

PhD Position – Digital Cardiology

We invite highly motivated candidates to apply for a full-time PhD position (40 hours per week, available immediately) in the Digital Cardiology Group (<https://dlaskalab.i-med.ac.at>) at the Medical University of Innsbruck. The research group is led by Prof. Clemens Dlaska and is affiliated with the University Clinic of Internal Medicine III – Cardiology and Angiology.

Working at the interface of technology and medicine we aim at exploiting the opportunities offered by digitally available patient data for cardiovascular health. As being part of a highly-interdisciplinary team of technological and medical domain experts PhD students in our group will thus work on research directions including:

- Development of new artificial intelligence (AI)/machine learning (ML) methods to early detect and predict cardiovascular diseases from real-world, multimodal clinical data
- Identifying novel, e.g., AI/ML based, digital biomarkers
- Investigating and establishing novel data acquisition and curation strategies inside and outside the clinic (app development for mobile devices, novel data acquisition routines as part of clinical routine, etc.) and contributing to clinical trials

Your profile:

- Master's degree (or equivalent) in a relevant field such as computer science, AI/ML, physics, mathematics, bioinformatics, data science, medicine
- Motivation to collaborate with a highly-interdisciplinary team
- Programming skills (e.g., python) and experience in working with high-performance computing infrastructure (e.g., slurm)
- Experience in using and developing AI/ML methods or being enthusiastic about learning AI/ML methods for medical applications
- Excellent verbal and written English skills

We offer:

- Interesting research projects at the forefront of a very timely and interdisciplinary research area
- Possibility to contribute to the full medical research pipeline from medical questions to technology development to clinical trials
- International collaborations with leading institutions
- Competitive salary according to the "Kollektivvertrag" at the Medical University of Innsbruck and numerous social benefits for employees

- Attractive campus and dynamical research environment embedded in a vibrant city

Application

Please send your application including a brief cover letter (max. one page), curriculum vitae, transcript of records (grades and certificates), and contact details of at least two referees to clemens.dlaska@i-med.ac.at (subject line: "PhD application"). Applications are considered until the position is filled.

For further information please contact clemens.dlaska@i-med.ac.at.