

Neural maps of space in visually impaired persons

We know that the brain forms some sort of maps of the environment around us. These cognitive maps support navigation and wayfinding in familiar and unfamiliar environments. But how does this work if visual information is not available, for example in persons with a visual impairment? In this project, we are using MRI-scans to investigate if and how such a map is formed when an environment is presented via touch, in visually impaired and sighted persons.

We are looking for a motivated student to join this project!

In this internship, you will gain experience in:

- Behavioural testing of participants
- fMRI imaging
- Advanced (fMRI) data analysis

Start of internship: 1 September 2021

End of internship: January-March 2022 (flexible)

Department: Biophysics

If you are interested, please send an email to l.ottink@donders.ru.nl