

Antonia Kaiser

Postdoctoral Researcher - CIBM Center for Biomedical Imaging - École Polytechnique Fédérale de Lausanne (EPFL)

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Driven cognitive neuroscientist with expertise in advanced neuroimaging (MRI, MRS) and a passion for understanding the neural mechanisms of cognitive function and dysfunction. My work bridges cutting-edge methodology, open science principles, and translational research, aiming to innovate and contribute to the clinical and cognitive neuroscience fields. Dedicated to fostering collaborative research, mentoring, and advancing the frontiers of neuroimaging science.

Special expertise in the following areas:

Neuro MRI - MR Spectroscopy - Cognitive and Clinical Neuroscience - Experimental Design - Data Analysis - Statistics - Teaching.

Education

Ph.D. in clinically applied, cognitive Neuroscience

Department of Radiology and Nuclear Medicine,
Amsterdam UMC, University of Amsterdam

Sept.2017 – Jan.2023 Amsterdam, Netherlands

Challenging the Brain: Insights from comprehensive structural & functional MRI studies.

Master in Brain and Cognitive Science; Cognitive Neuroscience

University of Amsterdam

Sept.2015 – Aug.2017 Amsterdam, Netherlands

Bachelor in Cognitive Science

University of Osnabrück

Sept.2010 – Sept.2014 Osnabrück, Germany

Academic Work Experience

Postdoctoral Researcher

CIBM - Center for Biomedical Imaging, EPFL

Feb. 2023 – Jan.2026 Lausanne, Switzerland

Using 7T functional MR Spectroscopy to probe cognitive (dys)functioning of the human brain.

Research Position - 0.6fte

Department of Radiology and Nuclear Medicine; Amsterdam UMC, Vrije Universiteit

Feb. 2022 – Jan.2023 Amsterdam, Netherlands

Using Convolutional Neural Networks for denoising of MR Spectroscopy data.

Lecturer - 0.4fte

Bachelor Program Psychobiology; University of Amsterdam

Oct. 2021 – Jan.2023 Amsterdam, Netherlands

Coordinator of Masters course

Brain Organization and Cognition; Master Brain and Cognitive Science, University of Amsterdam

Sept. - Oct.2021 Amsterdam, Netherlands

Teaching Assistant

Master Brain and Cognitive Science, University of Amsterdam

Sept. - Oct.2016 Amsterdam, Netherlands

Research Assistant

Max-Planck-Institute for Human Development Berlin

Jan. - Apr.2015 Berlin, Germany

Research Intern

University of California Los Angeles - UCLA

Sep.2012 - Mar.2013 Los Angeles, California, USA

Teaching Experience

- Bachelor and Master courses:** Invited guest lectures on MRI and fMRI physics, and experimental design, Teaching Assistant in Master course about Neurophysiology. MRI live demos, tutorials/practicals on fMRI, MRS, and MRI analyses. Lecturer for the Bachelor Psychobiology, teaching a broad spectrum of courses (Philosophy, Neurophysiology, Electrophysiology, Experimental Design, Neuroimaging).
- Student Thesis supervision:** Bachelor-Theses: 8, Master-Theses: 17

Skills

- Languages:** German - native; English - fluent, professional; Dutch - fluent; French - Beginner
- Neuroscience:** MRI, fMRI, (f)MRS, Neuropsychological Testing, FSL-(MRS), SPM, Freesurfer, SPSS, Eprime, Graphpad PRISM, LCMoel, fmrip, BIDS, clpipe, fslmrs, FID-A
- Programming:** MATLAB, R, LaTeX, bash scripting, Python, Keras/tensorflow
- OS:** Windows, Linux
- Other:** excellent English communication and writing skills, interpersonal communication skills.

Awards

2024 - 1st Place, Poster Award - Swiss Society of Biological Psychiatry

2024 - 3rd Place, Presentation Award - MR in Psychiatry Study Group ISMRM

2022 - Presentation Prize - Current Issues in Brain Function Study Group ISMRM

2022 - Travel Grant Amsterdam University Fund, University of Amsterdam

2016 - Mind and Brain Award; Amsterdam Brain and Cognition, University of Amsterdam

- Award for interdisciplinary research into the etiology of Anorexia Nervosa.

Extra-Curricular Work

Trainee-Representative

MR in Brain Function Study Group ISMRM

📅 June 2024 – June 2025

Trainee-Representative

MR in Psychiatry Study Group ISMRM

📅 June 2024 – June 2025

Trainee-Representative

MR Spectroscopy Study Group ISMRM

📅 June 2023 – June 2025

Committee Board Member & Chair

Code and Data Sharing Committee - MRShub

📅 September 2022 – ongoing

Leading Moderator / MC

Radiology and Nuclear Medicine Research Day of the Amsterdam UMC

📅 June 2022

📍 Amsterdam, Netherlands

Volunteer for Project Fearless

Bouldering class for girls and non-binary children

📅 Nov.2021 – Jan. 2023

📍 Amsterdam, Netherlands

Board member of PhD association

APROVE - Amsterdam UMC

📅 Oct.2017 – June 2020

📍 Amsterdam, Netherlands

Organizational board member

Symposium and networking event - Amsterdam Brain and Cognition

📅 Feb. - Oct.2020

📍 Amsterdam, Netherlands

President of organizing committee

ISMRM Benelux Chapter

📅 Feb.2018 - Jan.2019

📍 Leiden, Netherlands

Co-organizer

International Conference of Cognitive Neuroscience - ICON

📅 Aug.2016 - Aug.2017

📍 Amsterdam, Netherlands

President of Student Union

COGNITO - Master Brain and Cognitive Science

📅 Sept.2015 - Aug.2017

📍 Amsterdam, Netherlands

Volunteer for Taste Before you Waste

Prevention of food waste

📅 Jan.2015 - Sept.2019

📍 Amsterdam, Netherlands

Visited Conferences

2024

ISMRM; Singapore (2x poster presentation & Pitch at MR in Psychiatry Study Group)

ISMRM MRS workshop; Boston (power pitch & poster presentation)

SSBP Symposium; Zurich (oral presentation & poster presentation)

2023

ISMRM; Toronto (secret session, trainee representative)

ESMRMB; Basel (poster presentation)

Functional MRS Symposium; Bangor (oral presentation)

2022

MRS Workshop; Lausanne (poster presentation)

ISMRM; London (pitch at the Current Issues in Brain Function Study group)

2021

ISMRM; online (oral presentation)

ISMRM benelux; online (oral presentation)

2020

Amsterdam Neuroscience; online

ISMRM; online (poster presentation)

ECNP; online (poster presentation)

ISMRM benelux; online

2019

Amsterdam Neuroscience (poster presentation)

ISMRM; Montreal (oral presentation)

ISMRM benelux; Leiden (poster presentation)

2018

Amsterdam Neuroscience (poster presentation)

ISMRM; Paris (poster presentation)

ISMRM benelux; Antwerpen (oral presentation)

2017

Amsterdam Neuroscience (poster presentation)

ECNP; Paris (poster presentation)

Peer-Reviews for Journals:

- Imaging Neuroscience
- NeuroImage
- Journal of Cerebral Blood Flow & Metabolism
- Magnetic Resonance in Medicine
- NMR in Biomedicine
- Journal of Magnetic Resonance Imaging
- Radiology
- Human Brain Mapping
- Biological Psychiatry
- Frontiers in Psychiatry
- Neuropsychopharmacology Reports
- and others.

Interests

- Sports: climbing, yoga, biking, running, swimming, fitness
- Music: dancing, singing, playing the flute
- Other: cats, hiking, nature, photography, environment