

The **Acoustic Research Institute (ARI)** of the Austrian Academy of Sciences is offering a

PHD Student Position (any gender)

(part time, 30h/week)

ARI is an interdisciplinary research institution of Austria's leading non-university research facility. It 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.

The position is assigned to the EU Horizon 2020 granted project SONICOM, which deals with the way we interact socially within AR/VR environments. It aims to create a new generation of immersive audio technologies, specifically looking at personalisation and customisation of the audio rendering by means of machine-learning techniques. For more information, see the SONICOM website: <https://www.sonicom.eu/>

ARI's role within SONICOM is the work on immersion, integration, and the development of the SONICOM ecosystem. The successful candidate will work on immersion by developing a modelling framework integrating models of spatial hearing and active inference. The successful candidate will be supervised by Piotr Majdak (PI).

Responsibilities:

- Development and implementation of auditory models.
- Communication of scientific results in scientific publications and at scientific meetings.
- No teaching duties.

Requirements and qualifications:

- Master's degree (or equivalent) with excellent scores in a discipline related to research in hearing.
- Profound knowledge of written and oral English.
- Excellent programming skills in Matlab.
- Strong interest in systematic scientific work and integration into a multi-disciplinary research team.

The position is initially limited to three years. The starting date is flexible and will depend on the candidate's availability. This position is part-time 75% (30h/week). The gross salary is € 31.326,42 per year (before taxes, 14 payments a year). The successful candidate will have the option to be enrolled in the Phd program of the University of Music and Performing Arts, Graz.

Candidates should send a CV, copies of relevant certificates, and a brief statement describing motivation, personal qualification, and research interests to Piotr Majdak (piotr.majdak@oeaw.ac.at), who also can be contacted for informal inquiries and questions. Applications will be accepted until an adequate candidate has been found. The first round of evaluation will start in the September 2021.

The Austrian Academy of Sciences values diversity and is committed to equality of opportunity.