

We currently have an opening for a

PhD researcher on the topic of “Visual computing for ERP-based brain activity”

on a 100% TVL-13 position for 3 years.

We highly encourage applications from underrepresented groups, explicitly (but not exclusively) first-generation students, women, immigrants, parents, POC, LGBT*IQ.

The PhD position is closely linked to the Institute for Visualization and Interactive Systems (VIS). For the first 1.5 years, you will work in the SFBtr161 “Quantitative Methods for Visual Computing” and be included in their Graduate Training Program. The initial topic stretches from an analysis of current visualization techniques in ERP research, the design, implementation and documentation of new open-source interactive tools for traditional and regression-based ERP analyses, and finally their evaluation in novice and experts.

Due to strict funding rules, the position should **start as soon as possible** – initial remote work is possible.

What we offer:

- A small lab with direct supervision
- An "extended" lab with Andreas Bulling (HCI, ML)
- High scientific rigor
- Family-friendly and all-welcoming lab atmosphere
- Travel money for at least 1 large conference and one summer school/year
- Childcare budget for conferences
- Flexibility for own projects
- Flexibility for an internship in another lab (in Germany or abroad, depending on funding)
- After 2 years: An honest discussion how to prepare for careers in academia or industry
- Access to equipment relating to EyeTracking, EEG, VR, 3D printing, motion tracking etc.

What you should offer:

- A genuine interest in scientific advances
- Scientific integrity, confidence to question authority (as "science is the belief in the ignorance of experts"), and the ability to stand up for good science
- Coding skills (Julia/Python/R/Matlab preferred over C/C++/Java etc.)
- Experience with event-related time series (e.g., ERPs, BOLD/FIR-modelling)
- Best case: Statistic skills (especially multiple regression)
- Best case: Visual computing skills (e.g., user-studies, visualization)
- Background in cognitive science, statistics, neuroscience, visualization or related field
- You should be prepared to do some teaching (max. 1 course/semester) and B.Sc./M.Sc. supervision
- Excellent command of English in writing and speech. German is not required
- Being kind and open

Please do not hesitate to apply even if you do not check all the boxes.

Please submit your application (motivation letter, curriculum vitae, transcript of records, link to code examples (e.g., GitHub)) in **one single PDF file** and in an **additional PDF** file your master thesis (if not yet completed, recent report/paper/essay), via e-mail to benedikt.ehinger@vis.uni-stuttgart.de with the subject-line “[SFB-PhD] Lastname”. The position will be filled as soon as possible. If you have any questions, do not hesitate to contact us.

Information on how we handle applicant data in accordance with Article 13 of the EU General Data Protection Regulation can be found at <https://www.uni-stuttgart.de/en/privacy-notice/job-application/>.

The University of Stuttgart is committed to increasing its female-to-male staff ratio. Female candidates are therefore specifically invited to apply. Where qualifications are equal, persons with a severe disability will be given preference. As an employer, the University seeks to support the development of all its employees and helps them fulfil their individual potential. It advocates a good work/life balance and equal opportunities. The University of Stuttgart is a recognized “family-friendly employer” and a signatory to the Diversity Charter (“Charta der Vielfalt”) created by German organizations to promote diversity in business and society.