



# ADRIAN LÜDER ASENDORF

STUDENT OF NEUROSCIENCE

## ABOUT ME

### Date of Birth

27.03.1996 Berlin, Steglitz.

### 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 evaluation of experimental neuronal data. Currently I am highly invested in the field of multimodal imaging and am investigating largescale network connectivity in the context of the dopaminergic deficit observed 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:

Focus: Imaging, Neurodegenerative diseases, Movement disorders.

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

01.04.2019–31.12.21

Successful completion of Master of science in Neuroscience. 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

Successful completion of Bachelor of Science in Biology. Topic of Bachelor thesis: "Neurobiological investigations of the tectum opticum of *Carassius auratus* under hydrodynamic and visual stimulation".

## WORK EXPERIENCE

### As a Student Assistant:

**Institute for Zoology, Bonn**

05.2018–12.2018 → Supervisor: Dr. Joachim Mogdans

Field of activity: Collaboration in the organization, planning and conduction of seminars, correction of exams, execution of electrophysiological experiments

### As an Intern:

**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 on pyramidal cells of the hippocampus of the SCN2A epileptic mouse model.

**Department of Experimental Neurophysiology, University of Cologne**

28.07.20–11.09.20 → Supervisor: Dr. Filomain Nguemo

Second Lab rotation: Electrophysiological approach to examine the effect of Neurotransmitter Inhibitor on 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: Examination of time dependent changes in the stability of directional electrodes in deep brain stimulation (mostly Parkinson's and essential tremor)

## PUBLICATIONS

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>

## PRACTICAL EXPERTISE

Experienced in performing electrophysiological experiments.

→LFP/extracellular rec. in insects and fish, patch clamp in mice

Basic knowledge in creating histological sections.

→Cryostat, Vibratome, Nissl

Experienced in work with murine disease models and induced human as well as murine Pluripotent Stem cell derived Cardiomyocytes.

Strong in data analysis and the handling of patient data.

→ Well versed in Python, basic knowledge in Matlab.

Excellent in communicating scientific or complex topics and giving presentations.