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An adaptive auditory system supports hearing in diverse acoustic environments

Every day we are exposed to diverse acoustic environments. In order to efficiently cope with this diversity our neural system needs to adapt to the sound features to which we are exposed. However, when hearing becomes more difficult over the course of normal aging, adaptation to acoustic environments might be compromised. In this talk, I will describe how our brains adapt to different acoustic properties, how adaptation changes in healthy aging, and how neural adaptation shapes human perception. I will end with an outline of my research program investigating adaptive hearing throughout life.

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