

A **3.5-year doctorate** research position will be available at the Chair of Developmental Psychology at the Institute of Psychology of the University of Innsbruck, supervised by Univ.-Prof. Dr. Dorothea Hammerer, **earliest starting date 1st of May 2023**.

Research at the Chair of Developmental Psychology (<https://www.hammerer-lab.com>) focuses on understanding the significance of neuromodulatory functions for cognition and behavior and why neuromodulatory systems are vulnerable in ageing and dementia. In exploring this, we use a variety of cognitive and physiological measures (cognitive tests, eyetracking, drug interventions, blood analyses, EEG, as well as functional and structural MRI with a focus on brainstem imaging).

The PhD project is part of an international collaboration with the Memory and Decision Lab at Brown University (<https://sites.brown.edu/mattlab/>) which focuses on understanding the relevance of neuromodulatory systems for flexible and context-specific behaviour using a combination of computational modeling of behavioral data and brain imaging. The role of the PhD in Innsbruck in this collaboration will be in particular to analyse brainstem imaging data and pupillometric data from younger adults in collaboration with computational modeling experts at Brown University. Furthermore, the PhD candidate is welcome to participate in ongoing lifespan research at the Chair of Developmental Psychology including adolescent or older participant groups using eyetracking recordings, EEG or MRI.

The candidate is expected to prepare and analyse data for publications and for presentations at international conferences as well as internal meetings at UIBK, and meetings with external collaborators. The chair of Developmental Psychology has close ties with the IKND at the German Research Centre for Neurodegenerative Diseases in Magdeburg, Germany (<http://www.iknd.ovgu.de/>) and the Institute of Cognitive Neuroscience (<https://www.ucl.ac.uk/icn/institute-cognitive-neuroscience>) as well as the Wellcome Trust Center for Human Neuroimaging at University College London (<https://www.fil.ion.ucl.ac.uk/>). A participation in these collaborations is expected. The candidate is also expected to help with the supervision of bachelors' and masters' theses as part of his / her research work. If topic and scope are fitting, individual grant applications of the PhD candidate are welcome and can be supported.

The candidate will be immersed in a stimulating and growing international research field that deals with the relevance of changes in the noradrenergic system. The candidate is made familiar with the most important current methods of examining the noradrenergic system in old age and integrated into the international research community on the subject. He/she leaves the PhD with an arsenal of methods that represents a unique selling point in a rapidly growing area of neuroscientific and ageing research and that will be of great relevance for future applications in the academic field.

The ideal candidate will have a master or diploma in a relevant discipline such as Psychology, Medicine, Physics, Biology, Neuroscience, Computer science, or another relevant subject for neurocognitive research. Experience with acquiring and analysing brain imaging data, with programming in Matlab or Python, and statistical analyses in R or SPSS are desirable. Very good knowledge of spoken and written English is also desirable.

The Institute of Psychology at the UIBK offers a stimulating and friendly work environment. As part of its recent expansion, the institute now has exclusive access to a 3T research scanner which supports the growing emphasis on cognitive neuroscientific research at the institute. The University of Innsbruck and Medical University of Innsbruck offer a stimulating research environment for cognitive neuroscientific research with the new research center 'Health and prevention across the lifespan' (<https://www.fz-gesundheit.at>) as well as local research groups and institutes focusing on neurocognitive research.

The application must be in English and contain the following, as pdf:

- cover letter referring specifically to the job profile (maximum 1 page)
- curriculum vitae, incl. experience with brain imaging and programming
- copies of certificates
- possible starting dates for the PhD
- list of peer-reviewed publications and research experience
- two letters of reference or two contacts for referees

We encourage **submission of applications as soon as possible** and **no later than the 23rd of March 2023**. Applications well before the deadline are encouraged.

Applications must be submitted via the following link (applications via email can not be considered): https://lfuonline.uibk.ac.at/public/karriereportal.details?asg_id_in=13320 (this requires creating a LFU:online account). We welcome applications from all sections of society, regardless of gender, race, ethnic or national origin, religion or belief, sexual orientation, disability or age. For this position, a collectively agreed minimum gross wage of €1,639/month (14 times per year including christmas pay etc.) is provided with an employment volume of 20 hours per week. Upon submission of the dissertation agreement this increases to 30 hours per week, and the remuneration will increase to € 2,458 (14 times). The salary might increase if relevant professional experience is available. In addition, the university offers numerous attractive additional benefits (<https://www.uibk.ac.at/universitaet/zusatzdienstleistungen/>).

For further information, please contact:

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