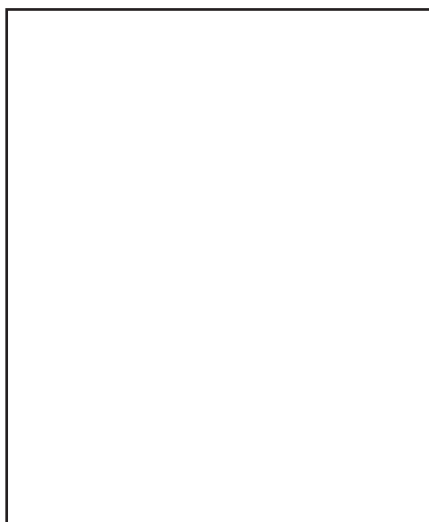


Rik L. E. M. Ubaghs



Contact/Kontakt

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Skills/Fähigkeiten

Languages: Dutch (Native)
English (Fluent)
German (Basic)

Programming: Python, Matlab,
Rust, R, SQL

Skills: Biomedical Imaging
Microscopy
Industrial design and
manufacturing

Profile/Kurzprofil

I am a neural engineer working on the interface between brain science and technology. Using skills from both (experimental) neuroscience, data science, and biomedical engineering, I develop new technologies that allow us to view the brain in more detail than ever before. I am also generally interested in brain-machine interfaces, machine learning, and systems neuroscience

Work Experience/Berufserfahrung

Research

Inst. of Neuroinf., ETH Zurich/Arago Labs Jun 2023 - current
Postdoc
- Development of a microscope for tumor visualization during invasive surgery.

Inst. of Neuroinf., ETH Zurich Jul 2017 - Jun 2023
Ph.D. Candidate
- Development of a MRI compatible florescence microscope (full-cycle product design).
- Design of a paradigm to combine microscopy and MR imaging methods in awake rodents.
- Design of data pipelines for multi-modal data analysis.

Center for Neuroeng., Duke University Dec 2015 - Nov 2016
Visiting Scientist
- Development of hybrid brain decoding methods in Non-human Primates.

Industry

Agora Technology Nov 2016 - Feb 2018
Co-Founder
- Agora Technology builds data solutions to streamline/automate daily operations in the medical sector.
- Creation, maintenance, and analysis of large-scale data solutions using advanced machine learning approaches.

Maastricht University Medical Centre Dec 2016 - Jun 2017
Data Scientist
- Design of a pipeline to process medical procedural data.
- Development of a centralized database for surgical protocols.

Education/Ausbildung

Ph.D. Neurotechnology	ETH Zürich	Jul 2017 - Jun 2023
Res. M.Sc. Brain and Cognitive Sciences (Cum Laude)	University of Amsterdam	Sep 2014 - Jun 2016