

## PhD on neural assessment of aphasia

[Apply Now](#)

Company: KU Leuven

Location: Leuven

Category: computer-and-mathematical

An excellent Master degree in speech and language pathology, (neuro)psychology, biomedical engineering, experimental psychology, (cognitive) neuroscience, or related disciplines. Students who graduate in June or August 2024 are also welcome to apply.

Good English and Dutch proficiency (data collection is in Dutch)

Good programming skills (or at least high willingness to learn)

Having experience with MRI and EEG techniques and/or with aphasia is an asset

An inquisitive and creative mind, excellent problem solving skills

Strong commitment and the ability to work in an interdisciplinary team

Ability to work flexibly and independently and flexible

Around 52 people per day suffer a stroke in Belgium, of whom one third is affected by aphasia, an acquired and impactful language disorder. In the acute phase, formal language testing is challenging, due to potential co-morbid cognitive problems, leading to inaccurate diagnoses and predictions. Natural speech assessment is less depended on active cooperation and would be more representative for daily communication. Therefore, in a large-scale longitudinal project in stroke patients (n=600), we will optimize the standard screening protocol by including natural speech production tasks and a more extensive characterization of the lesion. Via data-driven clustering techniques we will define different profiles in the acute phase and test their predictive value in terms of long-term language outcomes. Second,

we will examine natural speech reception in a subset of 100 acute stroke patients and neurotypical controls by testing the sensitivity, specificity and predictive value of EEG neural tracking (i.e., an EEG technique that links brain responses to specific acoustic and linguistic features encompassed within the natural story patients listened to). By using natural speech measures, the aim is to provide novel way to diagnose aphasia in a more comprehensive and functionally relevant manner. This is a project in collaboration between the research groups of Experimental Oto-Rhino-Laryngology, department of Neuroscience (PI's Maaïke Vandermosten & Tom Francart ) and Brain & Cognition, Faculty of Psychology & Educational Sciences (PI Céline Gillebert), both part of KU Leuven, Belgium. The research of Maaïke Vandermosten focuses on the neurobiological basis of language, using longitudinal designs with neuroimaging and natural speech measures. Tom Francart has vast expertise in EEG neural tracking analyses in diverse patient populations (hearing impaired, CI, aphasia,...). Céline Gillebert focuses on understanding and detecting cognitive deficits in brain injured patients as well as on its neural correlates. The specific expertise of each PI will be combined in this project to guarantee a multidisciplinary supervision of the PhD student. The main affiliation of the PhD student will be the group of Experimental ORL (<http://www.kuleuven.be/exporl>), which is a strongly multidisciplinary lab, consisting of 35 researchers from a variety of backgrounds (engineering, audiology, medicine, psychology, speech pathology,...). Within the lab, there is expertise in state-of-the-art MRI techniques, multi-channel brain potential recordings (EEG) as well as psychophysical auditory experiments and language tests. We publish our work in world-class scientific journals and regularly present at important international conferences.

Fulltime PhD position for an initial year, renewable for up to 4 years

Salary is competitive and in accordance with university standards

Membership of two renowned labs, as part of a motivated interdisciplinary team (Vandermosten – Gillebert – Francart), with an extensive international network

Membership of the Leuven Brain Institute at the KU Leuven, one of the largest research universities of Europe

The possibility to take part in international conferences and collaborations

Starting date is October 2024 or as soon as an excellent candidate shows up

[Apply Now](#)

**Cross References and Citations:**

1. PhD on neural assessment of aphasia [Riskmanagementjobs](#) [Jobs Leuven](#)  
[Riskmanagementjobs](#)
2. PhD on neural assessment of aphasia [Manufacturingjobsnearme](#) [Jobs Leuven](#)  
[Manufacturingjobsnearme](#)
3. PhD on neural assessment of aphasia [Findjobshiringnearme](#) [Jobs Leuven](#)  
[Findjobshiringnearme](#)
4. PhD on neural assessment of aphasia [Javascriptjobs](#) [Jobs Leuven](#)[Javascriptjobs](#)
5. PhD on neural assessment of aphasia [Anyeventhire](#) [Jobs Leuven](#)[Anyeventhire](#)
6. PhD on neural assessment of aphasia [Psychiatristjobsnearme](#) [Jobs Leuven](#)  
[Psychiatristjobsnearme](#)
7. PhD on neural assessment of aphasia [Findjobshiringnearme](#) [Jobs Leuven](#)  
[Findjobshiringnearme](#)
8. PhD on neural assessment of aphasia [Industryjobsearch](#) [Jobs Leuven](#)  
[Industryjobsearch](#)
9. PhD on neural assessment of aphasia [Presidentjobs](#) [Jobs Leuven](#)[Presidentjobs](#)
10. PhD on neural assessment of aphasia [Contentwriterjobs](#) [Jobs Leuven](#)[Contentwriterjob:](#)
11. PhD on neural assessment of aphasia [Agriculturejobs](#) [Jobs Leuven](#)[Agriculturejobs](#)
12. PhD on neural assessment of aphasia [Riyadhjobs](#) [Jobs Leuven](#)[Riyadhjobs](#)
13. PhD on neural assessment of aphasia [Locumjobs](#) [Jobs Leuven](#)[Locumjobs](#)
14. PhD on neural assessment of aphasia [Topfishjobs](#) [Jobs Leuven](#)[Topfishjobs](#)
15. PhD on neural assessment of aphasia [Musicjobs](#) [Jobs Leuven](#)[Musicjobs](#)
16. PhD on neural assessment of aphasia [Australiajobscareer](#) [Jobs Leuven](#)  
[Australiajobscareer](#)
17. PhD on neural assessment of aphasia [Searcheruropeanjobs](#) [Jobs Leuven](#)  
[Searcheruropeanjobs](#)
18. PhD on neural assessment of aphasia [Biologyjobs](#) [Jobs Leuven](#)[Biologyjobs](#)

19. Phd on neural assessment of aphasia Jobs Leuven ↗
20. AMP Version of Phd on neural assessment of aphasia ↗
21. Phd on neural assessment of aphasia Leuven Jobs ↗
22. Phd on neural assessment of aphasia JobsLeuven ↗
23. Phd on neural assessment of aphasia Job Search ↗
24. Phd on neural assessment of aphasia Search ↗
25. Phd on neural assessment of aphasia Find Jobs ↗

Source: [https://be.expertini.com/jobs/job/phd-on-neural-assessment-of-aphasia-leuven-ku-leuven-  
abeb488c03/](https://be.expertini.com/jobs/job/phd-on-neural-assessment-of-aphasia-leuven-ku-leuven-<br/>abeb488c03/)

Generated on: 2024-05-04 by Expertini.Com