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Faculty of Psychology

# Colloquium lecture by Prof. Denis Mareschal

Understanding learning and development through a Neuroconstructivist lens

In this seminar I will present the *Neuroconstructivist* framework, highlighting how constraints from functional brain development can help us understand early cognitive development. I will illustrate this multidisciplinary approach with three ongoing research projects that range from theoretical to basic and applied topics: (i) How to generate explanations and share knowledge between deep artificial neural networks and human beings, (ii) using fNIRS to explore neural synchrony during collaborative problem solving in pre-schoolers, and (iii) evaluating the Stop& Think brain-inspired math and science primary school intervention.

**Prof. Denis Mareschal**

Birkbeck College



**This lecture takes place at Liebiggasse 5, 1010 Vienna,  
Lecture Hall G 2<sup>nd</sup> floor and will be streamed.**

Thursday, May 23, 2024; 3pm