

## Letter

### Fixed Effects and Post-Treatment Bias in Legacy Studies

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*P*epinsky, Goodman, and Ziller (2024, American Political Science Review, PGZ) reassess a recent study on the long-term consequences of concentration camps in Germany. The authors conclude that accounting for contemporary (i.e., post-treatment) state heterogeneity in the models provides unbiased estimates of the effects of camps on current-day outgroup intolerance. In this note, we show that PGZ's empirical strategy rests on (a) a mischaracterization of what regional fixed effects capture and (b) two unrealistic assumptions that can be avoided with pre-treatment state fixed effects. We further demonstrate that results from the original article remain substantively the same when we incorporate regional fixed effects correctly. Finally, simulations reveal that camp proximity consistently outperforms spatially correlated noise in this specific study. The note contributes to the growing literature on legacy studies by advancing the discussion about the correct modeling choices in this challenging field.

**A** prominent set of studies in political science shows that long-deceased coercive institutions often continue to influence contemporary political attitudes and behavior (e.g., Acharya, Blackwell, and Sen 2016a; Lupu and Peisakhin 2017; see Charnysh, Finkel, and Gehlbach 2023; Simpser, Slater, and Wittenberg 2018 for reviews). Reliably establishing legacy effects is challenging. It requires making robust causal inferences over a very long time span during which the treatment could have affected not only the outcome but also other variables relevant for the analysis. To deal with this challenge, most legacy studies explicitly address post-treatment bias by employing appropriate methods such as the sequential g-estimator.


Building upon the analytical strategies established in the legacies literature, Homola, Pereira, and Tavits (2020; HPT) explore the long-term political consequences of the Third Reich. The results show that current-day political intolerance, xenophobia, and voting for radical right-wing parties are associated with proximity to former Nazi concentration camps in


Germany. This conclusion relies on a series of analyses using election results and data from two different surveys to measure contemporary attitudes and behavior.


Pepinsky, Goodman, and Ziller (2024; PGZ) re-examine HPT and argue that state-level differences confound the relationship between distance to camps and out-group intolerance. To overcome this issue, PGZ add contemporary state fixed effects to HPT's models and find that proximity to concentration camps is no longer a reliable predictor of intolerance. The authors posit that contemporary states, although mainly formed after the Third Reich, do not introduce post-treatment bias if the following assumptions hold: (a) contemporary cross-state heterogeneity is not in the causal path between camp proximity and contemporary attitudes, and (b) there are no unobserved variables that jointly explain contemporary state differences and contemporary outgroup intolerance or camp proximity.

We agree that it is important to think carefully about spatial heterogeneity in the historical legacies literature. HPT's original analysis accounts for regional heterogeneity by including controls such as the local-level share of unemployment and foreigners, urban status, or a dummy for East vs. West Germany. While HPT considered these solutions sufficient and did not find a theoretical motivation to include state fixed effects, other scholars operating in good faith might find doing so important for theoretical or empirical reasons.

We also agree with the authors that adding variables observed post-treatment to a model does not *always* bias the estimates. However, PGZ's conclusion that current-day state fixed effects do not risk inducing post-treatment bias rests on a dual and inconsistent interpretation of what regional fixed effects capture.

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The authors emphasize the importance of accounting for regional heterogeneity by noting that “Länder fixed effects adjust for any factor (observable or not) that varies across German Länder” (520). Any political, economic, or social dynamic that varies across states is captured by geographical fixed effects. However, the meaning of this same construct shifts when PGZ describe the conditions for contemporary state fixed effects to induce post-treatment bias: “unless distance to concentration camps (T) causally affects postwar Länder boundaries (F), controlling for Länder fixed effects cannot create posttreatment bias” (521). This statement is incorrect. Following the definition that PGZ used earlier, contemporary state fixed effects induce post-treatment bias if “any factor (observable or not) that varies across German Länder” is a direct or indirect descendant of proximity to concentration camps. In other words, we need to assume that Nazi concentration camps had no effects whatsoever that vary systematically across states. Even with a perfectly random geographic distribution of the camps across Germany, this assumption only holds if camps had no effects at all on the economic and social structure around them—something that is not consistent with existing evidence (Charnysh and Finkel 2017; Hoerner, Jaax, and Rodon 2019). In brief, the very reason why PGZ emphasize that state fixed effects are important is also the reason why we should be concerned about post-treatment bias.<sup>1</sup>

