



ADRIAN LÜDER ASENDORF

GRADUATE IN NEUROSCIENCE

ABOUT ME

Date of Birth
27.03.1996, Berlin.

Languages:
English (C1 advanced)
Latin (small Latinum)



INTERESTED IN:

I am truly dedicated to Neuroscience and see this clinically relevant and future-orientated field as one of the most important emerging disciplines in biomedical sciences. I am very interested in computational neuroscience and am truly fascinated by analyzing techniques for the evaluation of experimental neuronal data. Currently, I am highly invested in the field of multimodal imaging and am investigating large-scale network connectivity in the context of the dopaminergic degeneration and network resilience in Parkinson's disease.

CONTACT

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ACADEMIC CAREER

Ph.D. in the Multimodal Neuroimaging (MMNI) group, University Hospital Cologne

03.01.2022–recent:

Supervisor: Univ.-Prof. Dr. Thilo van Eimeren, Dr. Merle Hönig
Dissertation: *Network dynamics of Resilience in PD.*

M.Sc. "Clinical and Experimental Neuroscience", University of Cologne

01.04.2019–31.12.21

Supervisor: Univ.-Prof. Dr. Thilo van Eimeren, Dr. Merle Hönig
Final thesis at the Multimodal Neuroimaging (MMNI) group, Cologne. Topic: *"Are disruptions in dynamic functional connectivity caused by disruptions in striatal dopamine deficiency in Parkinson's disease"*

B.Sc. "Biology", University of Bonn

01.10.2015–01.04.2019

Supervisor: PD Dr. Joachim Mogdans
Topic of Bachelor thesis: "Neurobiological investigations of the tectum opticum of carassius auratus under hydrodynamic and visual stimulation".

WORK EXPERIENCE

Department of Nuclear Medicine, University Hospital of Cologne

01.04.21- 31.04.21 → Supervisor: Dr. Merle Hönig
Internship: Data preprocessing and neuroimaging techniques

Department of Experimental Epileptology and Cognition Research, Life & Brain Center Bonn

14.09.20- 24.12.20 → Supervisor: Dr. Tony Kelly
Internship: Performing patch clamp recordings in epileptic mouse model.

Department of Experimental Neurophysiology, University of Cologne

28.07.20-11.09.20 → Supervisor: Dr. Filomain Nguemo
Second **lab rotation:** Multi array electrophysiological recordings in human Pluripotent Stem cell-derived Cardiomyocytes.

Department of Stereotactic and Functional Neurosurgery, University Hospital of Cologne

01.11.19-24.12.19 → Supervisor: Dr. Harald Treuer
First **lab rotation:** Time-dependent changes in the stability of directional electrodes in deep brain stimulation

Institute for Zoology, Bonn

05.2018–12.2018 → Supervisor: Dr. Joachim Mogdans
Study assistant: Collaboration in the organization, planning and conduction of seminars, correction of exams, execution of electrophysiological experiments.

PUBLICATIONS

Skills

Coding skills



■ R studio ■ Python ■ Matlab ■

- Asendorf, A. L., Theis, H., Tittgemeyer, M., Timmermann, L., Fink, G. R., Drzezga, A., Eggers, C., Ruppert-Junck, M. C., Pedrosa, D. J., Hoenig, M. C., & van Eimeren, T. (2024). Dynamic properties in functional connectivity changes and striatal dopamine deficiency in Parkinson's disease. *Human Brain Mapping, 45*(10), e26776. <https://doi.org/10.1002/HBM.26776>
- Banwinkler, M., Dzialas, V., Rigoux, L., Asendorf, A. L., Theis, H., Giehl, K., Tittgemeyer, M., Hoenig, M. C., & van Eimeren, T. (2024). Putaminal dopamine modulates movement motivation in Parkinson's disease. *Brain, 00*. <https://doi.org/10.1093/BRAIN/AWAE214>
- Hoenig, M. C., Dzialas, V., Banwinkler, M., Asendorf, A., Drzezga, A., & van Eimeren, T. (2023). Educational level and its association with dopamine transporter loss in patients with Parkinson's disease. *Parkinsonism & Related Disorders, 115*, 105844. <https://doi.org/10.1016/J.PARKRELDIS.2023.105844>
- Dembek, T. A., Asendorf, A. L., Wirths, J., Barbe, M. T., Visser-Vandewalle, V., & Treuer, H. (2020). Temporal stability of lead orientation in directional deep brain stimulation. *Stereotactic and Functional Neurosurgery*. <https://doi.org/10.1159/000510883>

CONFERNCES & AWARDS

2023 Poster presentation and awards of the poster:

"Dysruptions in dynamic function connectivity caused by striatal dopaminergic deficit" at:

2022 Poster presentation and awards of the poster:

"Dysruptions in dynamic function connectivity caused by striatal dopaminergic deficit" at:

15-18.09.22

Movement disorder society (MDS) Madrid

31.05.03.06.22

Poster price: Retreat SFB 1451

24-26.03.22

Poster price: Deutscher Kongress für Parkinson und Bewegungsstörungen (DPD)

15-18.03.22

Alzeimer's and Parkinson's disease (ADPD) Conference Barcelona