

Towards an integrative interactive approach to the development  
of spoken language fluency

Aude Noiray

Laboratoire de Psychologie et Neurocognition (LPNC),  
BabyLab de Grenoble  
Université Grenoble-alpes (UGA), France  
[Aude.noiray@univ-grenoble-alpes.fr](mailto:Aude.noiray@univ-grenoble-alpes.fr)

Spoken language fluency is a complex skill involving the cooperation of various language-related abilities (e.g., perception, lexicon, phonology, speech motor control...) which develop in a seemingly parallel fashion. While those competences have been well studied individually in the last decades their collaborative contribution to spoken language fluency is not yet well understood.

In this talk, I will first present research addressing the development of coarticulation, an essential feature for the development of spoken and reading fluency that may go awry in children with atypical language development trajectories. Coarticulation has most often been investigated in relation to speech motor control development. I will show that while the maturation of the speech motor system is crucial to spoken language fluency, the concurrent development of other language-related skills – for instance, vocabulary and phonological awareness must also be considered to explain children's individual trajectories. I will further discuss preliminary results showing that reading acquisition – initiated years after children have started to speak – interacts with speech motor organization for casual speech.

**Bio**

Aude Noiray is a researcher at the *Laboratory for Psychology and Neurocognition* (LPNC) at the Grenoble Alpes University in France. She is part of the *Babylab* and *Language & Learning groups*.

After receiving her PhD in Language Sciences at *GIPSA-lab* in Grenoble, she worked at *Haskins Laboratories* in the USA and at the *University of Potsdam* in Germany. In 2015, she created the *Laboratory for Oral Language Acquisition* (LOLA) which she led for over 6 years. During that time, she was awarded several national and collaborative European grants. Her research has mainly focused on the development of coarticulation in the first decade of children's life. Her current interests now lie in the interactions developing between speech motor control and other language related abilities.