Join Radboud Summer School 2017!

Introduction to Cognitive Neuroscience

change perspective

Radboud Universiteit
Introduction to Cognitive Neuroscience

From Molecule to Behaviour

How do you perceive and act? How do you speak and listen? How do you remember? What goes wrong when you would suffer from aphasia, Alzheimer’s or Parkinson’s disease? Answers to these questions are to be sought in your brain, the most complex, intricate and fascinating organ in the universe. During the past few decades, several different scientific disciplines, including psychology, neurology, physics, biology and genetics have joined forces in trying to understand the neural basis of perceiving, acting, speaking, listening, remembering and other cognitive processes, from molecule to behaviour. This research enterprise, called Cognitive Neuroscience, seeks to understand the biological underpinnings of cognition and behaviour in terms of explanatory principles ranging from small-scale levels, including molecules and neurons, to larger-scale levels, including brain networks.

At the Donders Institute for Brain, Cognition and Behaviour at Radboud University Nijmegen, over 500 researchers use a variety of cutting-edge techniques, such as electrophysiology, brain imaging and genetics methods, to unravel cognition and behaviour as well as its breakdown due to for example stroke or neurodegenerative diseases. Research in cognitive neuroscience in Nijmegen is at the scientific forefront and the Donders Institute is one of the world-leading institutes in this research area. Following a general orientation you will receive introductions to four specific topics: Language and communication; Perception, action, and control; Plasticity and memory; and Brain networks and neuronal communication.

After this course you are able to

• Analyse cognition and behaviour in term of basic operating principles of the
• Relate explanatory principles at small-scale brain levels, including molecules and neurons to larger-scale levels, including brain networks
• Explain cognitive and behavioural disorders in for example aphasia, Alzheimer disease and Parkinson’s disease in terms of these operating principles of the brain.

Numer of EC

2 ECTS credits
Entry level
Advanced Bachelor

Course leader
Dr. A. Koning, Programme coordinator MSc Cognitive Neuroscience, Donders Centre for Cognition

This course is designed for
Students starting or just having finished their final bachelor year (in cognitive, behavioural, biomedical, language, or natural science or related disciplines); Master students/aspiring PhD students outside cognitive neuroscience, but with a strong interest in the domain

Admission documents
No admission documents required, but students are required to bring their own laptops.

Dates
Monday 14 August - Friday 18 August 2017

Course fee
€ 450

Discounts
• 10% discount if you register before April 1, 2017.
• 15% additional partner-discount for students from partners universities on all course fees! See website for complete partner list!
Want to be part of the RSS experience?

More than just a course!
Radboud Summer School is more than an academic event. It is a unique opportunity to meet other international students and researchers and to get to know Radboud University and the city of Nijmegen. Our participants come from all over the world and have different cultural and academic backgrounds. Our programme includes the following activities free of charge: welcome reception, sports activity, guest lecture and farewell drink. We offer also a BBQ, River Cruise, City Tour, Pub quiz and excursion for a small fee.

Have a look at what participants had to say about their experience!

And do not forget to register now!

Deadline application
June 1, 2017

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www.ru.nl/radboudsummerschool, August 6-18 2017