

## Postdoctoral Position in Neurolinguistics & Neurophysiology of Speech Perception

@ Laboratoire Parole et Langage (LPL) – UMR 7309

Aix-Marseille Université / CNRS, Aix-en-Provence & Marseille, France

### Project Context

As part of a joint ANR-DFG project, the LPL and its German partner (University of Cologne) are launching a 3-year interdisciplinary project (2026–2028) to investigate the role of the basal ganglia in speech perception. This collaborative effort combines expertise in neurolinguistics, neurophysiology, and movement disorders, with a focus on Parkinson's disease (PD) and deep brain stimulation (DBS).

### Position Details

- **Duration:** 24 months (full-time)
- **Start date:** October 2026
- **Salary:** Based on the Aix-Marseille University scale, commensurate with postdoctoral experience
- **Location:** Primarily Aix-en-Provence (LPL), with recordings at the Movement Disorders Unit (Marseille), and potential short research stays in Cologne, Germany

### Your Role

- Conduct speech perception tasks in patients with Parkinson's disease and DBS
- Record **simultaneously high-density scalp EEG and local field potentials (LFPs)** via implanted DBS electrodes (postoperative sensing-capable systems), in collaboration with the clinical teams in both countries
- Analyze neurophysiological data, considering both behavioral and clinical measures
- Disseminate data results (international conferences and publication in peer-reviewed journals)

**Your Profile** / We seek a **highly motivated postdoctoral** researcher with:

- PhD in a relevant field (neurosciences, engineering, linguistics, psychology, physics, biology)
- Strong experience in EEG/LFPs acquisition and signal analysis, including experience with Matlab (e.g., EEGLAB, Fieldtrip, Brainstorm) and/or Python (e.g., MNE-Python) (mandatory)
- Experience with clinical populations (recommended)
- Fluency in French (recommended)
- Strong teamwork skills and adaptability to interdisciplinary environments (research + clinical)

### Our Research Environment

- **Host Lab:** Laboratoire Parole et Langage (LPL), a CNRS-affiliated unit at Aix-Marseille University, specializing in speech/language production, perception, and disorders
- **Supervision:** Co-directed by **Serge Pinto** (neurolinguistics, speech disorders in movement disorders) and **Prof. Alexandre Eusebio** (neurologist, DBS electrophysiology)
- **Collaborations:** *Clinical* (Movement Disorders Unit, Marseille) and *International* (Prof. Michael Barbe, Cologne University Hospital, and Prof. Doris Mücke, Institute for Linguistics, University of Cologne)
- **Opportunities:** Joint meetings, potential research stays in Germany, and access to cutting-edge neurophysiological tools

**Application Process** / Interested candidates should submit:

1. A detailed CV (including publications)
2. A cover letter outlining research interests and fit for the project
3. Contact details for 2–3 references

**Deadline:** June 1<sup>st</sup>, 2026

**Contact:** Serge Pinto – [serge.pinto@univ-amu.fr](mailto:serge.pinto@univ-amu.fr)