

Wolf De Wulf

+44 7599 57 66 20

wolfdewulf.eu

wolf.de.wulf@ed.ac.uk

[linkedin.com/in/wolf-de-wulf/](https://www.linkedin.com/in/wolf-de-wulf/)



Education

Doctor of Philosophy (PhD) Computational Neuroscience	2023 – ... University of Edinburgh, United Kingdom
Master of Science by Research (MScR) Biomedical AI (Distinction)	2022 – 2023 University of Edinburgh, United Kingdom
Master of Science (MSc) Applied Sciences and Engineering: Computer science (93%)	2020 – 2022 Vrije Universiteit Brussel, Belgium
Bachelor of Science (BSc) Computer science (84%)	2017 – 2020 Vrije Universiteit Brussel, Belgium

Experience

NeuroAI Intern Predictive coding in the olfactory cortex, Albeanu Lab	Summer 2024 Cold Spring Harbor Laboratory, USA
Autumn School Computational Neuroscience & NeuroAI	October 2023 Ulster University, United Kingdom
MScR Thesis Transformer-Based EMG Decoding for Control of Prosthetic Fingers	2023 University of Edinburgh, United Kingdom
MSc Thesis Transfer learning in BCIs: Pretrained Transformers for Classifying EEG	2022 Vrije Universiteit Brussel, Belgium
Machine Learning Engineer (contact: Prof. Johan Loeckx) Developed an ML app to match patients with psychologists.	August 2021 Vrije Universiteit Brussel, Belgium
BSc Thesis LP2PB: Translating Answer Set Programs into Pseudo-Boolean Theories	2020 Vrije Universiteit Brussel, Belgium
Summer School Information & Communication Technologies	August 2018 Xidian University, China

Teaching

Tutor & Marker Machine Learning & Pattern Recognition	2023,2024 University of Edinburgh
---	--------------------------------------

Awards

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

Skills

Languages: Dutch (Native), English (C1), French (C1)
Programming: Python (Pytorch, JAX), 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)

Publications

- Aryo Pradipta Gema, Dominik Grabarczyk, **Wolf De Wulf**, Piyush Borole, Javier Alvaro, Antonio, Pasquale Minervini, Antonio Vergari, and Ajitha Rajan (2024). “Knowledge Graph Embeddings in the Biomedical Domain: Are They Useful? A Look at Link Prediction, Rule Learning, and Downstream Polypharmacy Tasks”. In: *Bioinformatics Advances*.
- Polina Turishcheva, Paul G. Fahey, Michaela Vystrčilová, Laura Hansel, Rachel Froebe, Kayla Ponder, Yongrong Qiu, Konstantin F. Willeke, Mohammad Bashiri, Ruslan Baikulov, Yu Zhu, Lei Ma, Shan Yu, Tiejun Huang, Bryan M. Li, **Wolf De Wulf**, Nina Kudryashova, Matthias H. Hennig, Nathalie L. Rochefort, Arno Onken, Eric Wang, Zhiwei Ding, Andreas S. Tolia, Fabian H. Sinz, and Alexander S Ecker (2024). “Retrospective for the Dynamic Sensorium Competition for predicting large-scale mouse primary visual cortex activity from videos”. In: *arXiv*.
- Dieter Vandesande, **Wolf De Wulf**, and Bart Bogaerts (2022). “QMaxSATpb: A Certified MaxSAT Solver”. In: *Proceedings 16th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR)*. Lecture Notes in Computer Science. Springer.
- Wolf De Wulf** and Bart Bogaerts (2020). “LP2PB: Translating Answer Set Programs into Pseudo-Boolean Theories”. In: *Proceedings 36th International Conference on Logic Programming (ICLP)*.