universität wien

Faculty of Psychology

Colloquium lecture by Prof. Dr. Sören Krach

Neurocomputational mechanisms of affected beliefs

During everyday social interactions, people receive feedback on their behavior, shaping their beliefs about themselves. However, belief formation is not a passive process during which "objective" information is picked up in an "objective" manner. Rather, I suggest that belief formation is inherently affected in a double sense: When I label the process of belief formation as "affected", I refer to a process that is essentially biased by priors and motivational states, but at the same time shaped by affective states. In my talk, I will present a series of studies on how people arrive at their self-beliefs. Using computational modeling, I will show how people use performance-related feedback information to update their self-related ability beliefs and how this process is entangled with affective states and motivations. I will present novel fMRI data on the neurobiological mechanisms involved in self-belief formation, the role of priors in this process, and finally give an outlook on the clinical implications of these findings.

Prof. Dr. Sören Krach
University of Lübeck

This lecture takes place at Liebiggasse 5, 1010 Vienna, Lecture Hall G 2nd floor and will be streamed.
Thursday, January 18, 2024; 3pm