In the remainder of this note, we first discuss the plausibility of the assumptions invoked by PGZ to support their empirical strategy. Next, we describe how it is possible to account for state-level heterogeneity in HPT’s analyses without risking post-treatment bias or M-bias and without requiring PGZ’s strong assumptions. By replacing PGZ’s contemporary state fixed effects with Weimar-era state fixed effects—the state boundaries in place at the time when the first camps were built—the results in HPT remain substantively unchanged. In the Supplementary Material (SM), we further assess the robustness of the findings to spatial correlation by replacing the geographic variable in HPT with spatially correlated noise, an appropriate alternative to assess spatial autocorrelation (Kelly 2019). The simulations suggest that camp proximity consistently outperforms spatial noise as an explanatory variable. Finally, we conclude with some general recommendations for future studies when scholars are concerned about spatial heterogeneity affecting their inferences.

Taken together, the note contributes to the growing literature on legacy studies by offering practical solutions for correctly dealing with regional heterogeneity in this challenging field. It also highlights the impor-

tance of thinking carefully about what statistical tools and concepts (e.g., fixed effects) represent and account for, as well as their underlying assumptions.

## POST-TREATMENT BIAS AND HOW TO AVOID IT

Post-treatment bias occurs when an analysis conditions on a variable that is directly or indirectly affected by the treatment and also shares a common cause with the outcome of interest. Post-treatment bias is especially problematic because without very strong assumptions, it is impossible to know how it affects our estimates of interest. Neither the direction nor the magnitude of the bias are possible to anticipate (Elwert and Winship 2014; Montgomery, Nyhan, and Torres 2018).

To overcome these difficulties in settings where we have strong theoretical reasons to include variables that are measured post-treatment, complex modeling strategies and additional assumptions are necessary. The sequential g-estimator is one such approach (Acharya, Blackwell, and Sen 2016b). The method starts by estimating a model with pre-treatment and post-treatment covariates (first stage). Next, it recalculates the outcome variable by removing from it the effects of the mediating variables of interest. Finally, it estimates the effect of the treatment on this “demediated” outcome (second stage). The model allows us to incorporate post-treatment confounders and mediators without incurring in post-treatment bias.

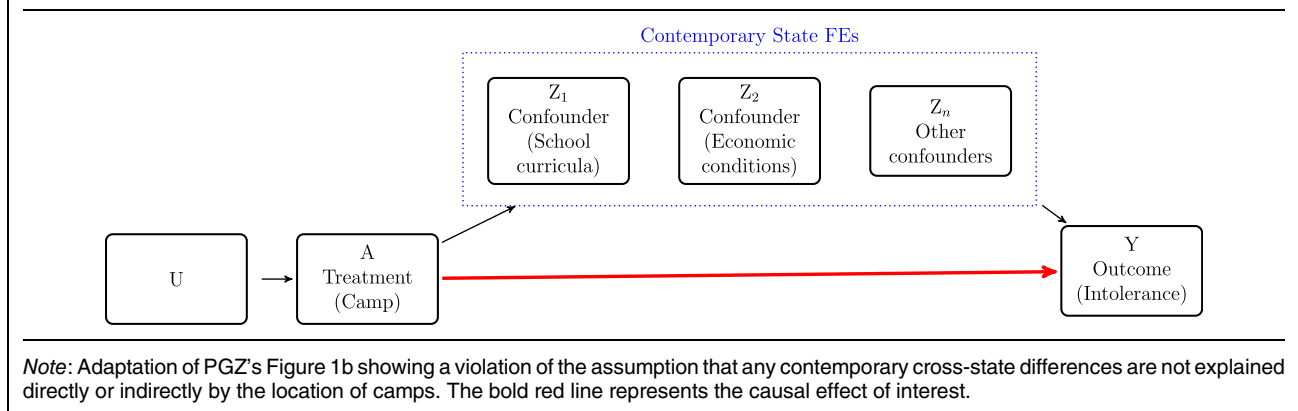
Figure 1 shows a causal relationship between different types of variables of interest, where the flow of causality runs from left to right. We have a set of pre-treatment variables  $X$ , the treatment variable  $A$ , a mediator  $M$ , and the outcome of interest  $Y$ . In addition, there are two types of confounders:  $Z$ , which is affected by the pre-treatment variables and the treatment, and  $W$ , which is not. Both  $Z$  and  $W$  confound the relationship between the mediator and the outcome.

