Study: FFR Molis Tone Glide

Updated: 2/21/2018 by Brandon Madsen

TO DO LIST FOR FUTURE VERSIONS

VERSIONS “IN DEVELOPMENT”

**\_9\_** – Changelog:

1. Added absolute magnitude (uV) by window and sweep count.

(Log updated 2/21/2018 by Brandon Madsen)

ACTIVE VERSIONS

**\_8\_** – Changelog:

1. Changed allowed lag range to 2-22 ms (was previously 4-12 ms). This is based on King et al., 2016, who used 0-20 ms after subtracting out tube delay (we did not subtract out tube delay, so nudged by 2 ms).

(Description updated 1/9/2018 by Brandon Madsen)

**\_7\_** – Changelog:

1. Added a column to indicate whether the file is from an artifact-only run.
2. Made it so user does not have to specify a stim directory if the stimulus info is already included in the “resp” file/struct that is loaded/passed.
3. Added an optional -subfolder input flag to specify putting results in a new m-file-specific subfolder within the passed output directory rather than in the main folder directly.
4. Allow specification of outPath, not just outDir.

(Description updated 12/28/2017 by Brandon Madsen)

OBSOLETE VERSIONS

**\_6\_ (now obsolete)** – Changelog:

1. Switched from “varargin” to named input arguments.
2. Add error message for nonexistent source directories.
3. Allows user to input an existing pre-loaded “resp” structure array Matlab variable directly rather than having to load from MAT format.

(Description updated 12/20/2017 by Brandon Madsen)

**\_5\_ (now obsolete)** – Differences from **\_4\_**:

1. Fixed a bug where lag was being calculated based on the timepoint with maximum *signed* correlation instead of maximum *absolute* correlation.
2. Simplified the calculation of lag by taking out an unnecessary scaling step.
3. Made sure correlations were being displayed in absolute terms in the output spreadsheet.
4. Changed onboard load/save GUI to allow user to manually select as FFR input an existing mat file with processed FFR data.
5. Changed command line display to no longer list individual sweep counts when performing xcorr calculations.

(Description updated 12/4/2017 by Brandon Madsen)

**\_4\_ (now obsolete)** – First complete, stable version. Main differences from **\_3\_**:

1. Pass input and output directories as input arguments rather than hard-coding them.
2. If any directories are invalid or missing as input arguments, have user specify through GUI.
3. Look for existing respWithXCorr.mat file and if found, skip to the spreadsheet part.
4. Eliminate the unused “portfields” function definition. (Maybe put in its own function file in case its useful for something later)

(Description updated 12/4/2017 by Brandon Madsen)

**\_3\_** – Obsolete, unstable. Do not use.

(Description updated 12/1/2017 by Brandon Madsen)