



## PhD in Medical Statistics on Basket Trials in Infectious Diseases Medical University of Vienna, Vienna, Austria

The [Institute of Medical Statistics](#) at the [Medical University of Vienna](#) (MUW) invites applications for funded PhD positions (3 years, 30 hours per week) in Medical Statistics. We seek researchers with a strong background in statistics, mathematics or related fields who would like to gain research experience as part of an innovative research group in medical statistics. The intended starting date for the position is September 2023.

### Information about the research project

The goal of the project is to develop and implement an innovative adaptive basket Phase II trial master protocol for Neglected Tropical Diseases for a clinical trial to be conducted in Sub-Saharan African countries. This protocol should allow the simultaneous evaluation of multiple doses of the experimental treatment in multiple diseases (helminth infections) within the same trial structure. It will be a controlled, randomised, adaptive, blinded study with parallel groups. Using clinical trial simulations, key operating characteristics of the trial will be assessed to optimize different design elements, including interim analyses and stopping rules, dose selection at interim, (adaptive) randomization and treatment allocation, sample size reassessment and subgroup analyses.

The position is funded by the EU project eWHORMS.

The researchers will be supervised by [Martin Posch](#) and [Sonja Zehetmayer](#) from the [Institute of Medical Statistics](#) and Bertrand Lell from the [Division of Infectious Diseases and Tropical Medicine](#). Further project collaborators include other staff members as well as international partners in the EU consortium from European and African universities, research offices and foundations.

### Information on the department

The researchers will be integrated in the working group “Adaptive Designs” at the [Institute of Medical Statistics](#). The department is part of the [Center for Medical Data Science](#) at the [Medical University of Vienna](#). The department has a long-standing research tradition with an outstanding track record in methodological, biostatistical research including areas as adaptive designs, multiple testing, platform trials and data science.

### Qualifications required for the PhD positions

- Strong background in statistics, mathematics or a related field.
- Interest to develop innovative statistical methods.
- Programming skills, e.g., in statistical software such as R or SAS.
- Oral and written communication skills in English (knowledge of German is not required).
- Willingness to collaborate across scientific and geographic borders.
- Willingness to travel to partners in Sub-Saharan African countries for scientific capacity building with workshops or short courses.

We strongly encourage applicants from Sub-Saharan Africa.

### Application procedure

Applications should be sent per email to [medstat@medunwien.ac.at](mailto:medstat@medunwien.ac.at) until 23. April 2023 or until the position is filled including (all documents as PDF):

- CV
- Personal letter: 1-3 pages where you introduce yourself, present your qualifications, previous research fields, main research results, future research plans and the motivation for your application.
- Copies of bachelor and master thesis.
- Copies of completed education, grades and other certificates.
- Two references that we can contact.

### Info on salary / PhD studies

- The salaries for doctoral candidates will be in line with the [guideline](#) of the Austrian science fund. The MUW is an equal opportunity employer.



- PhD program “[Medical Informatics, Biostatistics & Complex Systems](#)” and [admission](#) at MUW
- Information on tuition fees in Austria: <https://www.meduniwien.ac.at/web/en/studies-further-education/application-admission/tuition-fees/>

**For informal inquiries please contact**

Martin Posch, [martin.posch@meduniwien.ac.at](mailto:martin.posch@meduniwien.ac.at), +43-1-40400-74890

Sonja Zehetmayer, [sonja.zehetmayer@meduniwien.ac.at](mailto:sonja.zehetmayer@meduniwien.ac.at), +43-1-40400-74850