In HPT, the treatment  $A$  is the distance of a survey respondent (or area in the analyses with electoral data) to the closest former concentration camp, and the outcome of interest  $Y$  is captured by different indicators of out-group intolerance. The authors use variables like a district’s share of Jews in 1925 or unemployment rate in 1933 as pre-treatment variables  $X$ . We can think of an individual’s ideology as a mediator  $M$ , and of the control variables (e.g., a respondent’s employment status) as confounders  $Z$  that are likely to be affected by  $X$  and  $A$ . Other controls, such as age or gender, can be thought of as confounders  $W$  that are unlikely to be affected by  $X$  and  $A$ .

To analyze this data structure, HPT employ the sequential g-estimator (Acharya, Blackwell, and Sen 2016a; 2016b; Robins et al. 1992). PGZ introduce contemporary state fixed effects into this setup. As recognized by the authors, decades passed between the construction of the camps and the creation of the German states we know today. Only 6 of the 16 current

<sup>1</sup> Additionally, PGZ’s argument rests on a second implausible assumption: that any predictor of outgroup intolerance, such as economic conditions or cultural resentment, *does not* vary systematically by state, and that there is no unexplained variation driving camp locations and contemporary state heterogeneity.



**FIGURE 2. Violation of PGZ's Assumption 1**

surrounding areas, and we know that some small states have multiple camps whereas some large states have no camps, then these camp effects are necessarily leading to state-level differences that are (a) clearly post-treatment, and (b) would be picked up by fixed effects. The results of Charnysh and Finkel (2017) demonstrate exactly this: the area surrounding the Treblinka camp in Poland experienced a real estate boom following the closure of the camp, and local communities in the area are subsequently more supportive of an anti-Semitic party. In other words, the camp had attitudinal effects that were concentrated in the region surrounding the camp and would be picked up by contemporary state fixed effects.

Figure 2 expands a section of Figure 1 to illustrate our points. This DAG corresponds to Figure 1b in PGZ. Contemporary fixed effects are likely to capture a collection of post-treatment confounders which induces post-treatment bias.

### PGZ's Assumption 2: No Collider Bias

PGZ's empirical strategy relies on a second assumption: that contemporary state differences are not explained simultaneously by (a) a variable that also predicts contemporary outgroup attitudes (the outcome) and (b) a variable that predicts camp proximity (the treatment). Violating this assumption leads to a form of collider bias (M-bias) and produces spurious causal inferences.

PGZ defend this assumption by stating, "there is no interpretation of German administrative history that matches any of the hypothetical causal structures [described by the authors]" (524). Once again, PGZ reduce state fixed effects to a matter of administrative borders. However, once we acknowledge what regional fixed effects capture, this assumption becomes considerably less plausible.

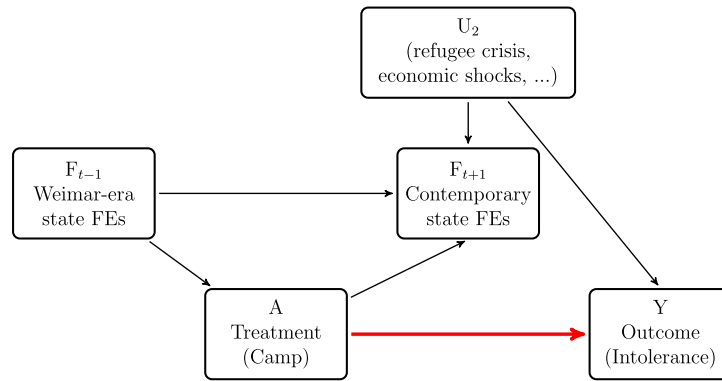
First, virtually all of the canonical predictors of outgroup intolerance in Germany are geographically clustered in certain areas and can therefore also drive cross-state differences. These include economic insecurity (Funke, Schularick, and Trebesch 2016), perceived

cultural threat (Norris and Inglehart 2018), globalization "winners" and "losers" (Kriesi et al. 2006), and perceived security threat (Ward 2019). Second, there is, in fact, a plausible predictor of contemporary state differences *and* camp proximity: the Weimar-era states. As PGZ describe, the states in place prior to the creation of the camps overlap with contemporary states at least partly. Additionally, the geographical clustering of the camps described above means that Weimar-era states predict camp proximity. Figure 3 puts this in formal terms using the DAG presented by PGZ in Figure 2b. Weimar-era states ( $F_{t-1}$ ) are a predictor of the treatment (A) and PGZ's fixed effects ( $F_{t+1}$ ); in turn, conventional predictors of outgroup intolerance ( $U_2$ ) influence contemporary state heterogeneity and the outcome. This violates the implausible and untestable assumption that  $F_{t+1}$  is not a collider.

