# The Return of the King: Political Conflict and Female Labor Force Participation* 

Job Market Paper

Xanthi Tsoukli ${ }^{\dagger}$

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#### Abstract

Little is known about the effects of political conflict on the status of women in society. If conflicts result in opinions move to the extremes, then more conservative areas might become less favorable to women, while more left-leaning areas might become more favorable. To consider this, the case of Greece after the Second World War is exploited, a time when the country became highly polarized between left and right ideologies, resulting in a three-year civil war. A referendum regarding the reinstatement of the (conservative) monarchy is used as an indicator of political beliefs, and, in a differences-in-differences setting, it is demonstrated that $10 \%$ greater political opposition to the monarchy implied that female labor force participation was $1.4 \%$ higher after the war. A plausible mechanism is through conservative areas becoming more conservative and liberal areas becoming more liberal, and data on the construction of new churches, a conservative institution, are consistent with this hypothesis. Finally, it is found that these effects were persistent, as reflected by female labor force participation until 1981, and attitudes revealed in the European Value Survey of 1999.


JEL: J21, J71, N34, N44, P16, R23, Z13
Keywords: political conflict, female labor force participation, gender norms, Greece

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## 1. Introduction

A fundamental change in labor markets over the past hundred years has been the increased participation of women and the subsequent change in their role in society. There is however still a wide variation in female labor force participation rates across the world that has been attributed to cultural beliefs regarding gender roles and their persistence (Alesina et al., 2013; Fernández, 2013; Goldin and Olivetti, 2013; Carranza, 2014; Grosjean and Khattar, 2018). Gender norms tend to arise when a shock takes place that affects the current working status of women, as famously illustrated by the example of the First World War. Little is however known about the role of violent ideological conflicts, such as civil wars. These might, by polarizing attitudes, result in a similar effect on gender roles, if for example left-wing ideologies challenge conservative views to a degree that the acceptance of working women becomes the new norm. Political polarization is often accompanied by social movements that might generate better institutionalized policies for previously disadvantaged groups, and therefore lead to better-quality democracies (Haggard and Kaufman, 2016; LeBas, 2018). In turn, better-quality democracies might support less conservative institutions, and create the conditions whereby social norms are changed.

The present work exploits just such an example and demonstrates that the Greek Civil War of 1946-49, which pitted conservative supporters of the monarchy against socialist and communist opponents, led to an increase in female labor force participation in areas where left-wing opponents of the ensuing conservative regime were more numerous, as measured using the results of a referendum about the return of the conservative monarchy. Moreover, it is demonstrated that this pattern of female labor force participation is persistent over time, and the underpinning attitudes of the populace can even be detected in modern survey data, as well as differential increases in the number of churches, a conservative institution. Figure 1 illustrates a general upward trend in female labor force participation over the past one hundred years, with declines immediately following the Civil War, as well as during the rule of the unstable and far-right Military Junta between 1967 and 1974. Kottis (1990) attributed the decline over this latter period to a change in the industrial structure of the country, and found that urban areas followed a U-shaped development, while rural areas experienced a sharp and almost linear decrease. I demonstrate that the secular increase illustrated in Figure 2 is the consequence of the polarization of views which occurred during the Civil War.

This paper makes several important contributions. First, the results add evidence to the relatively new literature examining the relationship between cultural differences in gender roles and female labor market outcomes, and more specifically, that which shows the effects of historical shocks on gender specific outcomes. It is known that historical shocks, such as demographic shocks impacting on sex ratios, can affect gender norms (Angrist, 2002; Acemoglu et al., 2004; Fernández et al., 2004; Francis, 2011; Fernández, 2013; Carranza, 2014; Grosjean and Khattar, 2018; Teso, 2018; Boehnke and Gay, 2020). Recent important work shows the origins of cross-cultural differences matter for national differences in gender roles (Fernández, 2007; Fernández and Fogli, 2009; Alesina et al., 2013; Hansen et al., 2015; Xue, 2016). I add to this literature by showing that political differences expressed as
extreme views regarding gender roles can impact on female labor force participation.
Second, this paper contributes to a vast literature that focuses on the effects of violent conflicts on women's empowerment. In their recent work regarding gender political engagement after a violent conflict, Hadzic and Tavits (2019) suggest that women do not engage in post-conflict political life due to perceptions regarding the masculine nature of politics. Intuitively, their findings point towards the importance of gender stereotypes in women's lives and they urge future policies to narrow this gender gap (Hadzic and Tavits, 2019). Gender norms are hard to change, but the literature finds that there are situations and events during political violence that give the opportunity to change these norms and empower women (Bouta et al., 2005; Petesch, 2017). Petesch (2017) shows that women living in areas affected by conflict not only have a stronger sense of empowerment themselves, but consistently report that other women from their local community participate more in the economy and have experienced improvements regarding their domestic roles. Direct effects of conflicts such as deaths and displacements change the composition of households and therefore directly force women and men to adopt new roles (Justino, 2017). The most long-term, indirect changes are the social and economic composition of communities and societies that could, as a result, lead to institutional changes. I show that increases in female labor force participation occur in areas where greater changes in social norms have been made possible by violent conflict.

