

Bart-Jan Boverhof

bjboverhof@gmail.com

[Personal Website](#)

[GitHub](#)

ABOUT ME	I am a graduated student of methodology and statistics at Utrecht University. My interest mostly lies in machine learning & deep learning. Please also consult my personal website for more information.	
INTERESTS	Machine Learning, Deep Learning, Explainable AI, Medical AI, Open Science, Bayesian Inference, Data Visualisation	
EDUCATION	Utrecht University , The Netherlands	2019-2021
	M.Sc. Methodology and Statistics for the Behavioural, Biomedical and Social Sciences Thesis: "Physiological sensor based prediction of mental workload: A multimodal deep learning approach"	
	Utrecht University , The Netherlands	2017-2019
	B.Sc. Sociology Thesis: "The Hidden Markov Model: Practical guidelines regarding the sufficient length of a time series and the required degree of heterogeneity of the hidden states."	
EXPERIENCE	PhD Candidate	March 2022 – Present
	Erasmus School of Health, Policy and Management - Erasmus University Advisors: Prof. Dr. RMPMH Rutten - van Molken and Dr. WK Redekop <i>Project title :Health Technology Assessment for Artificial Intelligence</i>	
	Research Intern	May 2021 – September 2021
	ASReview - Active learning for Systematic Reviews Advisors: Prof. Dr. Rens van de Schoot and Dr. Ayoub Bagheri <i>Project title: Exploration of (deep) neural network architectures in systematic reviews with ASReview</i> <ul style="list-style-type: none">• Participated within-, and contributed towards, an open-source software project for automated systematic reviews• Developed and implemented various deep neural network architectures for text classification in a systematic review• Conducted a simulation study contrasting the performance of various models	
	Research Assistant	February 2021 – July 2021
	Department of Methodology Statistics, Utrecht University Advisor: Dr. Vera Toepoel <i>Organisation ninth edition of the European Survey Research Association conference</i> <ul style="list-style-type: none">• A range of activities regarding the organisation of a scientific conference• Chairing and monitoring several parallel conference sessions	
	Research Assistant	February 2020 – December 2020
	Department of Methodology Statistics, Utrecht University Advisor: Dr. Peter Lugtig <i>Organisation second edition of the BigSurv20 - Big data meets survey science - conference</i> <ul style="list-style-type: none">• A range of activities regarding the organisation of a scientific conference	

Research Assistant

July 2018 – May 2019

National Institute for Public Health and the Environment, Utrecht

Advisor: Dr. Vera Toepoel

Data collection European Union Physical Activity and Sport Monitoring System (EUPASMOS) project

- Instructing participants in utilising physical monitoring equipment
- Interviewing participants regarding their physical health and physical activity

PUBLICATIONS **Boverhof, B.J.**, van de Schoot, R., & Bagheri, A. (2021, September). ASReview Convolutional Neural Network with HPO plugin *Zenodo*. <https://doi.org/10.5281/zenodo.5464656>

IN-PROGRESS PUBLICATIONS **Boverhof, B.J.**, Simons, J., & Aarts, E. (*in-progress*). *Working title*. The Hidden Markov model: Practical guidelines regarding the sufficient length of a time series and the required degree of heterogeneity of the hidden states.

SKILLS AND PROFICIENCY **Programming skills**
Python, R, Keras, PyTorch, TensorFlow, Scikit-learn, Git, L^AT_EX, SPSS, JAGS, WinBUGS, Mplus, HLM

Language Ability
Native in Dutch, Proficient in English, Moderate in German

RELEVANT COURSEWORK	<p>Utrecht University (M.Sc.) Human Centered Machine Learning Mathematical Statistics Markup Languages & Reproducible Programming Bayesian Statistics</p> <p>Utrecht University (B.Sc.) Programming with Python Measurement and Modelling with Social Data Social Networks in Theory & Empirical Research</p>	<p>Biomedical Statistics Computational Inference with R Research Seminar Multilevel and Structural Equation Modeling</p> <p>Missing Data Theory and Causal Effects Theory Construction and Statistical Modeling Conducting a Survey</p>
---------------------	--	--