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Skills_

Techniques Bayesian Statistics, Machine Learning, Reinforcement Learning, Optimisation, Hypothesis Testing, Visualisation

Languages Python, MATLAB, JavaScript, Git

Data Science Scikit-Learn, PyTorch, SciPy, PyMC, SQL, NumPy, Pandas, SLURM **Communication** English (Fluent), Dutch (Mother Tongue), German (Intermediate)

Education

PhD Cognitive Computational Neuroscience

Berlin, Germany

NEUROCOMPUTATION AND NEUROIMAGING UNIT, FREE UNIVERSITY BERLIN

Oct. 2018 - PRESENT

- · Bayesian statistics, exploration-exploitation, reinforcement learning, information theoretic modeling
- Admission to competitive doctoral program: Berlin School of Mind and Brain
- DAAD Research Scholarship

MSc Research Master in Cognitive and Clinical Neuroscience

Maastricht, Netherlands

MAASTRICHT UNIVERSITY

Oct. 2015 - Sep. 2017

BSc Psychology

Maastricht University

Maastricht, Netherlands Oct. 2012 - Sep. 2015

BSc Industrial Engineering

Eindhoven, Netherlands

TECHNICAL UNIVERSITY EINDHOVEN

Oct. 2014 - Sep. 2015

• Promoted to second year but ended voluntarily.

Experience

Research Assistant London, UK

KING'S COLLEGE LONDON, DEPARTMENT OF NEUROIMAGING

Jul. 2017 - Sep. 2018

• Large-scale brain imaging research and analysis leading to two publications

Large-scale brain imaging research and analysis leading to two publications
 Project coordination and communication with scientists, radiologists, pharmacological industry, and medical staff

MSc Student Intership

London, UK

KING'S COLLEGE LONDON, DEPARTMENT OF NEUROIMAGING

Nov. 2016 - Jul. 2017

• Application of multiple brain imaging techniques and analyses (fMRI, MRS, EEG)

· Independent Component Analyses to study both temporal and spatial networks of brain activity to pharmacological intervention

Research Assistant

Maastricht, Netherlands

Aug. 2016 - Nov. 2016

• Designing, programming, and piloting experimental work using high-field MRI

Extracurricular Activity _

Deep Learning Summer School

Online

NEUROMATCH

Aug. 2021

- Gained experience designing, training, and deploying deep learning models in PyTorch
- Group project implementing Q-learning (deep reinforcement learning agents)

Courses

DATA SCIENCE:

- Mathemathics for Machine Learning Coursera.com
- Statistics for Data Science Free University, Berlin (2019)
- Computational Neuroscience Coursera.com

Publications

Neural surprise in somatosensory Bayesian learning [link]

PLOS Computational Biology 2021, GIJSEN, S, ..., BLANKENBURG, F

Active inference and the two-step task [link]

Scientific Reports 2022, GIJSEN, S, GRUNDEI, M, BLANKENBURG, M

The effect of ketamine and D-Cycloserine on the high frequency resting EEG spectrum in humans [link]

Scientific Reports 2022, NOTTAGE, J F, ..., GIJSEN, S, MITUL, M

The GPR139 agonist TAK-041 produces time-dependent alterations to cerebral blood flow and reward system function in patients with schizophrenia: a randomised placebo-controlled trial

Under Review, Hawkins, P C T, ..., Gijsen, S, ..., Laurenza, A

EEG mismatch responses in a multi-modal roving stimulus paradigm provide evidence for probabilistic inference across audition, somatosensation and vision [link]

bioRxiv Grundei, M, Gijsen, S, Blankenburg, M