Wolf De Wulf

+44 7599 57 66 20

wolfdewulf.eu
wolf.de.wulf@ed.ac.uk
linkedin.com/in/wolf-de-wulf/
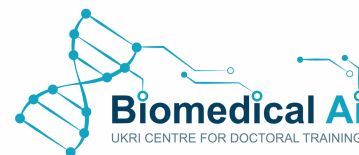
Education

PhD | Biomedical AI, Computational Neuroscience   2023 – …
University of Edinburgh   Edinburgh, United Kingdom
  - Supervision: Prof. Matthias Hennig & Prof. Matt Nolan

MScR | Biomedical AI (Distinction)   2022 – 2023
University of Edinburgh   Edinburgh, United Kingdom
  - Thesis: "Transformed-Based EMG Decoding for Control of Prosthetic Fingers"

MSc | Applied Sciences and Engineering: Computer science (93%)   2020 – 2022
Vrije Universiteit Brussel   Brussels, Belgium
  - Thesis: "Transfer learning in BCIs: Pretrained Transformers for Classifying EEG"

BSc | Computer science (84%)   2017 – 2020
Vrije Universiteit Brussel   Brussels, Belgium
  - Thesis: "LP2PB: Translating Answer Set Programs into Pseudo-Boolean Theories"

Training & Schools

Autumn School | Computational Neuroscience & Neuro-inspired AI   October 2023
Ulster University   Derry, United Kingdom

Summer School | Information & Communication Technologies   August 2018
Xidian University   Xi'an, China

Experience

Machine Learning Engineer   August 2021
Vrije Universiteit Brussel   Brussels, Belgium
  - Developed a proof-of-concept mobile application for psychologists to manage patients.
  - Machine learning was used to match patients to institutions.
  - Contact: Prof. Johan Loeckx

Teaching

Tutor & Marker   2023
Machine Learning & Pattern Recognition   University of Edinburgh

Honors and Awards

Vrije Universiteit Brussel Prize of Science   2022
BrEA Student Engineering Prize   2022

Skills

Languages: Dutch (Native), English (C1), French (C1)
Programming: Python, R, C++, C, Java, Scala, Prolog, Lisp
Machine Learning: Transformers (MSc thesis, MScR thesis), Reinforcement Learning (chess project)
Computation: Virtual Envs (Docker, Anaconda), High Performance Computing (Slurm, Kubernetes)

Research Output

Third place at NeurIPS Sensorium 2023 competition   2023
Spatiotemporal Transformer for predicting visual cortex activity from video fragments   Competition

Knowledge Graph Embeddings in the Biomedical Domain   2023
Under Review   Preprint

Transfer learning in BCIs: Language-Pretrained Transformers for Classifying EEG   2022
Proceedings of the Joint International Scientific Conferences on AI and Machine Learning   Conference

QMaxSATpb: A Certified MaxSAT Solver   2022
Logic Programming and Nonmonotonic Reasoning   Conference

Producing creative chess through chess engine selfplay   2021
Proceedings of the 12th International Conference on Computational Creativity   Conference

LP2PB: Translating Answer Set Programs into Pseudo-Boolean Theories 2020
Proceedings of the 36th International Conference on Logic Programming   Conference