

Working with Overtone Analyzer in the studio and for research

Dr. Chadley Ballantyne

ABSTRACT:

There are two forms of feedback with the vocal instrument during phonation: auditory and somatosensory. Auditory feedback is a combination of radiated sound and bone-conducted sound. Somatosensory feedback from pressure, vibrations, stretch, pain, temperature, and proprioception provide information to both the conscious awareness and to the unconscious voice motor control system about the voice. Spectrum analysis software can provide visual feedback. This third feedback source can help bring a student's awareness to auditory and somatosensory results caused by the resonant voice. Overtone Analyzer by Sygyt Software can be used to provide instant visual feedback for a student. It can also be used to hear the different components or harmonics of a given sound. This is fun and effective for helping students to breakthrough their own preconceptions about the perception of voices, sounds, and the acoustic characteristics which define various styles of singing. This discussion will be a tutorial on the software and how to use it in your studio and research.

PRESENTER BIOGRAPHY:

Dr. Chadley Ballantyne serves as Senior Instructor of Voice at the University of Northern Colorado. Previously, he was a member of the voice faculty at the Theatre Conservatory of the Chicago College of Performing Arts at Roosevelt University, North Park University, Harold Washington College, and Moody Bible Institute. In 2014, he was a NATS Independent Teacher Fellowship Winner for the NATS National Conference in Boston, Massachusetts. He was a participant in the NATS 2015 Intern Program, where he worked with Master Teacher Marilyn Mims. Chadley is a frequent guest speaker on the topic of applying vocal acoustic pedagogy for both classical and CCM techniques. His students have been finalists and winners in local, regional, and national competitions including The Great American Songbook Competition, The Schmidt Youth Vocal Competition, Regional and Chapter NATS competitions, and the Illinois High School Musical Theater Awards. They have performed in professional productions with Light Opera Works, Mercury Theater Chicago, Victory Gardens Theater, Theo Ubique, Sugar Creek Opera, and Drury Lane Theatre.