Finally, this paper contributes to the literature on persistence, and the idea that an important channel explaining the effects of shocks on female labor force outcomes is the transmission of social and cultural norms through generations (Gay, 2019; Fernández, 2013). In line with previous work (Cantoni et al., 2019; Bursztyn et al., 2020), I also demonstrate the persistence of political views and their correlation with gender norms.

The differences-in-differences method employed takes the vote share in the referendum about the return of the King, which took place prior to the Civil War, as the treatment capturing the potential for polarization during and after this period of violent conflict, given that for most of the country conservative forces dominated, making their political opponents a minority. It has been shown that exposure to opposing political views increases political polarization (Bail et al., 2018), and this paper thus contributes to the literature that studies the effects of political polarization on economic outcomes. The results are in line with work by LeBas (2018) according to whom there are two conditions under which polarization could generate positive outcomes. First, the two political parties should have roughly even forces, regarding popular support and/or dependencies. Second, there should not be preexisting identity separations, for example between citizens and non-citizens, where common ground would be difficult to find. Applying these two conditions in the Greek context, it should be noted that by the time of the war the population had been fairly homogeneous regarding demographic and religious characteristics, while popular support was divided fairly equally between the two opposing groups (Polymeris and Ioannis, 2017; Paravantes, 2019). Thus, it is credible to hypothesize that the polarizing effect of the war might have had a positive impact on the lives of Greek women. Relevant to this finding is the work of Frye (2002), who investigates the effects of political polarization between ex-communist and anti-communist factions on economic growth. In his cross-
country quantitative analysis, he measures polarization as the share of seats of the largest ex-communist faction when an anti-communist holds the executive. Thus, polarization reflects the level of opposition to the current regime. He finds that political polarization makes it difficult for governments to make coherent policies, which slows down economic growth. Previous work on political polarization has investigated the causes of such an event and predominantly linked it to income inequality (Winkler, 2019; Duca and Saving, 2016; Grechyna, 2016), trade exposure (Autor et al., 2020) or exclusive democracies and conflict (LeBas and Munemo, 2019).

The mechanism underlying the relationship between violent conflict and female labor force participation takes advantage of a theory of conservatism, developed by Wilson (1941), who attempted to explain the differences between conservatives and radicals in the year 1941. Wilson's arguments are explained in detail in the conceptual framework, but he establishes that conservatives are eager to sustain social norms including domestic gender roles while the left-wing would fight for a change towards equality not only within the society, but also within the household. Webster et al. (2019) investigate several channels that connect the effect of conflicts on women's empowerment in a cross-country setting. They conclude that domestic gender norms are resistant to change and a major shock, such as a violent conflict, often plays a significant role in provoking social and political changes.

Figure 3, panel A demonstrates that the relationship between political opposition to the King and changes in female labor force participation remains flat between the pre-war years 1920 and 1928, while it has a positive slope of 0.19 between the years 1928 and 1951 (panel B). This relationship holds in a difference-in-differences setting: provinces with a larger share of votes against the return of the King have higher levels of female labor force participation after the war. In fact, a 10\% increase in political opposition results in a 1.4 percentage point higher female labor force participation on average. Previous findings in the literature suggest that female labor force participation follows a U-shape development; it increases during war, but decreases in the years immediately following, when men return claiming back their roles as breadwinners (Goldin, 1991; Goldin and Olivetti, 2013; Kottis, 1990). The same pattern can be identified in relation to the Greek Civil War, with the distinct and important difference that female labor force participation rates remain higher in areas with less support for the King during the Civil War. This result thus provides intrastate evidence that historical shocks could impact gender roles and specifically could change the lives of women and men dramatically regarding their roles in households and communities (Fernández, 2013; Grosjean and Khattar, 2018).

