

Job ID: ISF082DOC220

The **Acoustics Research Institute (ARI)** of the Austrian Academy of Sciences (**OeAW**), Austria's leading non-university research facility, undertakes top-level research in auditory cognitive neuroscience, psychoacoustics and experimental audiology, acoustic phonetics, musicology and bioacoustics, physical and computational acoustics, and mathematics and signal processing. The close interaction of the working groups allows innovative research approaches through the synergistic effects of multidisciplinary research. Now ARI is offering a

PHD STUDENT POSITION (F*M)

(part-time, 30h/week)

The position is assigned to the Young Independent Researcher Group (YIRG) "*Dynamates – Dynamic Auditory Predictions in Human and Non-human Primates*" in Vienna. The YIRG Dynamates will be coordinated by Robert Baumgartner and investigated together with Ulrich Pomper and Michelle Spierings from the University of Vienna. It rests on a strong collaboration between cognitive neuroscience, cognitive biology, and computational modelling – for more information, see the [Dynamates website](#). The successful candidate will focus on the modelling part and mainly be supervised by Robert Baumgartner.

Responsibilities:

- Develop computational models for predictive auditory processing.
- Model-based analysis of behavioural and neural (EEG) responses to auditory sequences.
- Communication of scientific results in scientific publications and at scientific meetings.
- No teaching duties but options.

Requirements and qualifications:

- Master's degree or diploma with excellent scores in one of the following disciplines: computer sciences, engineering, or related fields.
- Excellent statistical and programming skills (e.g., Matlab, Python, R, etc.) are essential.
- Previous experience with computational modelling and Bayesian inference is much desired.
- General interdisciplinary experience, previous experience in working with physiological data (M/EEG, eyetracking), and strong interest in biology, psychology, and neuroscience are a plus.
- Profound knowledge of written and oral English is required.
- Flexibility, ability to work independently as well as in a scientific team are important.

This position is initially limited to 3 years, with the possibility of an extension. The desired starting date is flexible between October 2020 and February 2021. The annual gross salary is € 30.878,40 according to the collective agreement of the Austrian Academy of Sciences ([OeAW](#)).

Interested candidates should send a CV, copies of relevant certificates (MSc, diploma), names and full contact details of two referees, and a brief statement describing motivations, personal qualifications, and research interests by e-mail to robert.baumgartner@oeaw.ac.at (mentioning Job ID: ISF082DOC220). Applications will be accepted until an adequate candidate has been found. The first round of evaluation will start on the **September 1, 2020**.

Informal inquiries and questions can be addressed to Robert Baumgartner after August 17, 2020.

The Austrian Academy of Sciences (OeAW) pursues a non-discriminatory employment policy and values equal opportunities, as well as diversity. The OeAW lays special emphasis on increasing the number of women in senior and in academic positions. Given equal qualifications, preference will be given to female applicants.