

# **Bold**: folders

Code exclusively stored in the /matlab... folder. Sync your Github branch or fork to this folder. Data exclusively stored in the /data folder. No analysis will be added to the /data folder.

Library state of the state of t

If you want the analysis to start from a clean slate, simply remove the /analysis and /summary folder.

# To run the analysis...

Below are the folder locations for the data for the experiments, and the sequence of .m files to run to generate the plots.

# For behavior across defeat sessions (Figs. 2 – 4)

- /CSDS/data/Stress (social defeat defeated mice)
  - o start\_beh.m (set variable m = 1)
- CSDS/data/Control (social defeat control mice)
  - o start beh.m (set variable m = 2)
  - o start\_beh\_CSDS\_summary.m

## For baseline behavior (Figs. 1 F-I)

- /CSDS/data/Baseline
  - o start\_beh.m (set variable m = 4)
  - o start\_beh\_summary.m (set variable m = 4)

#### For behavior with sucralose (Fig. 1 K-M)

- /Sucralose
  - o start beh.m (set variable m = 11)
  - o start\_beh\_summary.m (set variable m = 11)

# For behavior across defeat sessions, reward type is water only (see Methods)

- /CSDS\_water
  - o start\_beh.m (set variable m = 5)
  - start\_beh\_CSDS\_water.m

# For behavior with randomized trials (Fig. 1J)

- /Randomized
  - o start beh randomized.m
  - o start\_beh\_randomized\_summary.m

# For spontaneous activity imaging (Figs 5-7)

- M2spon\_CSDS/data/Stress (social defeat defeated mice)
  - o start beh.m (set variable m = 21)
- M2spon\_CSDS/data/Control (social defeat control mice)
  - o start\_beh.m (set variable m = 22)
  - o start dffspon compute.m (set variable m = 21)
  - o start\_dffspon\_compute.m (set variable m = 22)
  - start dffspon analyze.m (set variable m = 21)
  - o start\_dffspon\_analyze.m (set variable m = 22)
  - o start\_dffspon\_summary.m

# A table of the imaging experiments

Mouse ID	<u>Virus</u>	Social defeat?
82	GCaMP6f	stressed
83	GCaMP6f	stressed
84	GCaMP6f	stressed
85	GCaMP6f	stressed
88	GCaMP6f	control
9	Bicistronic	control
10	Bicistronic	control
11	Bicistronic	control
1	Bicistronic	stressed
4	Bicistronic	stressed
5	Bicistronic	stressed