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Brain Image Analysis

This course introduces image analysis of MRI and PET brain scans, ranging from acquisition parameters and processing steps to artificial intelligence and clinical interpretation. Are you a student who wants to delve into neuroimage analysis? Then join this course!

Course description

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diagnose and treat brain diseases such as dementia, multiple sclerosis, and brain tumors. Imaging modalities such as MRI and PET have improved in the last 30 years, to the extent that they can be reliably employed as non-invasive biomarkers not only for visualizing the brain's anatomy but also physiology and function.

This summer course will be held at the Amsterdam UMC, location VUmc. Here is where the Amsterdam Neuroscience research institute is as well as the Amsterdam Alzheimer's, Multiple Sclerosis, and Brain Tumour Centres. Together with the Amsterdam UMC Department of Radiology and Nuclear Medicine, these are leading groups for clinical brain imaging research. Facilities include the imaging centre, MRI scanners from all MRI vendors, magnetoencephalography (MEG), a new whole-body PET scanner, and a 7T MRI scanner. The teachers of the Amsterdam Neuroimaging summer school have both a technical and clinical background and have years of experience in brain image analysis for research. Most teachers have built analysis pipelines, reusing existing image analysis algorithms in an innovative way for specific clinical research questions. The Amsterdam Summer School for Brain Image Analysis and Interpretation of Neurodegeneration is unique as it teaches brain image analysis from a clinical perspective.

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Download [here](#) the course syllabus.

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Course level

Master



Credits

3 ECTS



Contact hours

49



Language

English



Tuition fee

€700 - €1250

Additional course information

→ [Learning objectives](#)

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→ [Preliminary Schedule](#)

→ [Course syllabus and necessary software](#)

→ [Forms of assessment](#)

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Team VU Amsterdam Summer School

We are here to help!

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