

DFG-funded (German Research Foundation) project on the plasticity of body representation of self and other in collaborative tasks seeks as a maternity leave replacement:

1 researcher position (Pre-/Postdoctoral) at TU Wien until 31.12.2024

The Autonomous Systems Lab at the Institute of Computer Technology at TU Wien (Technische Universität Wien) is looking for a researcher in the field of movement science, psychology, or human factors engineering. The candidate will participate the interdisciplinary project on “Plasticity of body representation of self and other in collaborative tasks (SOLAR)”. The appointed person will investigate interpersonal learning in a collaborative task and contribute to computational learning models of human robot collaboration. The SOLAR project aims (1) to investigate the plasticity of body representation within the context of a goal-directed human-human collaborative task, (2) to model an artificial self which can cooperate with a human partner by the gradual generation of a partner representation, and (3) to design a Turing test based on the goal-directed physical collaboration task.

Working environment:

The appointed researcher will be based at the Autonomous Systems Lab at the Institute of Computer Technology at TU Wien (Technische Universität Wien) under the supervision of Prof. Dongheui Lee at TU Wien and Dr. Leif Johannsen at Durham University. The new position offers the opportunity to engage in national and international collaboration in the DFG SPP priority program “Active Self II” and collaboration with the Institute of Robotics and Mechatronics at German Aerospace Center (DLR).

TU Wien has a longstanding, internationally recognized reputation for research, innovation and entrepreneurship. Vienna offers a high quality of living and is continuously winning awards as the best city to live in <https://www.mercer.com/newsroom/2019-quality-of-living-survey.html>.

Dongheui Lee leads “Autonomous Systems Lab” at the Institute of Computer Technology, TU Wien. <https://www.tuwien.at/en/etit/ict/asl> Previously, she has led the Human-centered Assistive Robotics lab at the Technical University of Munich (TUM) and the Human-centered assistive robotics group at the German Aerospace Center (DLR). Her research activities can be found at <https://www.tuwien.at/en/etit/ict/asl/team/dongheui-lee> and her google scholar page is <https://scholar.google.de/citations?hl=de&user=45Jr11YAAAAJ>.

Leif Johannsen is a senior scientist at Durham University, Department of Psychology. His research interest focusses on neural and human movement science and psychology.

SOLAR project team:

Dongheui Lee, Leif Johannsen, 1 engineering researcher and 1 behavioural researcher

Requirements:

- Master (or PhD) degree in movement science, psychology, human factors engineering or equivalent.
- Experience in empirical behavioural research involving human participants.
- Proficiency in writing and speaking English.
- Interdisciplinary thinking
- Publications in recognized conferences/journals

**Required documents:**

- CV
- Motivation letter including (i) topic name for application, (ii) a description of previous research experience and (iii) current research interests, outlining the fit to the topic area
- Transcripts of grades obtained for B.Sc. and M.Sc. degrees
- Certificates for Academic degrees
- (Part of) M.Sc./PhD Thesis and scientific publications (if any)
- Names of 2 references including contact details

Start: The possible starting date is as soon as possible. The position is likely to end on December 31 2024.

Applications: Interested candidates are invited to send application with a single pdf file to Dongheui Lee ([dongheui.lee@tuwien.ac.at](mailto:dongheui.lee@tuwien.ac.at)) and Leif Johannsen ([Leif.Johannsen@durham.ac.uk](mailto:Leif.Johannsen@durham.ac.uk)).