This folder contains data and analysis conducted for the manuscript “Social interactions are impacted by food availability and group size”.

The folder “NetworksUpdated\_2024” contains csv files with edgelists of the interaction networks of each experimental group tested for this work. Edge lists were extracted using image analysis code provided in the parent folder.

The R script ‘calculate\_global\_network\_measures\_revised’ takes the networks in the ’network data’ folder and computes global network measures, it also compares different community clustering algorithms and plots the networks. These calculated measures are consolidated with metadata about the networks, that is in the csv file ‘ExperimentsMetadata’.

The R script 'calculate\_individual\_level\_network\_measures' computes network measures at the individual level based on the networks extracted from the 'network data.' It calculates 'betweenness' and 'degree' for each node in the networks, alongside additional information such as group size, conditions, and the date of data collection.

‘ExperimentsMetadata.csv’ – information on the treatment (limited or unlimited food, carbohydrate or protein food, and group size) for each group in the experiment.

“All\_global\_df\_uniform\_thresh\_final.csv” global network measures extracted using the script ‘calculate\_global\_network\_measures\_revised’ for interactions inferred with a uniform threshold distance.

“GlobalMeasureNetworks\_with frame\_info.csv” global network measures extracted using the script ‘calculate\_global\_network\_measures\_revised’ for interactions inferred with a non-uniform threshold distance (from before paper revisions) and includes information on frame rate that was added when revising the manuscript.

‘IndividualMeasureNetworksNewThreshold\_final.csv’ - Individual level network measures extracted when creating the networks in the network data folder – see image analysis folder in parent folder.

The R script “data\_analysis\_and plots\_for\_paper\_final\_revisions\_submit.R” contains all the statistical analysis for the manuscript, as well as the plotting of the data figures in the manuscript. This script requires the data files “All\_global\_df\_uniform\_thresh\_final.csv”, “GlobalMeasureNetworks\_with frame\_info.csv”, “IndividualMeasureNetworksNewThreshold\_final.csv”.