These examples reveal the challenges of making assumptions about causal structures with variables that capture many sources of variation, such as regional fixed effects. By introducing in the causal model an amorphous cluster of variables that cannot be isolated, PGZ are forced to rely on untestable and implausible assumptions. Next, we describe two solutions to avoid the assumptions invoked by PGZ: (a) correctly specifying contemporary regions as post-treatment variables, or (b) using pre-treatment state fixed effects.

### Two Solutions to Account for Regional Heterogeneity

Consider again the causal relationship in Figure 1. PGZ treat contemporary state fixed effects as pre-treatment variables  $X$ . Above, we described different ways in which this modeling choice induces post-treatment bias. However, g-estimation provides a way to overcome these flaws. Instead of treating contemporary states as pre-treatment variables, we consider them to be post-treatment confounders  $Z$ . This assumes that contemporary states are confounding the relationship between the mediator (e.g., ideology) and the outcome (e.g., out-group intolerance), which makes intuitive sense and is in line with the potential confounding

**FIGURE 3. Violation of PGZ's Assumption 2**

Note: Adaptation of PGZ's Figure 2b showing a violation of their assumption that there are no predictors of contemporary state differences ( $F_{t+1}$ ) and camp proximity (A). The bold red line represents the causal effect of interest.

effects of state heterogeneity that PGZ discuss (“unsynchronized policy environments” and “substantial variations in school curricula”). HPT adopt this same procedure to account for systematic differences between East and West Germany.

In terms of the estimation, this means that contemporary state fixed effects should appear in the first stage of the sequential g-estimator, *but not in the second stage*. Recall that the goal of the first stage is to accurately estimate the effect of the mediator on the outcome to successfully “de-mediate” the outcome before the second stage. The confounders  $W$  or  $Z$  (i.e., the contemporary state fixed effects) are only relevant for this part of the estimation and should not be included in the second stage.

An alternative solution to avoid post-treatment bias involves replacing contemporary state fixed effects with pre-treatment state fixed effects. We use Germany's administrative map from 1932 as seen in Figure SM2.1 to identify the corresponding Weimar-era state for each present-day geographic location. We chose 1932 because it is the year before the first German camp was created (Dachau, March 1933). Theoretically, the use of the Weimar states means that we are now working with true pre-treatment variables  $X$  (cf. Figure 1). The Weimar states might affect camp locations (the treatment) through their policy environment or other unobserved factors that the other pre-treatment variables did not capture. They can also affect some of the contemporary confounders ( $Z$ ) and the outcome variables ( $Y$ ). Empirically, it means that the Weimar state fixed effects can now be included in both stages of the g-estimator without inducing post-treatment bias.<sup>4</sup> Crucially, because these are now pre-

treatment variables, we do not have to make *any* assumptions about how they might be affected by the treatment.

Finally, we combine both approaches by including contemporary state fixed effects in the first stage and Weimar-era state fixed effects in both stages of the g-estimator. This third specification allows us to simultaneously account for historical regional differences that may explain camp location, and for any post-treatment confounder that varies systematically across contemporary states.

Together, HPT, PGZ, and the current note provide an extensive list of models with different data sources and model specifications. To help the reader follow this collective effort, Table SM1.1 summarizes the different main specifications modeling the effect of camp proximity on contemporary outcomes.

