Introduction to Cognitive Neuroscience

During the past few decades, several different scientific disciplines have joined forces in trying to understand the neural basis of cognitive processes from molecule to behaviour. 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. The Donders Institute for Brain, Cognition and Behaviour (DI) uses cutting-edge techniques to unravel cognition and behaviour as well as its breakdown due to for example stroke or neurodegenerative diseases. The DI is one of the world-leading institutes in this research area.

This course provides a thorough introduction to this exciting research field and to actual research at the DI in particular. You will receive introductions to four specific topics that correspond to the research themes of the DI: Language & Communication; Perception, Action & Control; Plasticity & Memory; Brain Networks & Neuronal Communication. In addition, you will be provided with demonstrations at the research labs of the DI to gain hands-on experience with the basics of cognitive scientific empirical research. After completing this course, you should have gained a basic understanding of cognition and behaviour in terms of elementary operating principles of the brain, be able to relate operating principles at smaller and larger scales in the brain, and to apply the operating principles to the breakdown of cognition and behaviour in neurodegenerative diseases.

After this course you are able to
- Analyse cognition and behaviour in term of basic operating principles of the brain
- Explain cognitive and behavioural disorders, for example aphasia, in terms of the operating principles of the brain
- Set up a basic behavioural experiment

Number of EC
2 ECTS credits

Course leader
Dr. A. Koning, Programme Coordinator MSc Cognitive Neuroscience, Donders Centre for Cognition, Radboud University

Admission documents
Transcript of records and CV
Entry level
Bachelor, Master and PhD

This course is designed for
Everyone with a background in cognitive, behaviourial, (bio-)medical, language, or natural sciences with an interest in cognitive neuroscience. Master and PhD students with a background outside the domain of cognitive neuroscience are also welcome to apply.

You can find more details about this course on our website

Course date
Monday 1 July - Friday 5 July 2019

Course fee
€ 500

Deadline application
1 May 2019

Discounts
• 10% discount for early bird applicants. The early bird deadline is 1 March 2019.
• 15% discount for students and PhD candidates from partner universities. Please note that these discounts can be combined if you apply before 1 March 2019.

Apply now!
What is the RSS experience?

RSS is more than just a course!

Radboud Summer School offers you a unique opportunity to meet other students and researchers from all over the world with different cultural and academic backgrounds. You will also get to know Radboud University and the city of Nijmegen. Our social programme includes a welcome reception, guest lecture and farewell drinks. And for a small fee you can join our BBQ, River Cruise on a pancake boat, a Pub Quiz, Sports Activities or a City Game.

Want to know more?
Have a look at what participants have said about their experience on our website!

Contact
T. +31-248187706
E: Radboudsummerschool@ru.nl
F: RadboudSummerSchool
I: Radboudsummerschool

www.ru.nl/radboudsummerschool