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This file contains the replication materials for the forthcoming article in Political Behavior: " Nail in the Coffin or Lifeline? Evaluating the Electoral Impact of COVID-19 on President Trump in the 2020 election"

Note: Each R script denotes which R packages are required to replicate the analysis of each respective scripts. Please install these packages for successful replication of each script. Please store all the files in the same directory and set the appropriate working directory as noted at the beginning of each R script for successful replication.

Data Files

- county_level_data.rda: Original county-level dataset compiled by the authors with a host of COVID-19 severity, electoral outcome variables with a host of contextual covariates measuring county-level demographics and political conditions. Please see the manuscript for a detailed account of this dataset. This dataset is required for the following R scripts: (**1) PB_ms_figures_1_2_county_maps.R and (2) PB_ms_county_level_presidential_models.R.**

- state_governors_2020.csv: Original state-level dataset coding the partisanship of a state's governor, which is a control variable in the county-level models. This dataset is required for the following R scripts: **PB_ms_county_level_presidential_models.R.**

- tl_2017_us_county.dbf, tl_2017_us_county.shp, tl_2017_us_county.shx: GIS county-level geographic spatial datasets required for the estimation of county-level spatial dependency models. Please see the manuscript for a detailed explanation of these geographic spatial regression models. This dataset is required for the following R scripts: **PB_ms_county_level_presidential_models.R.**

- voter_panel.dta: Original Voter Study Group VOTER Survey dataset. Launched in 2016, the VOTER Survey (Views of the Electorate Research Survey) interviews thousands of Americans repeatedly as part of an extensive longitudinal study. This is the original non-manipulated dataset downloaded from the original source and we use the September and November 2020 waves of the survey in the manuscript. This dataset is required for the following R scripts: **PB_ms_figures_4_5_6_vs_models_plots.R**

- covid_cd_data.Rdata: Congressional district COVID-19 death severity data compiled by the authors from the Harvard Center for Population and Development Studies' COVID-19 Metrics for United States Congressional Districts Project and the US Census for a measure of total district population. This dataset is used for the individual-level contextual COVID-19 death severity (unit of analysis—cumulative deaths in a congressional district on a given 2020 date) in the Voter Study Group required for the following R scripts: **PB_ms_figures_4_5_6_vs_models_plots.R**

Manuscript Analysis (Figures and Table 2) Replication Files in Analytical Order

1) **PB_ms_figures_1_2_county_maps.R** replicates the following items in the manuscript: 1) Figure 1: Change in County-Level Support for President Trump during the 2020 Election and 2) Figure 2: COVID-19 Severity Across U.S. Counties. This R file uses the data object: county_level_data.rda. This R code creates the following manuscript plots: fig_1_presidential_swing.png, fig2a_total_deaths.png, fig2b_trend_cases.png, fig2c_total_cases.png, fig2d_trend_deaths.png. This data draws on the original county-level dataset county_level_data.rda dataset.

2) **PB_ms_county_level_presidential_models.R** replicates the following items in the manuscript: 1) County-level presidential election models used in Figure 3: County COVID-19 Severity & Change in GOP Presidential Electoral Support. This R file uses the data object county_level_data.rda, datast state_governors_2020.csv, and following GIS shape files: tl_2017_us_county.shp, tl_2017_us_county.shx, tl_2017_us_county.dbf. *R script produces the RData file presidential_model_results.Rda that is necessary for creation of Figure 3 coefficient plots in* **PB_ms_figures_3_presidential_coefficient_plot.R.**

3) **PB_ms_figures_3_presidential_coefficient_plot.R** replicates the following items in the manuscript: 1) Pulls county-level presidential election models estimated in R code "PB_ms_county_level_presidential_models.R" and creates the coefficient plot in Figure 3: County COVID-19 Severity & Change in GOP Presidential Electoral Support. The R code creates the following manuscript plots: fig3_county_level_presidential_results.png.

4) **PB_ms_figures_4_5_6_vs_models_plots.R** replicates the following items in the manuscript: 1) Analysis of the September & November waves of the Voter Study data for Figure 4: Relationship Between Public Health Concern & Political Support for President Trump, 2) Analysis of the September & November waves of the Voter Study data for Figure 5: Relationship Between Local Severity Context & COVID-19 Attitudes, and 3) Analysis of the September & November waves of the Voter Study data for Figure 6: Relationship Between Public Health Concern/Restrictions Concern & Political Support for President Trump. This R script draws on data from voter_panel.dta and covid_cd_data.Rdata. The R code creates the following manuscript plots: fig4_vs_presidential_models_health_concerns.png, fig5_vs_health_restriction_attitudes_models.png, and fig6_vs_presidential_models_health_restriction_concerns.png.

5) **PB_table2_covid_restrictions_public_opinion.R** replicates the cross-tabulation articulated in Table 2: Percent of Partisans Who Believe COVID-19 Restrictions Are Being Li ed Too Slowly in the manuscript. This R script draws on data from voter_panel.dta creates the following manuscript LaTex cross-tab file: table2_restrictions_cross_tabulation.tex.

Manuscript Full Model Tabular Results Replication Files

1) **PB_ms_presidential_county_model_tables_appendix1A_to_4A.R** replicates all aggregate county-level models articulated in the manuscript and the coefficient plot in Figure 3. Code replicates the full county-level model results presented articulated in the following tables of the appendix: Table 1A (regression results for presidential analysis using total cumulative COVID cases per 10,000 residents), Table 2A (regression results for presidential analysis using weekly trend in COVID cases per 10,000 residents), Table 3A (regression results for presidential analysis using total cumulative COVID deaths per 10,000 residents), and Table 4A (regression results for presidential analysis using weekly trend in COVID deaths per 10,000 residents) convey the full model results of the point estimates shown in Figure 3 of the manuscript. Note that this code creates a series of LaTex files corresponding to each individual table.

2) **PB_ms_vsg_model_tables_appendix.R** replicates all Voter Study group analysis presented in Figures 4, 5, and 6 of the appendix. Code replicates: (1) Full model tables of the September & November waves of the Voter Study data for Figure 4: Relationship Between Public Health Concern & Political Support for President Trump articulated in Appendix Tables: 13A (DV: Trump COVID-19 Approval), 14A (DV: Trump Vote Intention), 15A (DV: 2016 HRC-2020 DJT Electoral Preference Change), 16A (2016 DJT-2020 JRB Electoral Preference Change); (2) Full model tables of the September & November waves of the Voter Study data for Figure 5: Relationship Between Local Severity Context & COVID-19 Attitudes articulated in Appendix Tables: 23A (DV: COVID-19 Public Health Concern), 24A (DV: COVID-19 Restrictions Concern) and (3) Full model tables of the September & November waves of the Voter Study data for Figure 6: Relationship Between Public Health Concern/Restrictions Concern & Political Support for President Trump articulated in Appendix Tables: 18A (DV: Trump COVID-19 Approval), 19A (DV: Trump Vote Intention), 20A (DV: 2016 HRC-2020 DJT Electoral Preference Change), 21A (2016 DJT-2020 JRB Electoral Preference Change). Note that this code creates a series of LaTex files corresponding to each individual table.