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Perceptual and acoustic assessment of strain using synthetically modified voice samples

The goal of this project is to improve the perceptual and acoustic evaluation of strain with a well-controlled, multilistener, auditory-perceptual study using synthesized voice samples.

- [8] , Anand S., Gifford S.M, Shrivastav R., Eddins D.A. "Development and validation of a single-variable comparison stimulus for matching strained voice quality using a psychoacoustic framework", *Journal of Speech, Language, and Hearing Research*, in press. https://doi.org/10.1044/2022_JSLHR-22-00280
- [7] , Anand S., Kopf L.M., Shrivastav R., Eddins D.A. "Interactions between breathy and rough voice qualities and their contributions to overall dysphonia severity", *Journal of Speech, Language, and Hearing Research*, 65(11), pp. 4071-4084, 2022. https://doi.org/10.1044/2022_JSLHR-22-00012
- [6] , Anand S., Ozmeral E.J., Shrivastav R., Eddins D.A. "Predicting perceived vocal roughness using a bio-inspired computational model of auditory temporal envelope processing", *Journal of Speech, Language, and Hearing Research*, 65(8), pp. 2748-2758, 2022. https://doi.org/10.1044/2022 JSLHR-22-00101
- [5] , Wang F., Diaz Cadiz M.E., Vojtech J.M., Groll M., Stepp C.E. "Vocal fold kinematics and relative fundamental frequency as a function of obstruent type and speaker age", *The Journal of the Acoustic Society of America*, 149(4), pp. 2189-2199, 2021. https://doi.org/10.1121/10.0003961
- [4] , Diaz Cadiz M.E., Nagle K.F., Stepp C.E. "Perceptual and acoustic assessment of strain using synthetically modified voice samples", *Journal of Speech, Language, and Hearing Research, 63*(12), pp. 3897-3908, 2020. https://doi.org/10.1044/2020_JSLHR-20-00294
- [3] , Perkell J.S., Matthies M.L., Stepp C.E. "Categorization in the perception of breathy voice and its relation to voice production in healthy speakers", *Journal of Speech, Language, and Hearing Research, 62*(10), pp. 3655-3666, 2019. https://doi.org/10.1044/2019_JSLHR-S-19-0048
- [2] , Stepp C.E. "The effects of stress type, vowel identity, baseline f₀, and loudness on the relative fundamental frequency of individuals with healthy voices", *Journal of Voice*, *33*(5), pp. 603-610, 2019. https://doi.org/10.1016/j.jvoice.2018.04.004
- [1] , Stepp C.E. "Test-retest reliability of relative fundamental frequency and conventional acoustic, aerodynamic, and perceptual measures in individuals with healthy voices", *Journal of Speech, Language, and Hearing Research, 62*(6), pp. 1707-1718, 2019. https://doi.org/10.1044/2019_JSLHR-S-18-0507