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 Liebigasse 5, 1010 Vienna, Lecture Hall G 2nd floor and will be streamed.*
Thursday, May 23, 2024; 3pm