

Date et lieu : le 06/02/2026, 13h00, salle 1

Simon Avrillon nous présentera un séminaire intitulé : Neuromechanical constraints on motor unit control: implications for neural interfacing



Biosketch : Simon Avrillon completed his PhD in 2019 at the French Institute of Sport and Université Paris-Saclay. He then undertook postdoctoral research at Northwestern University in Chicago and at Imperial College London. He is currently a research fellow at Nantes Université. The central focus of his research is understanding how the nervous system coordinates motor units to produce movement in both healthy and pathological states. To investigate this, he employs experimental approaches that track the spiking activity of large motor unit populations during controlled and natural tasks. Additionally, he uses neural interface-based tasks, in which participants learn to modulate their motor unit activity in real time. On the applied side, he is exploring innovative methods for patients to interact with external devices and virtual environments using their residual motor unit activity.