**Postdoc in statistics/machine learning (4 years, full-time)**

As part of the Consolidator Grant project (PI: Jelte Wicherts) Innovative Methods for Psychology: Reproducible, Open, Valid, and Efficient (IMPROVE) financed by the European Research Council (ERC), we are looking for a **Postdoc in statistics/machine learning (4 years, full-time)**

**Project description**

With numerous failures to replicate, common misreporting of results, widespread failure to publish non- significant results or to share data, and considerable potential bias due the flexibility of analyses of data and researcher’s tendency to exploit that flexibility, psychological science is said to experience a crisis of confidence. The goal of this postdoc project is to counter the biasing effects of common explorations of data (p-hacking) by developing new statistical and machine-learning approaches to analyse data from psychological research.

**Responsibilities**

The postdoc will be expected to:

* Develop, refine, and disseminate state-of-the-art methods to analyse psychological data using differential privacy and related holdout sample methods
* Contribute to education on methodology and statistics
* Supervise PhD students
* Publish articles in peer-reviewed journals
* Cooperate in an international network of researchers
* Visit international conferences
* Write grant proposals

**Job requirements and qualifications**

* Expertise in statistics, machine learning, differential privacy, and holdout sample methods
* Fascination for reproducibility and replicability and an interest in psychological research
* Ambition to improve rigor of the social and behavioral sciences
* A (nearly completed) PhD-degree in data science, econometrics, psychometrics, sociometrics, machine learning, (bio)informatics, or (applied) statistics
* A promising early career track record in statistics/machine learning as evidenced by (inter)national peer review publications.
* Social skills to engage in an (inter)national network of collaborators

**Terms of employment**
Tilburg University is among the top of the Dutch employers and has an excellent policy concerning terms of employment. The collective employment terms and conditions for Dutch universities will apply. The appointment  in the position of researcher (UFO profile researcher 3) at Tilburg University begins with a period of 12 months. Continuation of the appointment with another 36 months will be based on performance evaluation.

Depending on the candidates’ experience, the full-time salary for the postdoc position on a full-time basis ranges between € 3475 and € 4757 gross per month based on scale 11 of the Collective Labour Agreement (CAO) Dutch Universities (not included are various allowances). Researchers from outside the Netherlands may qualify for a tax-free allowance equal to 30% of their taxable salary. The university will apply for such an allowance on their behalf. The university offers very good fringe benefits, such as an options model for terms and conditions of employment and excellent reimbursement of moving expenses.

**Applications and information**

Additional information about Tilburg University and the Department of Methodology and Statistics (MTO) can be retrieved from: [www.tilburguniversity.edu](http://www.tilburguniversity.edu/). Information on the meta-research center can be found on [http://metaresearch.nl](http://metaresearch.nl/).  Specific information about the vacancy can be obtained from prof. dr. J. M. Wicherts, tel. +31-13-4663215, email: J.M.Wicherts@tilburguniversity.edu. Applications, including a curriculum vitae and a letter of motivation should be sent before June 25, 2017 Hans-Georg van Liempd MSc, Managing Director Tilburg School of Social and Behavioral Sciences, Tilburg University (only by using the link below). Preferred start date is 1 september 2017 at the latest. The interviews will take place beginning of July 2017.

**Tilburg School of Social and Behavioral Sciences**

Tilburg School of Social and Behavioral Sciences (TSB) is a modern, specialized university. The teaching and research of the Tilburg School of Social and Behavioral Sciences are organized around the themes of Health, Organization, and Relations between State, Citizen, and Society. The Schools inspiring working environment challenges its workers to realize their ambitions; involvement and cooperation are essential to achieve this.

[Tilburg School of Social and Behavioral Sciences](https://www.tilburguniversity.edu/about/schools/socialsciences/)

**Department of Methodology and Statistics**

The Department of Methodology and Statistics is responsible for the teaching and the research in the area of methodology and statistics for the social and behavioral sciences. The department is a member of the national graduate school Interuniversity Graduate School for Psychometrics and Sociometrics (IOPS) and houses the successful Meta-Research Center that aims to improve the rigor of social and behavioural science through innovative research.

**Recruitment code**
Tilburg University applies the [recruitmentcode](http://nvp-plaza.nl/sollicitatiecode%22%20%5Ct%20%22_blank) of the Dutch Association for Personnel Management & Organization Development (NVP).

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