Homework #2 - Solutions
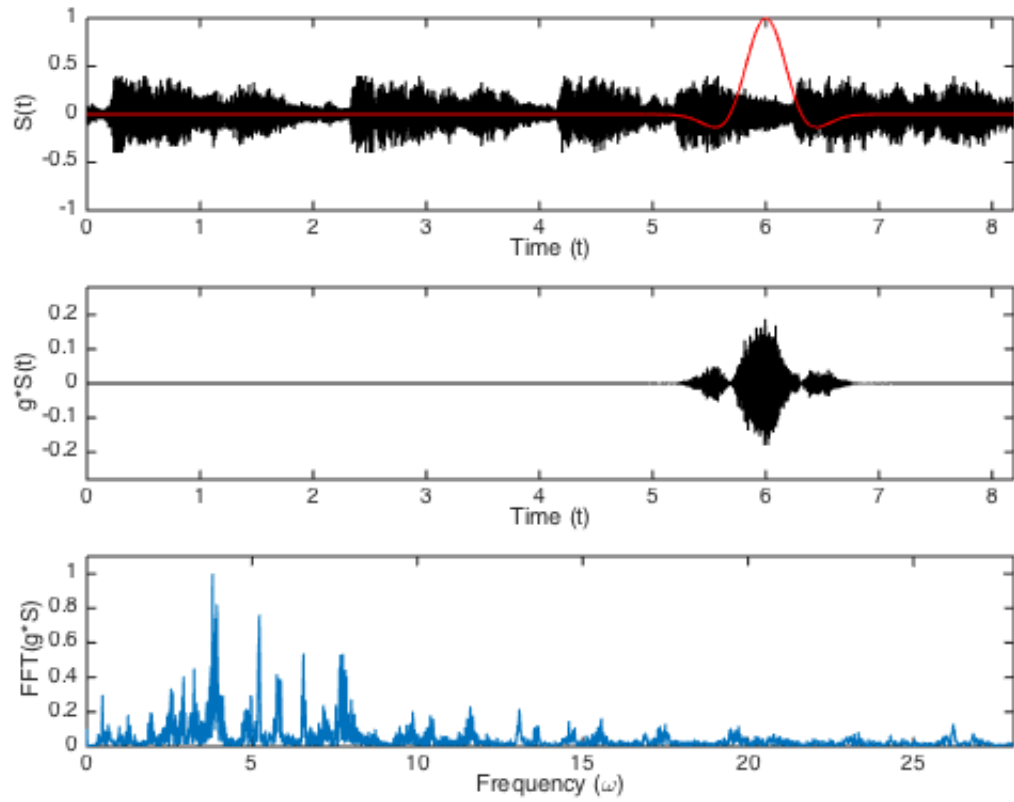
January 30, 2015

1 TIME-FREQUENCY ANALYSIS

Figure 1.1: Time frequency analysis of 8.192 second clip of Handel's Messiah using a Mexican Hat wavelet with width of $1s^{-1}$
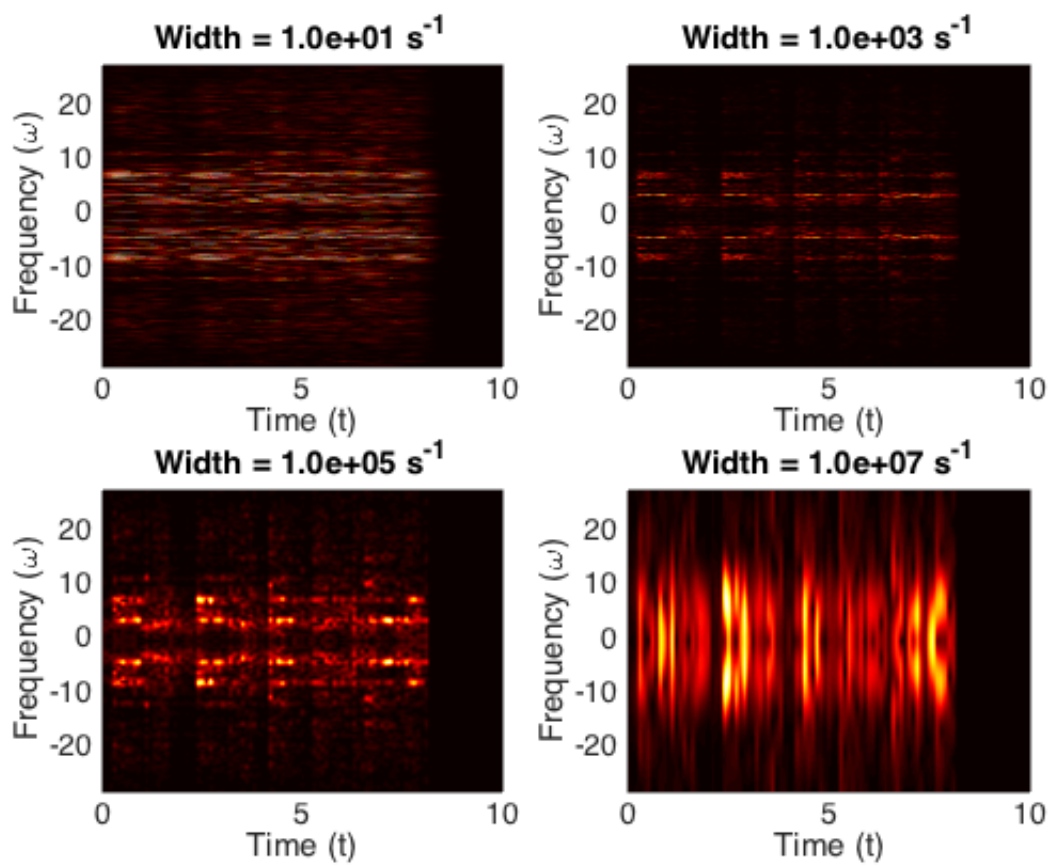