As regards the proposed mechanism, that it was the polarization of conservative and anticonservative values, as revealed by the extent of support for the King, that had an impact on labor markets, the present work presents two pieces of supporting evidence. First, it is demonstrated that provinces which were politically opposed to the return of the King, were less supportive of the spread of conservative institutions, as measured by the construction of new churches after the war. Second, it is shown that historical political views correlate with current political views. If social norms are persistent, this provides additional evidence that they played a role in determining labor market outcomes for women (Fontana et al., 2017; Cantoni et al., 2019; Bursztyn et al., 2020).

The results are robust when including a number of controls, such as linear time trends, sex ratios, World War II occupation zones, pre-war election result shares and other provincespecific characteristics. In addition, the results cannot be explained by a number of channels, mainly related to the direct effects of violent conflicts, e.g. gender imbalances in sex ratios. I also explore the validity of the identifying assumption. The vote share in the referendum was not randomly distributed, as provinces with higher concentration of communist shares before the war experienced greater opposition to the conservative regime, namely the monarchy. Using pre-war election data from the year 1932, it is shown that although the votes do correlate as expected, the pre-war communist vote shares do not systematically increase in areas opposed to the King. More importantly, the correlation does not disprove the identification, as the political opposition to the King does not correlate with pre-war trends in female labor force participation. To make the identification stronger, the paralleltrends assumption is relaxed in several ways. First, by controlling for province-specific time trends; second, by controlling for department-specific fixed effects; and third, by testing for non-linearity by dividing the treatment into three groups. The results remain in line with the baseline estimates.

As a falsification test, I examine whether the opposition to the conservative regime has the same effect on the male labor force participation. If this was the case, then the interpretation of the opposition to the current regime, as challenging the gender norms and laying the basis for social change regarding women's role in society, is overestimated. Consistent with the expectations based on the hypothesis, this paper finds no evidence of changes in the male labor force participation as a result of the variation in political views across the country.

Finally, although time-invariant province-specific World War II damage costs are controlled for in the fixed effects, it has been suggested that German troops differed from other Axis troops (Mazower, 2000; Panourgia, 2009; Polymeris and Ioannis, 2017) in regards to potential damage. Thus, another falsification test performed in the paper is the use of the different occupation zones during the Second World War as the main driver of the variation in female labor force participation. Consistent with the results based on the fixed effect specifications, I find no evidence that the different zones affected female labor force participation via regional damages.

The remainder of this paper is organized as follows. Section 2 discusses the historical background and the conceptual framework motivating the hypothesis. Section 3 describes the data and the identification strategy. In Section 4, the empirical results on the effects of political opposition on female labor force participation are presented, while section 5 shows the mechanisms that underpin the effects and their persistence. Section 6 concludes.

## 2. Background

### 2.1. Historical Context

Despite attempts at ensuring ethnic homogeneity, the turbulent events of the first half of the twentieth century found Greece polarized and politically fragmented. Greece was not
standing alone in its suffering; foreign interventions left the country divided and in despair of violence that appeared to be critical for its later development (Iatrides and Wrigley, 1995). From the First World War, two main parties were at the frontline and resulted in the National Schism; first, the Velizelists or the liberals guided by the open-minded and Western-friendly political figure Eleftherios Venizelos, and second the Anti-Venizelists or the populist supporters of the monarchy. Yet the main distinction of the two opposing groups was not regarding social policies, but mostly appearances and opportunistic attempts regarding personal ambitions and vendettas (Iatrides and Wrigley, 1995). The Greek voters of the 1920s and the 1930s were neither ideologists nor radical, they were caught between two options: Venizelism, representing the republicans and Anti-Venizelism, representing the monarchists. Both were conservative with minor ideological differences.

