

Netherlands:PhD candidate Methodology and Statistics

LCDS research program Stacked Domain Learning for multi-domain data: a new ensemble method. More and more often data are collected from several domains. For the early diagnosis of Alzheimer disease, for example, questionnaire data, structural MRI data, functional MRI data, EEG data, metabolomics data, and genetic data can be collected. These different types of data differ not only in overall size, but also in quality. It is, for example, well known that fMRI data are very noisy. To obtain an accurate early diagnosis it is important to obtain the relevant features from each domain but also to look for cross domain interactions. At the moment, however, it is unknown which statistical method should be used to analyze such multi-domain data and how to deal with the differences in data quality between the domains.

Your task is to write scientific, peer-reviewed publications, resulting in a PhD thesis. For about 10% of the position, you will contribute to the teaching program of the Methodology and Statistics section.

Selection Criteria

[Redacted selection criteria]

Description faculty

The Faculty of Social and Behavioural Sciences comprises four institutes: Education and Child Studies, Political Science, Psychology and Cultural Anthropology & Development Sociology. The Faculty also includes the Centre for Science and Technology Studies. The Faculty is home to 5,000 students and 600 members of staff. Our teaching and research programmes cover diverse topics varying from adoption to political behaviour. For more information, see <http://www.universiteitleiden.nl/en/social-behavioural-sciences>

Research at our LCDS research programme

The Leiden Centre of Data Science (LCDS) is a network of researchers from different scientific disciplines, who use innovative methods to deal with large amounts of data. In the LCDS research programme all the faculties of Leiden University are cooperating and have appointed at least two PhD's. The PhD students are formally employed by their respective faculties and will spend (on average) halftime at the LCDS Data Science Research Lab.

Terms & Conditions

We offer a full-time, one year term position, with the possibility of renewal for another three years based on performance. Salary range from € 2191 - to € 2801 - gross per month (pay scale P) , in accordance with the Collective Labour Agreement for Dutch Universities).

Leiden University offers an attractive benefits package with additional holiday (8%) and end-of-year bonuses(8.3%), training and career development and sabbatical leave. Our individual choices model gives you some freedom to assemble your own set of terms and conditions. Candidates from outside the Netherlands may be eligible for a substantial tax break.

Diversity

Leiden University is strongly committed to diversity within its community and especially welcomes applications from members of underrepresented groups.

Information

For further information about our unit and its teaching and research activities, please visit our website (<https://www.universiteitleiden.nl/en/social-behavioural-sciences/psychology/methodology-and-statistics>). Inquiries may be addressed to prof. dr. Mark de Rooij, head of the Section Methodology and Statistics. Email: rooijm@fsw.leidenuniv.nl

Tentative Submission Deadline : 16 December 2016

[Further Information](#)