

The 5th workshop on

# Cognitive neuroscience of auditory and cross-modal perception

**15 - 17 April 2024**

Košice (pronounced KOH-shih-tse), Slovakia

<https://pcl.upjs.sk/workshop-2024>

## Objectives:

- » Topics: **neural processes of auditory, visual and cross-modal perception**, as well as other **interdisciplinary** topics in **computational and cognitive neuroscience**.
- » Main focus: **spatial audio virtualization and gamification for hearing assessment and enhancement**.
- » Target audience: **early-stage and advanced students and young researchers**.

**Format:** 5 sessions involving invited and contributed talks and posters

**Venue:** Lecture hall 2.17T, Faculty of Science / Technicom building,  
P. J. Šafárik University, Jesenná 5, 04001, Košice, Slovakia

## Speakers and lecture topics:

- » **G. Christopher Stecker**, Boys Town National Research Hospital, "The roles and bases of auditory spatial awareness"
- » **Antje Ihlefeld**, Meta, "Spatial Audio and fNIRS"
- » **Lauren Calandruccio**, Case Western Reserve University, "Listening in noise in multiple languages: considerations for enhancing the efficiency of speech recognition testing"
- » **Eleni Vlahou**, University of Thessaly, "Exploring Spatial Auditory Attention in Gamified Cocktail Party Settings"
- » **Mathieu Lavandier**, ENTPE – University of Lyon, "Modelling speech intelligibility in noise: from differences in SRTs to full psychometric functions?"
- » **Robert Baumgartner**, Austrian Academy of Sciences, "Short-term adaptation of spatial hearing"
- » **Bernhard Laback**, Austrian Academy of Sciences, "Dilation of Auditory Space by Short-Term Context"
- » **Piotr Majdak**, Austrian Academy of Sciences, "Introduction to the framework for auditory modeling based on Bayesian inference"
- » **Anja Pahor**, Univerza v Mariboru, "Development and validation of mobile measures of executive function"
- » **Frederick Gallun**, Oregon Health and Science University, "Does Psychoacoustics Have to be Boring? Exploring Gamification of Auditory Testing"
- » **Jyrki Ahveninen**, Mass General Research Institute / Harvard Medical School, "Multimodal studies on attention and crossmodal influences in auditory networks"
- » **Virginia Best**, Boston University, "When and why do hearing aids disrupt sound externalization?"
- » **Aaron Seitz**, Northeastern University, "New games to train speech in competition; from psychoacoustics to music"
- » **Norbert Kopčo**, P. J. Šafárik University in Košice, "Other topics in SAV: Attention and distance in real and virtual environments"

## Organizers:

**Norbert Kopčo**, P. J. Šafárik University in Košice >>><<  
**Robert Baumgartner**, Austrian Academy of Sciences >>><<

**Frederick Gallun**, Oregon Health and Science University >>><<  
**Mathieu Lavandier**, ENTPE - University of Lyon >>><<

**Registration: Free but required** (kogneuro@gmail.com)



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