Psycho Club Adapting to Speakers and

Adapting to Speakers andIntegrating Visual Cues:How Predictive ProcessingShapesSpeechComprehension

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Attendance Event

https://www.psicologia.unipd.it/psycho-clubprogram



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Psycho Club

Humans excel at understanding spoken language durina face-to-face Successful speech interactions. comprehension requires listeners to different speakers and adapt to integrate multiple sensory cues, such as Prominent models mouth movements. of language comprehension assume individuals implicitly predict that upcoming linguistic information at various levels. However, the extent to which predictive processes contribute to comprehension during naturalistic listening remains underspecified. I will present two studies investigating how perceptual adaptation to unfamiliar speakers and visual information from movements shape predictive mouth processes in language comprehension. EEG experiments, Italian In two participants listened to continuous different stories under narrated conditions: (1) with one versus multiple speakers and (2) with the speaker's visible or covered. mouth Neural responses were analyzed using Temporal Response Function modeling to examine encoding of the speech acoustics, phonological and lexical predictability, and visual speech cues. Results showed multiple that adapting to speakers increased reliance on speech acoustics phonological and prediction. Additionally, when mouth movements were available, listeners encoded visual information, refinina speech their showed predictions, enhanced and prediction. These findings lexical suggest that predictive processing is flexible, adjusting to changes in speaker identity and sensory availability. The results align with models of language comprehension that emphasize the dynamic interaction between bottom-up sensory input and top-down predictive mechanisms. These findings highlight of importance audiovisual the in real-world integration communication.