Figure 1.2: Examples of spectrograms constructed using Gaussian wavelets of varying widths. Signal is an 8.192 second clip of Handel's Messiah.
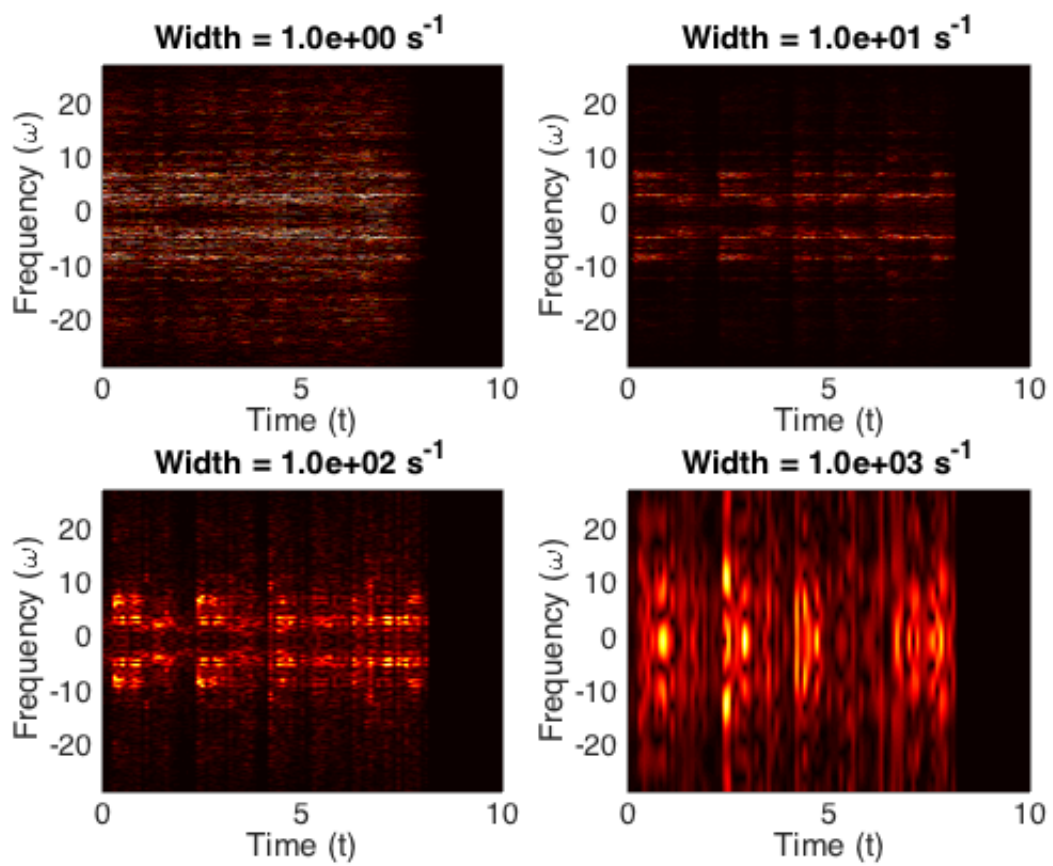
Figure 1.3: Examples of spectrograms constructed using Haar wavelets of varying widths. Signal is an 8.192 second clip of Handel's Messiah.
