

'PhoNet' Workshop : 12/02/2020, Aix-en-Provence

Organisers: Kristof Strijkers & Friedemann Pulvermüller

Objective: The objective of this workshop is two-fold: (1) to present and discuss the motivating questions, underlying theories, research objective and work program of the recently started joint French-German grant entitled 'Phonological Networks in Speech Production and Perception' (PhoNet), which is co-funded by the ANR and DFG (FRAL grant), and (2) to obtain input, comments and advice from international experts in psycho- and neurolinguistics.

The PhoNet project addresses the questions (i) whether the phonological brain networks recruited in speaking versus in listening to speech are the same or different, (ii) how these phonological networks interact with semantic and pragmatic neuronal circuits in speech production and understanding. A series of neuroimaging experiments will be presented which systematically compare within the same brains the spatial and temporal correlates elicited by specific phoneme categories during word production and word perception in different semantic and pragmatic contexts. Our invited experts, Drs. Pickering, Fadiga and Hartsuiker will provide feedback on these proposed experiments as well as on the general theoretical framework of the project. The opening workshop will be framed by keynote lectures by our international experts on topics related to the current project.

Schedule:

- 10h00 – 12h00: Internal meeting to discuss research plan, fine-tuning and logistics of the PhoNet project.

12h00 – 13h30: Lunch

- 13h30 – 14h10: Keynote lecture by Robert Hartsuiker
Title: TBA

PhoNet: Theory and strategy

- 14h10 – 14h35: Friedemann Pulvermüller
Title: 'Phoneme-specific neuronal circuits in language perception and understanding'
- 14h35 – 15h00: Kristof Strijkers
Title: 'Phonological Networks in Speech Production and Perception: the same or different?'

15h00 – 15h20: Coffee break

- **15h20 – 16h00: Keynote lecture by Luciano Fadiga**
Title: TBA

PhoNet: Experiments

- **16h00 – 16h25: Kseniia Dmitrieva**
Title: ‘Comparing phoneme categories in word production and perception with fMRI’
- **16h25 – 16h50: Amie Fairs**
Title: ‘Does the brain recruit the same word representations across language behaviors? A registered report MEG study comparing word production and perception.’
- **16h50 – 17h15: Isabella Boux**
Title: ‘Phonological networks in pragmatic speech production and perception’
- **17h15 – 17h45: Comments and discussion on the PhoNet project**

17h45 – 18h05: Coffee break

- **18h05 – 18h45: Keynote lecture by Martin Pickering**
Title: TBA

19h30: Dinner