I. P. Castro & C. Vanderwel, *Turbulent Flows: An Introduction*, IOP, 2021.

Chapter 1 Sample Exercises

1.1. The file "WindtunnelSample1.txt" contains hotwire anemometry data of the streamwise velocity in a wind tunnel. It was sampled at 60 kHz for a total time of 30 seconds. Plot the signal of the streamwise velocity U (m/s) versus time (s). Take this opportunity to zoom in and out and consider the apparent "randomness" of the signal. Calculate the mean of the signal.