

1096-Q1-1551 **Ashley E. Orr*** (aorr@student.ysu.edu), Youngstown, OH. *Making Waves in the Business Cycle: Applying Wavelet Transforms to Economics.*

Comparable to a wave, the US economy seems to ebb and flow with economic fluctuations such as supply and demand shocks, political pressures, and labor productivity changes. Business cycles and their cyclic characteristics, represented by non-stationary time series, have been predominately analyzed by Fourier analysis. However, Fourier analysis does not consider both the time and frequency components of the time series simultaneously, making wavelet transforms a reasonable alternative to revealing the frequency fluctuations and the time at which they occur in the business cycle. This talk will look at how the business cycle is dated and how wavelet transforms in Matlab can be used. (Received September 16, 2013)