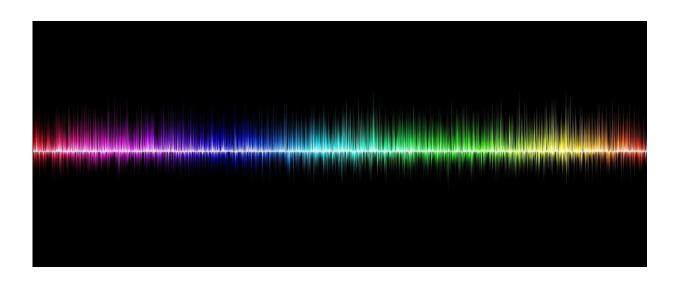


Study shows how people perceive gender through speech

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Using terminology such as "female" and "male," or "feminine" and "masculine" affects how people perceive gender when hearing someone's voice, according to a study from researchers at the Acoustic Phonetics and Perception Lab (APPL) at NYU.

Noting that studies exploring auditory-perception of gender expression use varied terms with regard to gender, the researchers set out to determine how that variation affects perception of a speaker's gender.



They asked 105 participants in the United States to listen to recordings of short words spoken and whispered by cis men, cis women, and transfeminine individuals, and rate the speakers on five scales: 1) very female/very male, 2) feminine/masculine, 3) feminine female/masculine male, 4) very feminine/not at all feminine, 5) very masculine/not at all masculine.

Their findings, published in the *Journal of Speech, Language, and Hearing Research*, showed that listeners made the smallest distinction between "feminine" and "masculine" as the feminine/masculine scale received the most centered ratings (indicating that raters typically found the speakers' gender more ambiguous).

The feminine female/masculine male ratings were the most extreme (closest to the scale's endpoints).

"Participants often bring their own definitions for gender terminology, shaped by their cultural understanding of gender," says Nichole Houle, lead author of the study. "In many Western, colonial cultures, this may mean that a person is either female or male and there's no space to exist outside of these categories, which was reflected by the ratings. Because the scales that used 'feminine' and 'masculine' terms had more centralized ratings, we assume that listeners defined 'feminine' or 'masculine' as being less binary than 'female' or 'male."' Houle completed this research for her <u>doctoral dissertation</u> at the NYU Steinhardt School of Culture, Education, and Human Development and is now a post-doctoral research fellow at Boston University.

Highlighting previous literature demonstrating that speakers with higher frequencies are perceived as more feminine and speakers with <u>lower</u> <u>frequencies</u> are perceived as more masculine, the authors indicated that listeners used pitch and resonance (amplification of higher and lower frequencies) in rating speakers' gender.



They noted that whispered <u>speech</u> was rated more centrally than speech that was not whispered. They hypothesize that because whispered speech does not contain pitch information, participants were less able to distinguish the <u>gender</u> of the speaker without that cue.

"Small changes in wording can have a really large impact," Houle said. "Understanding the nuances in these terms may have far reaching practical implications for speech therapists, including creating clinical protocols to best affirm a client's intended <u>gender expression</u>, or use in intake and electronic health record systems."

More information: Nichole Houle et al, Effect of Anchor Term on Auditory-Perceptual Ratings of Feminine and Masculine Speakers, *Journal of Speech, Language, and Hearing Research* (2022). DOI: <u>10.1044/2022 JSLHR-21-00476</u>

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