



Koen Raijer

Curious and diligent researcher in neuropsychology, medical doctor working in psychiatry, and soon-to-be data science graduate with excellent interpersonal and communication skills. Seeking a PhD position in translational neuroscience or computational psychiatry.

Experience

Medical doctor, Emergency Psychiatry, Zuyderland Medical Centre, Sittard. **11/2023 – now**

Part of outreaching psychiatric emergency team. Teaching experience: giving lectures to medical interns.

Researcher, Faculty of Neuropsychology, Maastricht University, Maastricht. **11/2023 – now**

- Raijer, K.P.J.M., Quaedflieg, C.W.E.M., Sobczak, S., & Peeters, M. (2024, April 24). Ambulatory assessment in post-traumatic stress disorder: a scoping review. <https://doi.org/10.17605/OSF.IO/CR5F8>
- Raijer, K.P.J.M., Sobczak, S., Quaedflieg, C.W.E.M., Peeters, M. & Ee, E. Van. Preliminary Report, "Wants and Needs for the Application of Wearables in the Treatment of Posttraumatic Stress Disorder: a Quantitative and Qualitative Exploration".
- Pre-proposal, Hersenstichting OWNG 2024, "Wearable-assisted trauma-focussed therapy".
- Pre-proposal, ZonMw Open Competition 2023, "INSIDE: real-time intrusion-induced stress detection".
- Application, OpenSSI 2022c, Small-Scale Initiatives in Machine Learning, "Measuring traumatic stress; from lab to bedside".

Research assistant, Faculty of Neuropsychology, Maastricht University, Maastricht. **11/2022 – 05/2023**

- Academic advising of master's students M. Al-omri & K. Monday, Digital Technology Engineering, Fontys University of Applied Sciences – "AI in healthcare: ML/DL for intrusion detection using physiological and psychological data of post-traumatic stress disorder patients".
- Development of research protocol on measuring traumatic stress.

Education

MSc Data Science & Society (Health), Tilburg University, Tilburg. Grade: 9.0 / 10. **2022 – 07/2024**

- **Thesis:** "Optimising Machine Learning Models for Intrusion-Induced Stress Prediction within the Intentional Memory Control Paradigm". **Keywords:** non-linear timeseries, Python, recurrent variational autoencoders, gradient-boosting, Bayesian hyperparameter optimisation.
- **Courses:** Deep Learning, Computational Statistics, Programming with R, Statistics and Methodology, Data Mining, Data Processing, Machine Learning, Regulation and Law.

MSc Medicine, Maastricht University. **2019 – 2023**

- **Final internship (semi-artsstage):** emergency psychiatry (crisisdienst), Mondriaan, Maastricht.
- **Science internship:** biosignal processing for people with suspected PTSD and dementia.
- **Electives:** 1. Community medicine, Mpumalanga South-Africa; 2. Medical Psychiatric Unit, Zuyderland MC, Sittard.

BSc Medicine, Maastricht University. **2016 – 2019**

- Honour's Programme FHML, "Personalised Nutrition and Genomic Feedback" (2017 – 2019).
- Studium Generale, Committee Member (2017 – 2019)

Secondary school, VWO (bilingual in English), College Den Hulster, Venlo. **2010 – 2016**

- Debating team member (2014 – 2016).
- Winner Limburg Youth Parliament (2015).

Courses

- edX Harvard CS50's Introduction to Computer Science (2020 - 2022)
- EPFLx Computational Neuroscience: Neuronal Dynamics of Cognition (2024 – now)

Skills

Languages: Dutch, English (IB Certification). **Programming:** Python, R, Javascript. **Libraries:** Tensorflow, numpy, hyperopt.

Hobbies

Weight training, road cycling, reading, web design, playing the tuba (dormant).