This readme file contains details about the data files and replication code for Chen and Rhola 2018 (C&R 2018), which is now published. The citation information for that paper is:

M.K. Chen & R. Rhola, The Effect of Partisanship and Political Advertising on Close Family Ties. *Science*, 01 June 2018: Vol. 360, Issue 6392, pp. 1020-1024

A near-final version of the paper can be found at Keith Chen's website here, and the final version is available at Science here. This readme file will be periodically updated and expanded as feedback from users are incorporated. For any questions, comments, or to download larger graphics or slides for the paper, please see Keith Chen's website.

Core SafeGraph data:

The core location data has potential privacy implications, and researchers who want to use it must submit a research proposal and agree to limitations aimed at maintaining user anonymity with SafeGraph. Researchers interested in using SafeGraph data can contact them here.

De-identified Replication Files:

To aid researchers in replicating and extending our work, below are descriptions of data and code files available for download.

Data Files: "DataFile_2015_Thanksgiving" and "DataFile_2016_Thanksgiving" are data files that contain smartphone-level de-identified data for Thanksgiving travels in 2015 and 2016 in the continental United States. Observations are smartphone users who have been matched to likely home and travel voting precincts and census blocks using the procedure described in C&R 2018. Researchers who have agreed to the Safegraph data agreement and obtained their core ping files can write to Keith Chen to obtain code to produce these files from the core SafeGraph ping data. A few notes:

- ID_* is a month-specific smartphone user identifier that can be linked using the ID files below.
- Variables that have been merged from the US census using "tract_fips" begin with the level of spatial aggregation that they are available in at the census. So, block_*, bg_*, and tract_* variables are identified at the block, block-group and census tract level, respectively.
- All demographic variables are linked for both a smartphone's imputed home and Thanksgiving travel locations; the later variables start with travel_*.

ID Files: The files "ID_Table_11_15" and "ID_Table_11_16" link users between 2015 and 2016.

Code Files: The files "Thanksgiving_2015_Code" and "Thanksgiving_2016_Code" are code that replicate the regressions, tables, and summary statistics for the paper. A few notes:

- Both files were run on Stata 14 with the free packages *geonear* and *gtool* installed.
- The 2015 file should be run first, as it produces some files necessary to replicate the joint 2015-16 analyses implemented in the 2016 file.

Calculation Files: "Back_of_Envelope_Calculations" is an excel file that takes regression coefficients and predicted values from the code files and produces the back-of-the envelope numbers found in the expositional parts of the paper.