Even though the 1920s and the 1930s were filled with political and economic instability, and continuous warfare interrupted by failed attempts at reconstruction and development, the decade to come proved to be even more crucial and turbulent. Despite efforts to maintain neutrality, Greece was forced into the Second World War, when it refused to surrender to the Italian forces that attempted to conquer the country on October 28, 1940 (Close, 1995). During the Second World War, Greece was under a triple occupation, due to the strong resistance movement led and organized by the National Liberation Front (EAM) controlled by the Greek Communist Party (KKE). After years of Axis occupation and a year and a half of failed attempts to form a government after the Second World War was over, the Communists met the British and Greek governments to sign the Varkiza Agreement that would settle issues regarding the post-war political regime. The British, who were highly involved in the Second World War as allies and continued to be after the war, insisted on the return of the monarchy. The main element of the agreement was the decision to hold a referendum regarding the return of the King (Paravantes, 2019). Prior to the referendum, elections took place and the first post-war government was solidly monarchist, led by the populist party (Close, 1995). Yet, the communists, who had initiated and organized the resistance movement throughout the Second World War, felt entitled to a part of the government (Polymeris and Ioannis, 2017). Since the monarchy was not overwhelmingly popular, there was the risk that the King would be voted out, which was opposed not only by the royal family itself, but most importantly by the British, who feared Soviet control over the Mediterranean and the beginning of the Cold War. Therefore, the British promoted the referendum as a vote for or against democracy, which for them was clearly linked to the monarchy (Paravantes, 2019). Thus, the share of the population voting against the King can be interpreted as those who truly supported the effort for social change and the abolition of the conservative regime.

On September 1, 1946, the referendum was held. A large share of communists ended up boycotting the referendum due to concerns regarding its validity, resulting in a clear majority voting for the return of the King. Once the monarchy was restored, the communists re-organized the Democratic Army (EAM) which had fought the fascist occupiers during the Second World War, in an attempt to overthrow the King. Thus, between 1946 and 1949 Greece was facing a full-scale civil war between the Greek government, supported by the British and later the Americans, and the EAM. During the civil war, communists were not only killed but also persecuted, imprisoned and displaced (Christodoulakis, 2016). The

Civil War in Greece put an end to the National Schism of the 1920s and 1930s between Venizelists and Anti-Venizelists (Iatrides and Wrigley, 1995), as it was a genuine revolution of the left coalition in an attempt to abolish the monarchy and reconstruct the country into a democracy of the people. The communists were therefore not simply a rebel military faction that aimed to overthrow the King, but can rather be characterized as political activists in search of radical change in the political and social system (Iatrides and Wrigley, 1995; Panourgia, 2009). Despite the return of the King, the referendum of 1946, in which many communists abstained, revealed the areas that had the largest share of left-wing support, and thus were more prone to supporting a meaningful change of the current regime. This political polarization was at its peak at the time of the referendum, paving the way for a post-war national reconciliation.

### 2.2. Conceptual Framework

The emergence of concentrations of left-wing political views, provoked by a violent conflict, can lead to an increase in female labor force participation because conservative institutions are weakened and social norms are relaxed, leaving room for change. Thus, this paper starts by testing the following hypothesis:

Hypothesis 1: Provinces politically opposed to the current regime experienced to a greater degree higher rates of female labor force participation.

If the first hypothesis stands, then the next question regards the mechanism through which political oppositions can impact on female labor force participation. Conflicts can create the appropriate conditions for women to change roles which were previously perceived as normal. Given that the norm in the Greek social order was patriarchal (Anagnostopoulou, 2001), the shock of a conflict could force society to find a new equilibrium (Webster et al., 2019). War can potentially change the role of women in many ways. Women might fight in the war alongside their male counterparts, not only due to necessity, but also as a way of protecting their families. Women might also be called upon to take up more social responsibilities outside their household, and to participate in social movements against the war. Anagnostopoulou (2001) describes the active role of Greek women during the civil war as fighters and as organizers of social movements regarding communist political prisoners. Since women were actively involved within and outside the household during the war, an opportunity for social change opened up after the fighting had ceased.

