

**183<sup>rd</sup> Meeting of the Acoustical Society of America**

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**Topic: Musical Acoustics**

**“Perception of vibrato rate by professional singing voice teachers”**

This study sought to investigate how voice clinicians perceive vibrato rate alterations when presented with controlled, synthesized singing voice samples which vary in vibrato rate and vibrato extent. Thirty-four professional voice teachers completed a twelve-item demographic survey and performed a visual sort and rate task (VSR). For the VSR task, each participant listened to twenty synthesized samples and sorted them from slowest vibrato rate to fastest vibrato rate. This task resulted in distance (i.e. individual perception of vibrato rate) and rank-difference measurements. Two generalized linear mixed effects models (GLMM) and one linear model (LM) were computed. Results for GLMM's found significant associations between vibrato extent and vibrato rate and both individual perception of vibrato rate and rank-difference. Results for the LM found no significant relationships between demographic information and absolute total ranking error. From the results of this study, it seems that both vibrato extent and vibrato rate influence the perception of vibrato rate for professional voice teachers. Neither age nor teaching experience seemed to relate to the ability to discern vibrato rate accurately.