

PhD Position: Sex differences in the effects of cardiovascular medications

Applicants are invited for a 3-year PhD position (30 hours per week) at the Medical University of Innsbruck starting at March 1st 2025. The PhD student will be working at the Institute of Clinical Epidemiology, Public Health, Health Economics, Medical Statistics and Informatics (for more information see <https://epicenter.i-med.ac.at/>) led by Professor Peter Willeit and will be supervised by Assistant Professor Lena Tschiderer.

The PhD position is part of a FWF-funded Principal Investigator project. The project focuses on sex differences in the effects of cardiovascular medications. As females are highly underrepresented in clinical trials for cardiovascular diseases, it is unclear whether effects of cardiovascular drugs have similar effects on females and males.

In this project, we will apply sex-stratified drug-target Mendelian randomization, a sophisticated statistical approach, which allows mimicking the effects of cardiovascular medications. The aim is to study sex-specific drug effects on several cardiometabolic outcomes and examine a range of potential side effects. Consequently, the applicant is intended to be enthusiastic about working with large-scale datasets and motivated in conducting statistical analyses using sophisticated methods.

Your profile

- Master's degree in a relevant subject such as epidemiology, data science, mathematics, bioinformatics, or equivalent
- Interest in research on sex differences in cardiovascular diseases
- Being motivated of learning new tasks and being able to work independently
- Programming skills in statistical software (preferably R)
- Experience in programming on high-performance computing environments is a plus

We offer

- An interesting research project using cutting-edge statistical methods
- Integration into a supportive and interdisciplinary research environment
- International collaborations
- Payment according to the FWF salary rates for PhD candidates

Applications

Please send your application including a CV, a cover letter, and contact information for at least one reference until December 18th 2024 to lena.tschiderer@i-med.ac.at.