia
01/2019 - 06/2019	Chalmers University of Technology, Gothenburg/Sweden
	Erasmus Exchange Program in Computer Science
PUBLICATIONS	
	MINTY: Rule-based models that minimize the need for imputing fea
	with Mmissing values, Lena Stempfle and Fredrik D. Johansson

**Under Review** 

Sharing pattern submodels for prediction with missing values, Lena Stempfle, Ashkan Panahi, Fredrik D. Johansson AAAI Conference on Artificial Intelligence. 37, 8 (Jun. 2023), 9882-9890

Predicting progression & cognitive decline in amyloid-positive patients with Alzheimer's disease, Dansson et al.

Alzheimer's Research & Therapy volume 13, Article number: 151 (2021)

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08/2020 –	present
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## Chalmer University of Technology & University of Gothenburg, Sweden

Teaching assistant and lecturer on master level

- Introduction to data science
- Design for AI systems
- Research methods in data science
- Causality & causal inference

## PROFESIONAL EXPERICENCE

07/2019 - 07/2020Institute for Information Infrastructure at KIT, Karlsruhe/Germany Research Assistant • Research support in data analytics for health care data • Creation and performance of human-computer experiments 10/2018 - 01/2019Institute for Information Systems and Marketing (IISM) and Chair for Information Systems and Service Design at KIT, Karlsruhe/Germany Research Assistant • Implementation of a research design online tool Teaching assistant for "Information systems and digital health" Health care Lab @Karlsruher Service Research Institute (KSRI) and 11/2017 - 08/2020 department of operations research, Karlsruhe/Germany Research Assistant Simulating layout planning for hospital emergency rooms using ML • Organization of the science conference Operational Research Applied to Health Services (ORAHS) 2019 04/2015 - 12/2016Fraunhofer Institute for Applied Information Technologies (FIT), Competence centre for finance and information management, **Bayreuth/Germany** Research Assistant • Support for applications in publicly funded projects (HORIZON 2020)

## **PROGRAMMING & LANGUAGES**

Coding languages	Python, R, SQL und HTML	_			
Languages	German - mother tongue, English - professional, French, Spanish and Swedish - basics				
VOLUNTEER WORK & SUMMER SCHOOLS					

• Support in research projects in information systems & mobility

VOLUNTEER WORK & SUMMER SCHOOLS				
10/2022 – 10/2023	Member of Computer Science and Engineering Ph.D. Council,			
	Chalmers University of Technology			
10/2022 – 10/2023	Co-organizer of Machine Learning seminar @ Data Science and AI division,			
	Chalmers University of Technology			
08/2021	Summer School Data Science and AI in Health (online)			
	Gröningen/ Netherlands			
08/2021	Eastern European Machine Learning Summer School (online)			
	Budapest/ Hungary			

05/2020

Speaker @ Women in Data Science Conference- Sideways into Data Science

07/2019 - 2023

Founder of the non-profit organization - she.codes@KIT Programming courses for girls by female students