## Results

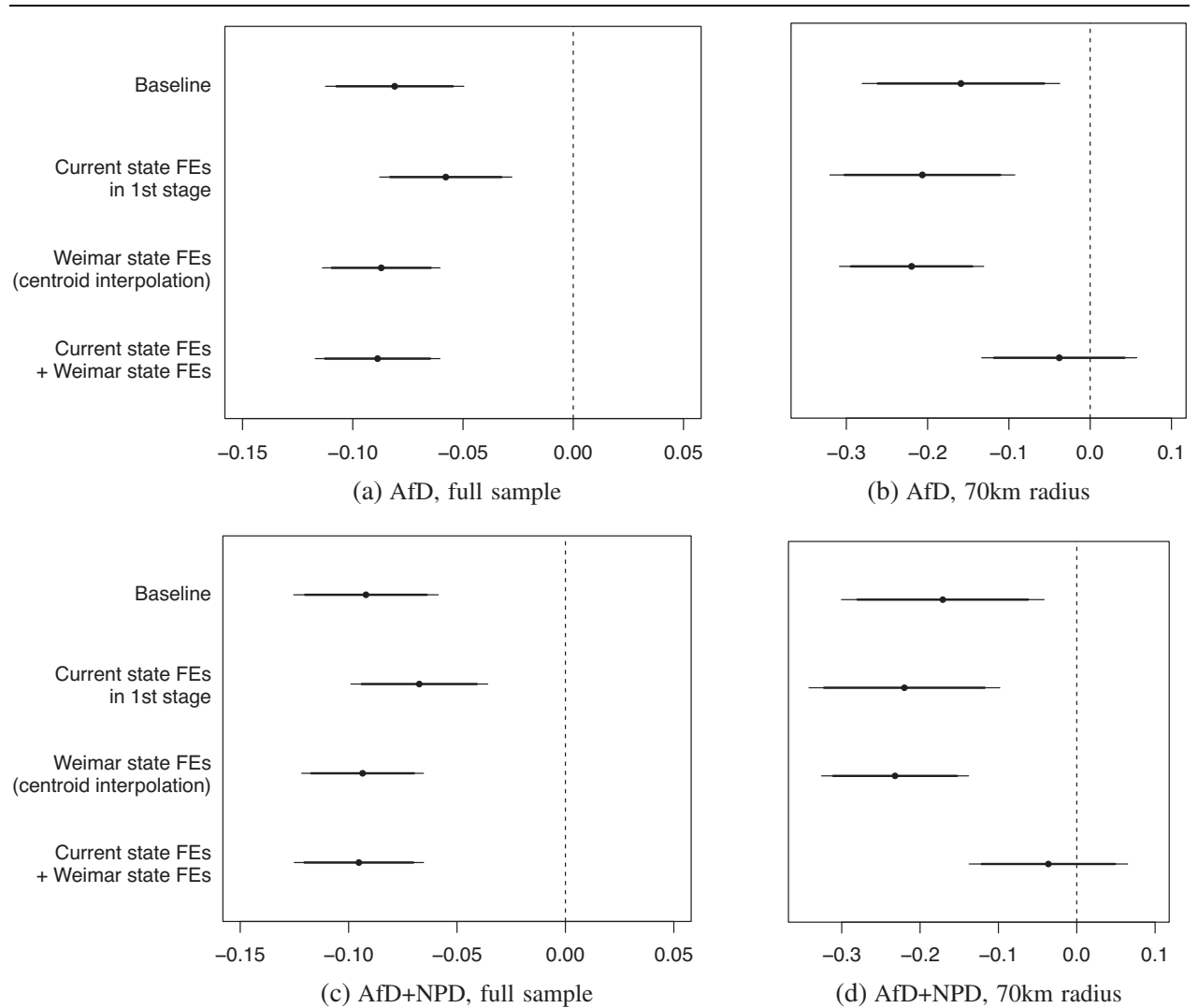
We replicate the main analyses in HPT (Tables 2 and 4) while including (a) contemporary state-level fixed effects in the first stage of the g-estimator, (b) Weimar-era state-level fixed effects in both stages of the g-estimator, and (c) both contemporary states *and* Weimar-era states.<sup>5</sup>

Figure 4 replicates the four columns of Table 4 in HPT. Each panel shows the controlled direct effect of camp proximity on support for radical right parties in 2017 for four different model specifications. The first coefficient (*Baseline*) is the effect reported in HPT. The second coefficient (*Current state FEs in 1st stage*) reports the results from the same model specification when we also include contemporary state fixed effects in the first stage of the g-estimator. The third coefficient (*Weimar state FEs*) corresponds to the models including Weimar-era

<sup>4</sup> PGZ also include an analysis with Weimar-era fixed effects, but they treat Prussian internal provinces as separate states. As a result of this further geographical slicing, the effects of camp proximity are no longer reliable. In Section SM5, we discuss these analyses in greater detail and explain that the decision to split Prussia into provinces is arbitrary and atheoretical. Additionally, we show that when we

include province-level fixed effects in the electoral analysis, HPT's main findings remain unchanged.

