PhD student m/f, Leiden

We are seeking a PhD student interested in solving challenging and relevant statistical problems within an international and multidisciplinary environment.

The position

As a PhD student you will work within the department of Medical Statistics and Bioinformatics on a subproject of the European consortium MIMOmics. MIMOmics is a consortium of 14 European partners which develops methods for integrated analysis of multiple omics datasets (genomics, metabolomics etc). Your work will focus on the development of statistical methodology for genetic pathway analysis based on family studies. Current methods consider typically one type of dataset in a single study. The aim of the project is to extend current methods 1) to use information from multiple types of datasets jointly, 2) for secondary phenotype analysis, i.e. the data are originally collected for analysis of the first phenotype and 3) for meta-analysis in which results of various studies are combined without the raw data. The methods will be applied to family data on healthy aging, the Leiden Longevity Study. In addition to research, you will be involved in some teaching in biostatistics and statistical genetics to students and researchers.

Your profile

You hold a master (or bachelor) degree in Statistics, Biostatistics or a similar discipline. You are a creative and motivated researcher with good writing and didactical skills. You possess excellent communication skills and are fluent in both written and spoken English.

The department

You will work within the Medical Statistics group of the Department of Medical Statistics and Bioinformatics. The section Medical Statistics is the largest medical statistics research group in the Netherlands, consisting of nine permanent staff members. The section focuses on the development and improvement of statistical methods for medical research and on statistical consulting for researchers in the LUMC. Research is concentrated in the areas of genetics, genomics, proteomics, survival analysis, meta-analysis, clinical trials and epidemiological studies. One of the research interests is statistical genetics, developing methodology and analytical tools for data from genetic studies. The group of statistical genetics (six members) works on methods for omics data sets and on efficient methods for modeling the relationship between known genetic factors and various outcomes. The group collaborates with several outstanding groups within the LUMC\Leiden University on advanced data analysis.

More information

You can find the extended vacancy text on www.lumc.nl/vacatures. If you have any questions, or if you want more information about this position, please contact Prof. Dr Jeanine Houwing-Duistermaat, head group Statistical Genetics, Department of Medical Statistics and Bioinformatics, telephone +31 (0)71 526 9707, e-mail: j.j.houwing@lumc.nl. Or with Dr. Roula Tsonaka, senior researcher, Department of Medical Statistics and Bioinformatics, telephone +31 (0)71 526 9700, e-mail s.tsonaka@lumc.nl.