

Deep Learning for analysis of stroke in infants

We are looking for a master student with a strong interest in medical image analysis. The topic of this project focuses mainly on automatic stroke detection and segmentation in brain MRI of neonates. We have a close collaboration with the neonatology department and access to the brain MRI of neonates with stroke. Infants with stroke are scanned immediately after diagnosis. About three months later another MRI is made. The main aim of this study is to quantify the brain development of these infants affected by stroke using MR images made at these two time points. We are looking for an applicant with knowledge of machine learning algorithms (or deep learning) and programming skills. A basic background on image analysis or medical imaging would be an advantage.

The project can start as soon as possible. For more information about research performed in our group, please visit <http://qia.isi.uu.nl/>

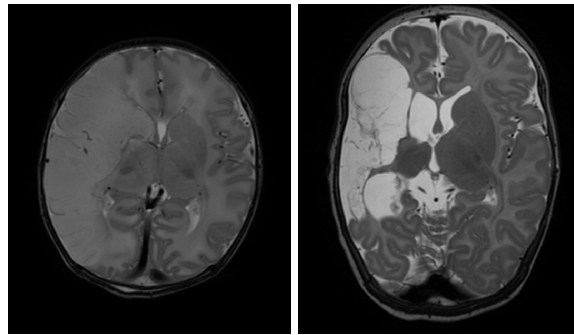


Figure 1: Example of MR scan showing brain affected by stroke in after the onset of stroke (left) and 3 months later (right).

Contacts:

Nadieh Khalili
PhD. candidate
n.khalili@umcutrecht.nl
+31 88 75 50565

Dr. Ivana Išgum
Associate Professor
i.isgum@umcutrecht.nl
+31 88 75 53173