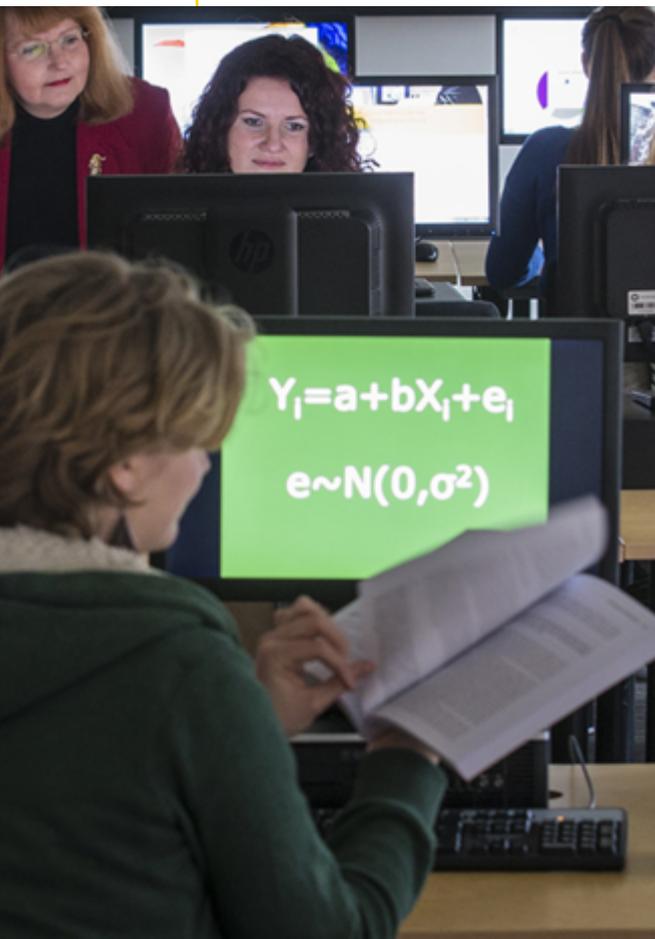




## Master's programme

# Methodology and Statistics for the Behavioural, Biomedical and Social Sciences



### IS THIS PROGRAMME FOR YOU?

Would you like to advance the frontiers of statistical methodology? Do you want to impact quality of research? Do you like to team up with professionals from other disciplines and together achieve the best evidence from available data? If you enjoy any of these, this Master's programme is right for you!

### STUDY PROGRAMME

The two-year Master's programme Methodology and Statistics is a unique collaboration between three departments:

- Utrecht University, Department of Methodology and Statistics
- University Medical Center Utrecht, Department of Biostatistics
- Twente University, Department of Research Methodology, Measurement and Data Analysis

In the first year you will be provided with a strong foundation in research methodology and applied statistics. In the second year, you will prepare for and write a thesis in an area that interests you most. Typically this will be in a collaborative project with other disciplines reflecting the setting in which modern research is done.

Within the second year there is an option to design your own programme by creating a track in the field of your interest, which can for example be survey research, educational measurements, biomedical research, but also by following our predefined track: Official Statistics (which has a European Master of Official Statistics label).

### WHY OPT FOR THIS PROGRAMME?

Experience the research culture at three different departments. We offer you a unique learning environment within a broad range of research and application areas. Small interactive classes and teachers who are renowned in their field provide you with a strong foundation. You will learn to cooperate and work at a professional level using multi-media applications.

### SUMMARY

- Duration: 2 years (120 EC)
- Part- or full-time status: full-time
- Language of instruction: English
- Start of studies: September
- Application deadline: 1 April
- Title: Master of Science (MSc)
- Offered by: Utrecht University, UMCU and Twente University

- EMOS label awarded Official Statistics track (the only one in The Netherlands)
- Top-10 best master in the Netherlands (Keuzegids 2016)
- Cutting-edge research in methodology and statistics
- Superb career prospects

We are the only Dutch University that has been awarded a EMOS (European Master of Official Statistics) label from Eurostat for our track in Official Statistics. This is statistics as it is carried out at statistical bureaus such as Statistics Netherlands and planning bureaus.

#### CAREER PROSPECTS

The close collaboration of the three departments provides you with an excellent international network. You can find our graduates:

- completing a PhD in methods and statistics departments
- as statistician at pharmaceutical companies and medical centres
- as statistical consultants in companies directly linked to our three departments, such as TNO (Netherlands Organisation for Applied Scientific Research), CBS (Statistics Netherlands), and DANONE.

#### ADMISSION

Our Board of Studies strives to admit around 20 suitable applicants each year. You are eligible for admission if you meet the entry requirements as listed on our website.

The requirements involve having; a Bachelor's degree in Biomedical Science, Social and Behavioural Sciences (including Political Science), Econometrics and /or (Applied) Mathematics; above-average grades; a good command of English and sufficient training in methods and statistics.



### Pushed to reason on our own

"The fact that we get to interact with and learn from people who produce considerably good work in three main research areas (psychological research, psychometrics and biostatistics) is very key. We are offered material that relates to a wide variety of fields and when it is possible we are pushed to formulate solutions and reason on our own as practitioners, later to realize our mistakes and learn how we made those mistakes.

I think this experience made me a better follower of the 'first principle' of Richard Feynman: "[...] you must not fool yourself — and you are the easiest person to fool." and I think this is especially important in this field."

*Oguzhan Ögreden, student*

#### Programme outline

	First semester	Second semester
First year	<ul style="list-style-type: none"> <li>- Survey Data Analysis</li> <li>- Multivariate Statistics</li> <li>- Fundamentals of Statistics</li> <li>- Computational Inference with R</li> </ul>	<ul style="list-style-type: none"> <li>- Psychometrics</li> <li>- Introduction in Multilevel and Structural Equation Modelling</li> <li>- Bayesian Statistics</li> <li>- Clinical Research Designs</li> </ul>
Second year*  *If you choose the Official Statistics track then your second year will be somewhat different. For more information, visit our website.	<ul style="list-style-type: none"> <li>- Elective course</li> <li>- Research Seminar I</li> <li>- Preparation Master's thesis</li> </ul>	<ul style="list-style-type: none"> <li>- Research Seminar II</li> <li>- Master's Thesis</li> </ul>

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#### More information

Go to [www.uu.nl/masters/ms](http://www.uu.nl/masters/ms).

Any questions? Please contact one of the local contact persons:

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