According to Wilson (1941), "the conservative is happiest when he is unconscious of politics, and when the essential propositions of social organization do not have to be defended. (...) Conflict and political struggle are conscious and purposeful". The fight for radical change is not in the interest of a conservative. Instead, a conservative would prefer the economic, social and political environment to remain unchanged. On the other hand, left-wing ideologies are driven by the desire to alter the current political regime towards a more equal distribution of power and wealth. To be a radical in the era of the 1940s was very different to today, since the norm at the time was to be conservative. Therefore, opposing the norm at that time was usually accompanied by a form of conflict.

It is thus considered reasonable to argue that conservatives are eager to sustain social
norms including domestic gender roles while the left-wing would fight for a change towards equality not only within society, but also within the household. For a conservative, a wellfunctioning society includes inequalities in all aspects. The distribution of this inequality might change, but only due to the fights of the radicals that they also consider part of the norms. Based on the above, a second hypothesis is presented:

Hypothesis 2: Provinces politically opposed to the current regime to a higher degree would relax the current gender norms and therefore rely less on conservative institutions such as churches.

The perceived normal function of society was the conservative view of the woman responsible for looking after the household and child-bearing, thus limiting her responsibilities to the confines of the home. That was the case before the war, where women were mainly housewives, unless it was necessary for them to work due to poverty. The war changed this equilibrium and transformed the role of women. During the Greek Civil War, a large share of women participated as fighters, who were thus imprisoned and displaced like their male counterparts. The ones that were left behind took more responsibilities outside the household, participating both in the labor force and in social life through social movements. This might therefore have impacted on the establishment of conservative institutions, such as churches.

Finally, if gender norms are persistent, it should be possible to detect them even in more recent times, giving the final hypothesis:

Hypothesis 3: Provinces historically opposed to the return of the King remain left-wing and sustained their less conservative gender norms.

## 3. Data Description

### 3.1. Female Labor Force Participation

I collected data on female labor force participation at the province level for six census years, covering periods before and after the civil war, from 1920 until 1981. ${ }^{1}$ The census year 1920 was the first to include the annexations from the Balkan wars, and therefore reports statistics for the entirety of the country as it is today. ${ }^{2}$

The population is divided into two broad categories; the economically active and the economically inactive. The economically active is further sub-categorized into employed and unemployed or currently seeking work. The records (and even sometimes the defini-

[^1]tions) varied in each of the censuses. For reasons of consistency, the female labor force participation rate is defined as the share of women that are economically active. This includes women that are employed, unemployed or actively searching for a job in the year of the census. The female labor force participation (FLFP) is calculated as the share of economically active women in the total female population in a province for the years 1920-1981. Figure 4 shows the average female labor force participation between 1920 and 1981. Due to several years of warfare, namely World War II and the Civil War, the levels of labor force participation in the census year 1951 are very low. In fact, women reportedly worked even less than in 1920. This was not specific to female employment; the total labor market shows similar patterns in 1951. While many women could not enter the labor force in 1951, a significant increase is observed in 1961, followed by an overall decrease due to structural changes in the markets (Kottis, 1990). In order to perform a falsification test, I have also collected data on male labor force participation (MLFP) data, defined in the same way. MLFP has a similar decreasing trend during the war years (from 1928 to 1951) as their female counterparts, but stabilizes after the war, unlike the FLFP rates, see Figure 5.

The analysis uses data from as early as 1920, instead of e.g. 1913, for two reasons. First, Greece was not the same size in 1913 as the years from 1920 onward. Caught between wars, namely the Balkan wars and World War I, the data cannot be considered representative, as the population in the regions subsequently annexed were not part of the censuses. Secondly and most importantly, there was no systematic registration of female employment at the province level. An estimation of the more detailed data would have caused great measurement errors in an already distorted source of information.

The number of women in the labor force are available at the province level for all census years, apart from 1971, where the FLFP was available only at the department level. I estimated the province level numbers based on the allocation of the female shares of labor force participation in the departments in the previous year (1961). That being said, there should be measurement errors regarding this year's labor force. The prediction is verified when the levels of female labor force participation across provinces is calculated based on the ratio of the province population size over the department population size in 1971, and approximately results to similar female labor force participation rates.

