

BME 0511 Final Project Proposal | Andrew Sivaprakasam

Despite extensive investigation of both perception and coding of Temporal Fine Structure (TFS) and Envelope (ENV) and how they play a role in speech intelligibility and discrimination, there is a commonly presented stimulus whose coding still remains somewhat an enigma: *music*. Though multiple studies have attempted to study music intelligibility and appreciation by creating music-music and music-noise chimaeras, the current work consists of studies that are primarily behavioral. Although these studies shed light on the roles of TFS and ENV in music encoding, their implications may be influenced by higher-level processing beyond the auditory periphery or by auditory filtering effects present in the cochlea.