

CODE PIPELINE

raw fly data:

datafiles/rawdata/
Turndata_[DATASET_NAME]Yy.mat

raw ABM data:

datafiles/rawdata/
dataABM_[SIMULATION_NAME].mat

drosophila_reshapeSimulationsCell.m

raw human data:

datafiles/rawdata/rawHumanData/
Prolific_[SESSIONID_DATE_TIME].csv
X 50 files

human_selectHumans.m

HumanTurndata_human_visInsp.mat
Turndata_humanHuman.mat
humanHuman_edgesDef.mat

human_mainPreprocess.m

drosophila_selectFlies.m

Turndata_[DATASET_NAME]_visInsp.mat
Turndata_[DATASET_NAME]_edgesDef.mat
poly360_Turndata_[DATASET_NAME].mat
selectedFlies360DBTurndata_[DATASET_NAME].mat
saved_yMinByFly360_[DATASET_NAME].mat

yCorrectionExample.m

drosophila_mainPreprocess.m

output_drosophila_main_[DATASET_NAME].mat
X 14 datasets

drosophila_exampleFlyShort.m

saved_exampleFlyLoc.mat

drosophila_quiverIndivs.m

drosophila_exampleBrownian.m

saved_exampleBrownianLoc.mat

drosophila_pdfYLastTransition.m

flies_PdfLastTrans.mat

drosophila_speed.m

flies_speed.mat

drosophila_normBoundingPolygon.m

flies_boundPolProc_[DATASET_NAME].mat

drosophila_TPI.m

flies_TPIs.mat

Drosophila_tsne.m

drosophila_wallFollowing.m

output_drosophila_MADs.mat,
output_drosophila_MADs_order.mat

drosophila_probEvenTransition.m

flies_pEvenTrans.mat

drosophila_wallFollowingByNumTrans.m

flies_TPIs_noZero.mat

drosophila_longMazeTransAndSims.m

simTransByltiDistY.mat

drosophila_quiverAvg.s.m

output_drosophila_Quivers.m

custom functions:

TPI.m TPI1.m quiverGivenTurns.m ySpeed.m

myBinomTest.m patchline.m p_poly_dist.m circfit.m

external data:

dataBifurcation.csv GODM_TPI.m