<sup>5</sup> The analyses do not include ALLBUS data because access to the dataset requires an in-person visit to the GESIS facilities in Cologne.

**FIGURE 4. The Controlled Direct Effect of Camp Proximity on Support for Radical Right Parties in 2017, Accounting for State-Level Heterogeneity**

*Note:* Plots depict estimates and 95%/90% confidence intervals from the sequential g-estimator for the controlled direct effects of distance to camps on support for radical right parties in 2017 (described in each panel label). Each estimate corresponds to a different model specification, described on the y-axis. The baseline specification corresponds to the results reported in Table 4 in HPT ( $N = 10,755$  [a,c] and 3,949 [b,d]). Full model results for the remaining specifications in Tables SM3.1–SM3.3.

state fixed effects in both estimation stages. Finally, the last coefficient (*Current state FEs + Weimar state FEs*) corresponds to models simultaneously accounting for contemporary regional differences in the first stage and Weimar-era fixed effects in both stages.

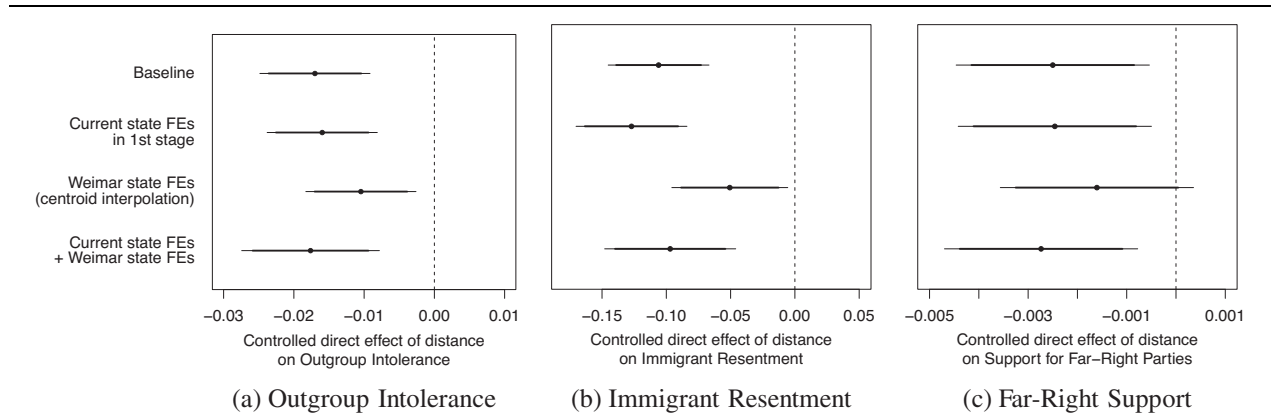
The results show that the main conclusions in HPT are robust to the inclusion of state fixed effects. Across the different specifications, we see that the effect of distance is always negative and statistically reliable at conventional levels except for the models within a 70-km radius and with pre- and post-treatment regional fixed effects.<sup>6</sup> We also do not observe any dramatic change in the uncertainty of the estimates.

<sup>6</sup> We originally used the models focusing on a 70-km radius around each camp because they lead to samples that are better matched in

The three panels in Figure 5 repeat this exercise for HPT's EVS analysis. More specifically, each panel replicates the results in columns 2, 4, and 6 of Table 2 in HPT, respectively, corresponding to a different outcome variable.<sup>7</sup> We report the controlled direct effect of camp proximity for the same four model specifications as in Figure 4.

terms of potential confounders. However, this approach includes dropping over 60% of all data points and consequently also implies a loss of variation in the treatment. The models with pre- and post-treatment fixed effects include a total of 33 regional fixed effects. Given the already restricted sample, it is, therefore, not surprising that the effects are no longer statistically reliable at conventional levels.

<sup>7</sup> Figure SM4.2 replicates columns 1, 3, and 5 from the same table, with OLS models. The same substantive results are obtained.

