

# Please join us for a talk!

**November 8th, Wednesday**  
**at 14:30 in 4.01**



Psychology of Language  
and Bilingualism Lab  
"LangUsta"



INSTYTUT PSYCHOLOGII  
UNIWERSYTETU JAGIELLONSKIEGO

## "Neural processes underlying speech perception in the dog brain"

by **Dr. Marianna Boros**  
**Eötvös Loránd University, Hungary**



Comparative cognitive neuroscience aims to reveal how and when certain neural sensitivities emerged during evolution: what is uniquely human, what is shared across species? When it comes to mechanisms underlying social functions, and specifically speech processing, such questions require comparisons not only to evolutionarily proximal species (primates), but also to socially proximal ones (domestic animals). Due to their cooperativity and trainability, dogs provide an unparalleled case to study brain activity in an awake, attentive, unrestrained non-human mammal. Studying speech processing in dogs thus allows us to track how environmental and genetic factors may shape a mammalian brain during language evolution. In my talk, I will present recent neural evidence for the sophisticated yet limited speech processing abilities of dogs, highlighting similarities and differences from humans in speech segmentation, language representation and word processing.