**Figure 1.** Histograms of 16 Channels

A group of black and white graphs

Description automatically generated

***Figure 1.*** *These histograms represent neural recordings from 16 different channels after spike filtering. Raw EEG data was captured across sixteen distinct channels post visual stimulation. These neural recordings are from channels that span cortical depth, with Channel 16 positioned furthest from the surface. The y-axis represents signal magnitude in voltage, while the x-axis denotes time in milliseconds. The mean and standard deviation for each channel is displayed. A standard deviation of 3 was selected because this allows the most (approximately 99% of data to be captured).*

**Figure 2.** Pile Plots for 16 Channels

A screenshot of a computer

Description automatically generated

#5

**Legend**

*Time (Ms)*

*Amplitude (V)*

y

x

**Figure 2*.*** *Raw data was collected from 16 different channels, each corresponding to varying levels of cortical depth. Channels 1 to 4 are in the first row, from left to right. Channels 5 to 8 are in the second row from left to right. Channels 9 to 12 are in the third row from left to right. Channels 8 to 12 are in the third row from left to right. These neuronal outputs were then filtered. A standard deviation of 3 was selected during the filtration process to ensure the appropriate channel recording would be selected. A snippet window of 20 ms before and 30 ms after was selected to try to ensure that only one snippet, or one channels recording, would be captured in each window. The outputs of the 16 channels correspond to signal intensity measured in Amplitude (measured in Voltage) and Time (measured in milliseconds).*

% for extracting APs within each window and index

**Figure 3.** Extra Credit

Could not generate figures ☹