



## **FULLY-FUNDED PHD POSITION IN APPLIED MACHINE LEARNING** **- Visual Attention Modelling for** **Optimisation of Information Visualisations -**

The Chair for Human-Computer Interaction and Cognitive Systems at the University of Stuttgart, led by Prof. Dr. Andreas Bulling, invites applications for a fully-funded PhD position in Applied Machine Learning. The position is situated in the context of the DFG Transregional Collaborative Research Center “Quantitative Methods for Visual Computing”, in an environment that offers much **creative freedom** and support to conduct **cutting-edge research**.

### **QUALIFICATIONS**

A successful candidate has demonstrated **outstanding academic performance** (rank at top of class) and a strong technical background in the following area:

- **Machine learning**, e.g. deep learning, generative models, (inverse) reinforcement learning
- **Information Visualisation/Human-Computer Interaction**, e.g. design and empirical evaluation of adaptive information visualisations, user interface design

A strong interest in applying these methods to human-computer interaction, for example intelligent user interfaces, is required. **Excellent programming skills** are expected. Previous experience with Python, TensorFlow, or CUDA as well as prototyping, AR/VR, or visualisation/computer graphics is an advantage. Strong **team working** and **critical thinking skills**, aptitude for **independent and creative work**, as well as **fluent English written and presentation skills** are essential.

### **POSITION**

We offer a fully-funded PhD research position with a **flexible start date**. Salaries are internationally competitive based on state employee salary scheme TVL-E13 (100%) that includes health insurance, social insurance, and contributions to the retirement pension plan. You will develop, implement, and evaluate new computational methods, as well as write up the results for academic publication at **top international venues**, such as CVPR, ICCV, ECCV, or VIS. You will contribute to the **leadership of ongoing projects**, will have the opportunity to **advise undergraduate and graduate students**, and **contribute to the teaching activities** of the group.

### **ABOUT THE GROUP**

The Perceptual User Interfaces group works at the intersection of computer vision, applied machine learning and human-computer interaction. The group develops computational methods as well as ubiquitous and wearable systems to **address fundamental challenges in sensing, modelling, and analysing everyday non-verbal human behaviour**. The group is **well-known** for this line of work, has a **strong presence** in leading conferences in the above fields, and publications from the group are **frequently distinguished with best paper awards (16 in the last four years)**. You will work among **gifted colleagues** and **experienced scientists** and have access to **excellent infrastructure**. For details see: <https://www.perceptualui.org/>

### **APPLICATIONS**

Applications must be submitted by email and include a cover letter (describing research experience, fit for position and future interests), a CV, study transcripts, copies of high-school degrees, and contact information of two references. The application should also indicate earliest date of availability. Applications are considered until the position has been filled. Please send your application to [hcics-application@vis.uni-stuttgart.de](mailto:hcics-application@vis.uni-stuttgart.de). Should you have questions about the position, please contact Prof. Dr. Andreas Bulling <https://www.perceptualui.org/people/bulling/>