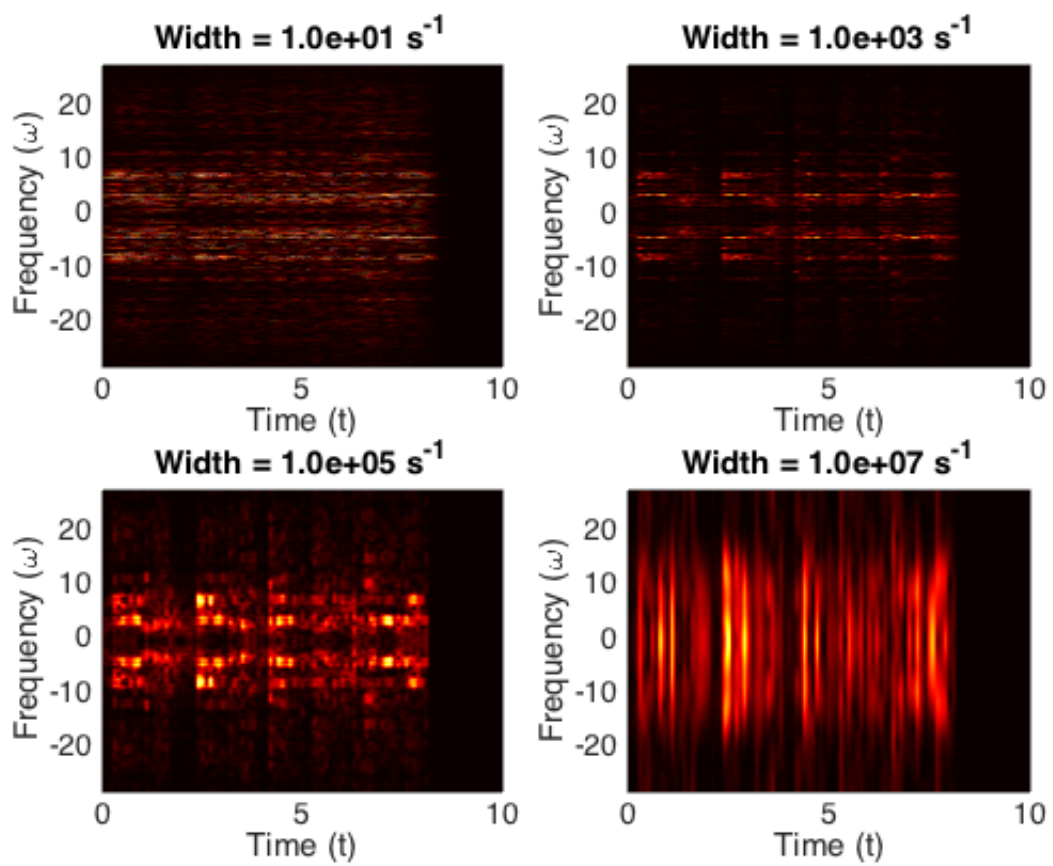
Figure 1.4: Examples of spectrograms constructed using Mexican Hat wavelets of varying widths. Signal is an 8.192 second clip of Handel's Messiah.