

## Auditory perception Illusions

Open Day 2023 LEAP Lab, Electrical Engineering, Indian Institute of Science, Bangalore





Audio illusions can help us understand how our Brain processes audio signals it receives from Ears and ultimately what we perceive.

Time difference taken by sound to reach both ear, intensity of sound are used by our brain to locate the sound spatially



the missing phenome in a sentence if there is

Figure from Cao et al.

It demonstrates that auditory processing is not independent of vision!!

by presence of visual stimulus.

a particular noise in place of missing phenome and not when it's empty.

References

- 1. Cao, Q., Parks, N., & Goldwyn, J. H. (2021). Dynamics of the auditory continuity illusion. Frontiers in Computational Neuroscience, 15, 676637.
- 2. Wallach, H. (1939). On sound localization. The Journal of the Acoustical Society of America, 10(4), 270-274.