Ann-Kathrin Schalkamp

Curriculum Vitae

Improving patient outcomes and medical decision processes through data driven approaches.

First Author Nature Medicine		Proficient with a diverse	Rapid Research Output:
Publication: Developed a predictive model using smartwatch data to identify Parkinson's seven years before clinical diagnosis in the general population, outperforming existing markers.		range of data: Completed projects using data from genetics, biospecimen, brain imaging, digital sensors, clinical assessments, and EHRs.	Authored five first-author articles and contributed to three additional publications within three years.
	Education		
01/2021-01/2024	 Ph.D. passed without corrections, Cardiff University, Biomarkers, Machine Learning, High Performance Computing. initiated projects on digital biomarkers leading to three publications created and compared risk prediction models based on biological, clinical, and digital data performed longitudinal data analysis with mixed models and assessed prognostic value conducted first quantitative comparison of data-driven Parkinson's disease subtypes 		
10/2018-11/2020	M.Sc. Cognitive Science <i>first-class</i> , <i>University of Tübingen</i> , Statistical and Probabilistic Machine Learning, Computational Psychiatry, Data Literacy.		
10/2015-09/2018	B.Sc. Cognitive Science <i>first-class</i> , <i>University of Osnabrück</i> , Linear Algebra, Statistics, Algorithms and Data Structures, Neurobiology, Neuropsychology.		
01/2024-06/2024	Research Assistant , <i>Imperial College London: Translational Machine Intelligence Lab.</i> digital risk marker for Parkinson's disease, digital monitoring of non-motor symptoms		
10/2019-04/2020	Laboratory Internship, University of Tübingen: NeuroMADLAB. performed a mega-analysis of functional brain imaging data for depression classification.		
03/2019-03/2020	Research Assistant , University of Tübingen: Methods of Machine Learning. implemented a vectorised version of latent dirichlet allocation for topic modelling.		
10/2016-04/2017	Teaching Assistant , <i>University of Osnabrück: Department of Computer Science</i> . tutored the course Algorithms and Data Structures.		
	Achieveme	nts	
Awards	 runner-up f best talk av runner-up f 	or PGR student of the year 2023 vard at UKDRI PD ECR meeting 2023 or research proposal at UCL biomarker	r course 2022
Engagement	invited talknewspaper	at Parkinson's awareness Day 2023 and radio interviews including BBC ne	ws

o participated in Neurohack 2022 with a project on dementia diagnosis

Skills

Programming python (pandas, scikit-learn, pymc3, tensorflow), R (Ime4, brms), Matlab (SPM) Domain Knowledge Parkinson's, digital health technologies, clinical assessments