**FIGURE 5. The Controlled Direct Effect of Camp Proximity on Outgroup Intolerance, Immigrant Resentment, and Support for Far-Right Parties (EVS), Accounting for State-Level Heterogeneity**

Note: Plots depict estimates and 95%/90% confidence intervals from the sequential g-estimator for the controlled direct effects of distance to camps on contemporary attitudes (described in each panel label). Each estimate corresponds to a different model specification, described on the y-axis. The baseline specification corresponds to the results reported in Table 2 (models 2, 4, and 6;  $N = 1,376$ ) in HPT. Full model results for the remaining specifications in Tables SM4.1–SM4.3.

Again, we find support for the original conclusions. Across the different outcome variables and fixed effects specifications, we see that the effect of distance is always negative and reliable. When we introduce contemporary state fixed effects as post-treatment variables, the main results are virtually unchanged. When Weimar-era fixed effects are introduced, the effect sizes decrease slightly in all models. However, for both attitudinal measures (panels a and b), the effects remain statistically significant. Only the estimate for self-reported far-right support (panel c, coefficient 3) is no longer distinguishable from zero at conventional levels ( $p$ -value = 0.11), although the estimated effect is indistinguishable from the result obtained in the baseline model without state fixed effects. When using contemporary and Weimar-era fixed effects, the main results remain unchanged. Overall, the evidence reveals that once we account for spatial heterogeneity in a way that avoids post-treatment bias, the results uncovered in HPT remain unchanged.

## DISCUSSION

Our goal with this research note is to contribute to the discussion of how to deal with regional heterogeneity in studies of historical legacies. We discuss the specific challenges that the inclusion of fixed effects may pose in work that tries to estimate the impact of historical events. We identify two obstacles that scholars need to overcome in order to avoid post-treatment bias. The first challenge is theoretical. Informed by theory and qualitative evidence, scholars need to decide what type of confounding they want to correct while recognizing that regional fixed effects capture any source of variation across units. This determines which regional units to control for: historical or current ones. In the context of legacy studies, this choice is crucial given that borders are

often redrawn throughout history and capture an amorphous set of heterogeneity that may be directly or indirectly on the causal path of interest. The second challenge entails making the correct modeling choices, for example, correctly specifying the g-estimator to avoid post-treatment bias. The types of regional units used (pre-treatment or post-treatment) define how they can be incorporated in the analysis and, in turn, whether the results are biased.

We show that these obstacles are real and consequential using the example of PGZ's criticism of HPT. PGZ failed to overcome both of the obstacles listed above, which led to post-treatment bias in their analysis. Properly introducing regional fixed effects in HPT's original analysis—without inducing post-treatment bias—confirms our original results.

As a general recommendation for future studies, if there are concerns about regional confounding along administrative borders that are justified based on the researcher's background knowledge of the case, we suggest using fixed effects based on borders established pre-treatment given the amorphous nature of factors captured by regional fixed effects. However, two other methods are better equipped to deal with geographical heterogeneity and treatments that have localized effects: (1) subsetting the analysis into small (and varying) radii around the source of effects and (2) sensitivity analyses to spatial autocorrelation. The former solution is already adopted in HPT. We perform the second method in Section SM6 and show that spatial correlation is not a relevant threat to inference in this specific context. We believe these approaches offer a more principled solution than using fixed effects to deal with spatial autocorrelation because they reduce researcher degrees of freedom and allow scholars to move beyond arbitrary administrative borders (see Fouka and Voth 2023 for a similar approach).

Our note offers practical reminders about the problem of post-treatment bias and guidance on how to avoid it in historical analyses. We highlight that, while commonly used, the choice of whether or not to include fixed effects is not straightforward in this context. It pays to pause and think whether fixed effects are warranted at all, and if yes, how to properly include them without introducing further bias into the analysis. Ultimately, we hope to highlight the important interplay of theory and empirics, especially in the inherently complicated assessment of the present-day consequences of events that took place decades ago.

## SUPPLEMENTARY MATERIAL

To view supplementary material for this article, please visit <https://doi.org/10.1017/S0003055423001351>.

## DATA AVAILABILITY STATEMENT

Research documentation and data that support the findings of this study are openly available at the American Political Science Review Dataverse: <https://doi.org/10.7910/DVN/YTXZ6X>.

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## CONFLICT OF INTEREST

The authors declare no ethical issues or conflicts of interest in this research.

## ETHICAL STANDARDS

The authors affirm this research did not involve human subjects.

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