Job Announcement

Young, modern, and research oriented... the University of Potsdam has firmly established itself within the scientific landscape since its founding in 1991. Nationally and internationally renowned scientists teach and perform research here at Brandenburg’s largest university. The University of Potsdam is successful in acquiring third-party funds, delivers outstanding performance in technology and knowledge transfer, and has a very service-oriented administration. With about 21,000 students studying at three campuses – Am Neuen Palais, Griebnitzsee and Golm – the University of Potsdam is a prominent economic factor and engine of development for the region. The University of Potsdam has a total of over 3,000 faculty and staff members and is located in one of Germany’s most scenic areas.

The University of Potsdam, Faculty of Science, Institute of Computer Science invites applications for the following position within the Machine Learning Research Group:

Academic Staff Member (PhD student)
Requisition No.: 369/2020

The position is available from October 01st, 2020 or later. The salary is determined by the collective bargaining agreement for public employees in Germany (TV-L E13). The position is for 30 hours per week (75% of a full time contract). This is a temporary position limited until May 31, 2024 in accordance with Section 2 subsection 1 of the Academic Fixed-Term Contract Law (WissZeitVG).

The position is affiliated with the interdisciplinary Junior Research Group AEye – Artificial Intelligence for Eye tracking data. Deep Learning methods for the automated analysis of cognitive processes funded by the Federal Ministry of Education and Research. This research project aims to develop machine learning methods for the analysis of eye tracking data to make inferences about cognitive processes or mental states of an individual focusing on four application areas: diagnosis of developmental language impairments, adaptive e-learning, driver monitoring, and biometrics. The developed models shall take into account findings from cognitive psychology and linguistics about human eye movement behavior. The research group feels committed to open science.

Responsibilities:
- Developing machine learning methods (deep learning) for the analysis of eye tracking data
- Designing and conducting eye tracking experiments
- Interdisciplinary collaboration with our project partners
- Preparation of publications

Qualifications:
- Completed studies (MSc level) at an institute of higher learning in an appropriate discipline, e.g. computer science, artificial intelligence, (computational) cognitive science, computational linguistics, or computational neuroscience
- Theoretical and practical knowledge of machine learning methods including deep learning
- Very good programming skills (Python, Tensorflow)
- Very good knowledge of mathematical foundations (linear algebra, calculus, probability theory)
- Very good English language skills
We offer:

- independent work in a highly motivated team.
- Opportunity for scientific training and participation in national and international conferences and work-shops.
- Support for further academic qualification.

Under the laws of the federal state of Brandenburg, employees under this contract are permitted to dedicate at least 33% of their contract time for their scientific qualification.

The University of Potsdam aims to increase the proportion of women in research and teaching and therefore invites qualified applicants to apply. The University of Potsdam values the diversity of its members and pursues the goals of equal opportunities regardless of gender, nationality, ethnic and social origin, religion/belief, disability, age, sexual orientation or identity. In the case of equal suitability, women within the meaning of Section 7 (4) BbgHG and severely disabled people will be given preferential consideration. Applications from abroad and from persons with a migration background are expressly welcome.

Applications should include the following components: CV, names of two referees, letter of motivation, relevant academic certificates. Applications should be sent in a single PDF file to Dr. Lena Jäger (lena.jaeger@uni-potsdam.de) with the subject line “Job application AEye PhD”. Please send us your application as soon as possible, at latest on August 31, 2020. Do not hesitate to contact Lena Jäger in case you require any additional information.

Potsdam, July 22\textsuperscript{nd}, 2020