Reason for 2nd revision:

The research paper resulting from this data set has been reviewed and revised on multiple occasions, leading in an increase in quality and strength of analyses. Specifically, we have primarily added new analyses that make improvements to this research.

What was modified?

1. ResponseAnalyzer.m
   1. Our previous version did not include pre-stimulation baseline in the figure it produced. Due to a limitation of long-distance collaboration, the version of the data saved did not include baseline. Therefore, a variant of the evoked response data (which included baseline) was included for this repository (See folder “ResponseAnalyzer\_Data”). Modifications were made to the ResponseAnalyzer.m script to reflect the handling and processing of this data. Otherwise, the purpose and illustrative value behind the script did not change.
2. EvokedResponses\_TimeCorrelation\_Con\_VS\_Exp
   1. This script was slightly modified to produce more accurate results and to be easier to follow.
3. README in the “code” folder
   1. Updated to reflect new additions of code and also a comment for future analysis

What was added into this “REVISED\_V2” version:

1. divergenceTest\_ControlAnimals\_first10days\_vs\_last10days.m
   1. This script quantifies changes in the evoked responses of control animals over time. Because there were no seizure epochs in the control data, the first 10 days were contrasted with the final 10 days.
2. ER\_control\_stats\_first10\_last10.mat
   1. This is the output statistics from “divergenceTest\_ControlAnimals\_first10days\_vs\_last10days.m”
3. EvokedResponses\_Classification\_Exp\_VS\_Con.m
   1. This script builds and tests a classifier to differentiate Pre-seizure experimental data vs the first 10 days of Control data.
   2. Leave-one-out cross validation has 75.51% overall accuracy with an AUC of 0.82
4. Greedy\_Fisher\_LDA\_dim\_red.m
   1. This is a function for dimensionality reduction using greedy linear discriminate analysis. It is used in “EvokedResponses\_Classification\_Exp\_VS\_Con.m”
5. ResponseAnalyzer\_Data
   1. This is a folder holding data specifically for “ResponseAnalyzer.m”
   2. A README has also been included within this folder for general understanding of stored data

These changes have been updated in the README in the “Code” & “Data Analysis” folders.