

Carry out your own PhD or Dr. med. project!

– in Medicine, Biology, Neuroscience –
supervised by

Prof. Katrin Amunts (C. and O. Vogt Institute for Brain Research, Düsseldorf)

Project description:

The Hector Fellow Academy offers you the opportunity to realize a self-developed research project under supervision Prof. Katrin Amunts. She is one of the Hector Fellows, a community of outstanding professors from different research institutions across Germany working in STEM-subjects, medicine, and psychology. Katrin Amunts is a world's leading expert on the development of a human brain atlas at microscopical scale. She has applied deep learning, image analysis and advanced computing to develop the Julich-Brain atlas and BigBrain, which have set new standards in the field of brain mapping, and enable to study relationships between structure and function.

Keywords

Human Brain, 3D Atlas, Deep Learning, temporal lobe, brain function

Entry requirements

You are enthusiastic about investigating and mapping the human brain. The temporal lobe is a largely unexplored region, and your work could help us better understand its anatomy and how it functions. You are open-minded about new methods, such as deep learning, and would like to incorporate them into your research project. The ultimate aim is to create 3D maps of the human temporal lobe and share them as FAIR data with the scientific community. You have a Master's degree in a scientific or engineering subject and achieved excellent grades.

Our Offer

- ✓ Opportunity to realize a research project with high visibility
- ✓ Be part of a strong interdisciplinary project with informaticists, biologists and physicians
- ✓ Mentored by an internationally renowned, top-level scientist
- ✓ Funded position (according to TV-L 13, up to 100%, based on the funding rates of the DFG for PhD students)
- ✓ Extensive research funding
- ✓ Membership in an excellent research network
- ✓ Additional management courses, trainings & networking events

Location

Cécile and Oskar Vogt Institute of Brain Research at the Heinrich-Heine University (HHU)

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Funding

Four years of funding (3+1, three years with the possibility to extend for one year)

How to apply

Please apply via the [HFA application portal](#).

The Hector Fellows will arrange interviews (via skype or if feasible in-person) with the most promising applicants. The final candidates will be invited to give an online presentation. The final decisions will be announced in the following days after the presentation.

Application Deadline

October 15, 2025

Enquiries

For further details about the project, please contact Hector Fellow at: Katrin.Amunts@uni-duesseldorf.de

For questions related to making your application, please contact Hector Fellow Academy Office: application@hector-fellow-academy.de or www.hector-fellow-academy.de