Background and Contact

This is the replication package for our book. Please cite:

> Gazmararian, Alexander F. and Tingley, Dustin. 2023. *Uncertain Futures: How to Unlock the Climate Impasse*. Cambridge University Press.

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Software and Package Dependencies

Analyses were performed on a MacBook Pro (M2 chip) with 32 GB of memory running macOS 14.1.1 and using R version 4.3.0 (2023-04-21) [aarch64-apple-darwin20 (64-bit)].

The preamble of each script lists the package dependencies.

Replication Instructions

1. Load the "rep_uncertainfutures.Rproj" R Project environment. Do not set a working directory. The replication package is self-contained, using relative file paths.
2. As described below, the R scripts are organized by survey. The book and Online Appendix describe which survey sample was used, which allows you to identify the corresponding code to replicate the results.

Directory Structure and Scripts

- **code**: This folder contains the R scripts to replicate the results.
- **clawbacks**: The scripts in this folder replicate the results for the clawbacks experiment in both the national and local policymaker samples.
- **fun**: This folder contains custom functions called in other scripts.
- **govcred**: The scripts in this folder conduct the analyses about perceptions of government credibility.
- **localecon**: The scripts in this folder conduct the analyses about perceptions of local economic opportunity.
- **samplestats**: The scripts in this folder create summary statistics for the various samples.
- **solutions**: The scripts in this folder replicate the results for the survey experiments exploring the solutions to build credibility. This includes the multi-attribute policy experiment, the delegation experiment, the lock-in experiment, the promises vs. laws experiment, the hand-tying experiment, and the second-order beliefs experiment.
- **transitioncommunities**: The scripts in this folder create the map of energy communities.

- **transparency**: The scripts in this folder replicate the results for the transparency experiment in both the national and local policymaker samples.
- **workforce**: The scripts in this folder replicate the results pertaining to the green workforce. This includes the costly signaling experiment, youths career views, and the prior notice experiment.
- **data**: This folder contains the processed and de-identified survey data.
- **figures**: This folder contains the figures generated by the R scripts.
- **tables**: This folder contains the tables generated by the R scripts.
- **instruments**: This folder contains our survey instruments.

Data Documentation

The book and Online Appendix describe the sampling procedures.

Local Policymaker CivicPulse Sample

The dataset in this repository is the public access version. Some models include the following covariates, which are only in the restricted access dataset:

- `biden2020`: The proportion of the votes, by county, for Joe Biden in the 2020 Presidential election. Each sub-county government is matched to the relevant county in which it is contained.
- `Census_area_college`: The proportion of 25-years-or-older residents in the given geographic unit who have completed a 4-year, post-secondary degree. This data is from the 2015-2019 Five Year Data from the US Census American Community Survey, as compiled by IPUMS National Historical Geographic Information System (NHGIS).
- `Census_area_population`: The total number of residents living in the given geographic unit. This data is from the 2015-2019 Five Year Data from the US Census American Community Survey, as compiled by IPUMS NHGIS.
- `Census_area_urban`: The proportion of residents in the given geographic unit who reside in an urban area. This data is taken from the 2010 Census, as compiled by IPUMS NHGIS.

There are coarser measures of these variables in the public access data: `County_voteshare_pres_2020_bin`, `Census_area_college_bin`, `Census_area_population_bin`, `Census_area_urban_bin`.

Please sign a Data Sharing Agreement with CivicPulse to access the restricted data. We are happy to connect you to the CivicPulse team.