# Human speech acoustics

- Human speech acoustics involves understanding how sound waves are produced and perceived during speech
- Vocal cords vibrate to generate sound, which is then shaped by the mouth, tongue, and nasal passages
- Each individual's speech has unique acoustic properties, including pitch, volume, and timbre
- Analyzing these properties helps in improving hearing aids, speech recognition technologies, and voice synthesis

# Practical example: Telecommunications

- Human speech acoustics is crucial in telecommunications, particularly in improving the clarity and quality of voice transmissions over phones and the internet
- It involves understanding how sound waves produced by the human voice are transmitted and received through various mediums
- Engineers use principles from this area to design algorithms that reduce noise and enhance speech in real-time communication systems
- The development of efficient codecs for compressing speech without losing quality also relies heavily on insights from speech acoustics



# **Speech Acoustics And Perception**

**AW Rasmussen** 

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