

Postdoc Position in Digital Health / Mobility Analytics

The Machine Learning and Data Analytics (MaD) Lab at the Friedrich-Alexander University Erlangen-Nürnberg (FAU) invites applications for a Postdoc position in Computer Science / Biomedical Engineering. The position is related to mobility and gait analytics employing Machine Learning and Data Science. Research goals can be proposed in the job application or defined after an initial onboarding phase. Possible fields of research could be but are not limited to:

- Development of unobtrusive wearable eHealth sensor systems
- Real-world medical data analytics
- Signal processing and machine learning for multimodal sensor data in healthcare
- Decision support systems in medicine
- Digital healthcare at home
- Individualized, quantitative assessment of mobility impairment

The MaD lab collaborates closely with other FAU departments (electrical engineering, computer science, psychology, sports science, ...), the university hospital Erlangen (cardiology, immunology, neurology, ...), as well as companies to foster scientific innovation in real-world challenges. To further extend the research efforts in these directions, to contribute to interdisciplinary and international projects (e.g., mobilise-d.eu, empkins.de), to supervise (PhD) students working in these areas, to support acquiring research funding, and to conduct self-motivated research, the MaD lab is inviting applications for a Postdoc position.

Work Environment:

The MaD Lab is part of FAU, which is one of the largest universities in Germany. With its five faculties, FAU offers a scope of subjects ranging from the Humanities to Law and Economics as well as Sciences, Medicine and Engineering. FAU's mission statement "Moving Knowledge" reflects the necessity for close collaboration between disciplines. FAU has been ranked the most innovative university in Germany for the third year in a row.

The MaD Lab at FAU researches machine learning algorithms and ubiquitous computing systems. The motivation of the MaD Lab researchers is to improve human wellbeing by contributing to applications in real-world settings. Detailed information on ongoing projects is available on our website, via our publications, and upon request.

Requirements:

Candidates for this position should have a doctorate (or submitted dissertation) in Computer Science or a related discipline such as Biomedical Engineering. The ideal candidate blends technical expertise in hardware and software of wearable computing systems and machine learning with an interest in sports science, biomechanics, and medicine as application area, and shows strong enthusiasm about conducting original research as well as supervising and mentoring (PhD) students. The candidate is similarly passionate about acquiring research funding and establishing projects with industry partners. The candidate is expected to be able to work self-organized and independently.

Employment details and contact for application/questions:

The employment start date is as soon as possible. Funding is available for at least 36 months; an extension is possible. Successful candidates will be paid according to 100% TV-L E13 (gross salary range 52k€-75k€, depending on qualification). Applicants should apply with a one-page cover letter and academic CV. A short application video is encouraged, but not necessary. Applications will be accepted until the position is filled.

Contact: Prof. Bjoern Eskofier ([bjoern.eskofier \(a t\) fau.de](mailto:bjoern.eskofier@fau.de))

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