Utrecht University

Sharing science, *shaping tomorrow*

UMC Utrecht

Master's programme

Neuroscience and Cognition

- **Multidisciplinary research area**
- **Two tracks: one track focuses on Experimental and Clinical Neuroscience; the other track focuses on Cognitive Neuroscience**
- **Easy access to top institutes all over the world**

IS THIS PROGRAMME FOR YOU?

The field of Neuroscience and Cognition comprises a vast multidisciplinary research area that aims to understand normal and pathological brain function. The international Master's programme Neuroscience and Cognition will give you insight in the fundamental principles of this challenging field, taught by a substantial number of participating research groups.
The programme is organised in two tracks. One track focuses on Experimental and Clinical Neuroscience (ECN), the other track focuses on Cognitive Neuroscience (CN).
Based on the diversity in background of the students, they are grouped in multidisciplinary teams during the courses, preparing them for a top research position. After a 10-week introductory course 'Fundamentals of Neuroscience and Cognition' each student determines his/her individual study path together with the track coordinator.
The two-year programme delivers a new generation of multidisciplinary neuroscientists and cognition researchers, with a broad knowledge of the full width of brain and cognitive functioning and equipped to face the challenges of modern neuroscience research.

NEUROSCIENCE AND COGNITION IN UTRECHT

The emphasis of this Master's programme is on hands-on experience, although a selection of elective courses allows for a thorough theoretical basis. Over 200 principal investigators participate in the programme and offer internships and supervision. The second internship is often taken outside Utrecht, usually within an international collaboration of one of the principal investigators, allowing easy access to top institutes all over the world.
The principal researchers involved in the Master's programme are experts in a large variety of advanced techniques. The infrastructural environment in Utrecht is excellent.

PROGRAMME OUTLINE

Duration: 2 years (full time) **EC:** 120
Language: English
Start: September
Application deadline EU/EEA and non-EU/EEA students: 1 april
Degree: Master of Science
This Master's programme is registered under the name Neuroscience and Cognition (code 60704) and is organised by the Graduate School of Life Sciences, Utrecht University.

With the latest developments in 7T human functional and 9.4T rodent imaging, deep-sequencing of human genetic material, and neuropsychological patient assessment.

DURING YOUR STUDIES

The two-year programme includes a major and a minor research internship, a writing assignment, elective courses and a Life Sciences seminars portfolio. Each of these components is carefully selected by the student in consultation with the track coordinator, resulting in a unique study path tailored to the student's interests and ambitions. More than 50% of our students select a second internship at a top research institute abroad.

CAREER PROSPECTS

Over the past years, more than 75% of all students in the Master's programme Neuroscience and Cognition were employed already before graduating. Of these 25% were approached for a PhD project by a researcher from one of the research institutes in Utrecht.

ADMISSION

The programme Neuroscience and Cognition is open to UU-bachelors of biomedical sciences, biology, pharmacy, medicine, veterinary sciences, physisc, linguistics and social sciences, and for students from other Dutch universities and international students with comparable qualifications. Placement is subject to selection, based on past performance, CV and motivation of the applicant.
For up-to-date information, please check www.uu.nl/masters/nc.

...the field of connectomics is rapidly developing

"My PhD involves a study of the wiring principles of brain networks, also known as connectomes. My work involves a lot of data analysis and the use of MRI datasets. Because the field of connectomics is rapidly developing, sometimes we need to create our own analytical tools and methods. This is very exciting work. My goal is to discover some of the network features that make the human connectome so special: how does the wiring of our brain allow for abstract thinking, language, and other complex cognitive functions? Connectomics allows us to look at the brain at this level between the function of cells and behaviour."

Dirk Jan Ardesch, alumnus CN-track

Read the full interview on www.uu.nl/masters/nc

Programme scheme

51 EC	Major Research Project
33 EC	Minor Research Project
15 EC	Mandatory theoretical courses
12 EC	Elective component
7.5 EC	Writing assignment
1.5 EC	Life Sciences Academy

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www.uu.nl/en/masters/nc