

Bio

Dr. Yingying PENG is a Postdoctoral Research Fellow at the Brain, Language and Computation Lab (BLC lab) at HKUST. She is broadly interested in neural dynamics underlying naturalistic audiovisual processing, social interaction and learning. Her current work focuses on the impacts of GenAI on university students' behavior and brains. In her recent Neuron paper, she investigated whether structured pre-lecture human versus AI conversations shape learners' real-time neural synchrony, visual attention, and learning outcomes, in an effort to understand how learners' visual attention and neural responses jointly support knowledge acquisition in online AI-mediated educational environments. She has also published in leading journals including PNAS, exploring the cognitive and socio-emotional impacts of an instructor's onscreen presence in online education using neurocognitive measures, and in Nature Human Behaviour, investigating LLM conceptual representation to better unveil the essence of human embodied cognition.