Replication Files

for manuscript Ideational Diffusion and the Great Witch Hunt in Central Europe

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This R Project and associated files were developed for data cleaning and analyses associated with the manuscript "Ideational Diffusion and the Great Witch Hunt in Central Europe." The manuscript will be published in Theory and Society.

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Setup

All scripts were written for R. See the included RMarkdown-produced html report for R session info.

The Leeson & Russ (2017) replication files should be downloaded from https://doi.org/10.1111/ecoj.12498 before doing any replication for this project. Those files contain necessary data and scripts.

Code - in scripts sub-folder

- `Witches_main.R` contains the backbone code to run scripts that clean and merge data from different sources and create new temporal and spatial variables
- `LR_EJ_7-create-panel-data_updated.R` and `LR_EJ_8-create-grid-panel_updated.R` contain code originally written by Leeson & Russ and update for this project to create panel data for cities instead of grids
- `Climate_prep.R` contains code to clean the CCSM4.0 climate data

- `Witches_analysis.Rmd` contains code to reproduce figures and Bayesian regression analyses using brms

Data

Data can be found in the top level folder.

- `BHPR_CentralityUpdated_043022_kdsupdates.csv` - The dataset from Becker, Hsiao, Pfaff, and Rubin of cities in the Holy Roman Empire, with coordinates and centrality measures is available on request from the authors. With their permission, we will share the updated file, with changes made as listed in the main R script.

- `Malleus_USTC_Data-entry.csv` - the dataset of Malleus maleficarum editions collected from the USTC, with publication metadata
- `Malleus_USTC_Data-entry_extended.csv` - as above, but extended for the appendix with the expansion of the USTC to 1700
- `Demonology_USTC_Data-entry.csv` - the dataset of demonological texts collected from the USTC, with publication metadata
- `Demonology_USTC_Data-entry_extended.csv` - as above, but extended for the appendix with the expansion of the USTC to 1700
- `USTC_Editions-by-city_Data-entry.csv` - the dataset that supplies in-text calculations of publication volume for cities where demonological texts were printed
- `Dollinger_GermanHansa_clean.csv` - the dataset of cities participating in the Hanseatic League, with entry and exit dates, from Dollinger (1970)
- `Pagel_DieHanse_clean.csv` - the dataset of cities participating in the Hanseatic League, with entry and exit dates, from Pagel (1983)
- `Jacob_PersistenceGermanCities_clean.csv` - the dataset of cities' political status, from Jacob (2010)
- `Cheney_Catholic-Hierarchy_clean.csv` - the dataset of European cities that were archiepiscopal or episcopal seats (2017)
- `CCSM_climate_net_annual.csv` - Complete CCSM 4.0 data is available for public download; we use netCDF rasterbricks of mean monthly temperature and precipitation 800-1800 CE (very large files! >2GB each, compresses to ~4GB total). We provide the extracted output created in the `Climate_prep.R` script.