### 3.2. Measurement of Political Opposition

I define political opposition as the share of votes in a practice of direct democracy, that is a public referendum, that opposed the current regime at the time, the monarchy. There was not yet female suffrage. This gives validity to the variation of the treatment, as the outcome of interest is female labor force participation and the fact that women did not have the right to express their opposition to conservatism leaves the decision to men that traditionally were the breadwinners of the household. I digitized the results of the referendum provided by the Hellenic Statistical Authority ELSTAT (2019).
The political opposition is measured as the share of votes against the return of the King in the size of the electorate of the province, excluding invalid votes and non-participants. The referendum was boycotted by the communists due to the timing and the way the British
chose to promote it. The British promoted the question as if a vote against the monarchy would be a vote against democracy (Paravantes, 2019). The share of left-wing ideologies would therefore be underestimated based on this measure, but this gives validity to the treatment for the following reasons. Areas that still voted against the King were mainly those willing to change the social political order, despite their partisanship. The political opposition measures the exposure to this exogenous group of people. Areas with higher levels of political opposition express higher levels of left-wing ideologies in an otherwise conservative country, and therefore experienced the civil war more intensively. For instance, if $28 \%$ of the voters in the province of Thessaloniki did not support the return of the King in the referendum of 1946, the level of political opposition of Thessaloniki would be 28. The larger the share of votes against the King in a province, the larger the exposure to the potential for change in the province.

Figure 6 maps the distribution of political opposition in percentage points across all 139 provinces. The data are missing for one department that belonged to Italy in 1946 and the province of Mount Athos that is located in the Northeastern part of the country, because those areas did not participate. ${ }^{3}$ Political opposition ranges from $0.04 \%$ in Oetylon to $83.99 \%$ in Apocoronas, with an average of $30.16 \%$ and a standard deviation of $22.56 \%$. Throughout the paper the political opposition is used flexibly as a continuous predictor, comparing differences in outcomes across provinces that experienced a $10 \%$ increase in political opposition.

To test the linearity of the treatment, the provinces were divided into three groups based on their level of political opposition, by sorting the treatment from low to high and based on percentiles, see Figure $7 .{ }^{4}$ The "low" group includes provinces with share of opposition up to the first quartile; the "medium" group consists of provinces with share of opposition between the first and third quartile; and in the "high" group, provinces with share of opposition greater than the third quartile are included. The empirical estimates show that the results are driven by the "high" group when compared to the "low" group and their magnitude and significance remain unchanged. ${ }^{5}$

## Sources of Variation of Political Opposition

The level of political opposition is interpreted as the level of exposure to opposing ideologies to monarchy. An exploration of province-specific characteristics before the war allow for an understanding of the sources of variation in political opposition across provinces and strengthen the validity of the treatment. ${ }^{6}$ Table 1 reports the estimates when regressing political opposition rates on relevant pre-war characteristics.

Provinces with greater political opposition rates had lower female labor participation before

[^2]the war (Column 1). This could be explained by structural differences in the labor markets. Yet, when controlling for urbanization, urbanization itself is not significant and therefore not driving the variation of political opposition. Nevertheless, the relative trends show that there are no significant differences in the levels of female labor force participation across provinces with different levels of political opposition. As expected, provinces with larger shares of communist votes show greater opposition to the King (Columns 2-5). In addition, the share of votes for the center parties is positively correlated to rates of political opposition. The share of communists, the share of center votes and the exact location of the provinces explain more than $40 \%$ of the variation in political opposition across provinces (Column 3). The exact location is crucial, due to the diverse nature of the Greek landscape. When including all variables, both characteristics show statistical significance, although the communist share is greater in magnitude (Column 4-5). Finally, their significance does not change when including department fixed effects (Column 5). An unexpected, yet encouraging, result is that urbanization is not correlated to political opposition. This fact removes concerns regarding pre-conditions for industrial activities after the war, that would be problematic for the identification. The communist share and the province coordinates, indicating the exact location, will be used as the main controls in the analysis.

## Pre-trends in Female Labor Force Participation

The identification relies on the assumption that female labor force participation rates show no pre-war trends among provinces with different levels of political opposition. Figure 8 shows that before the war the female labor force participation follows a similar trend in areas with low, medium and high political opposition, although areas with high opposition had a slightly downward trend relatively to provinces with low and medium opposition. The levels of female labor force participation are normalized to 100 in 1951. In addition to the larger increase in the high group of political opposition, the gap in female labor force participation persists for the next two years.

To be certain that the identifying assumption of the empirical model is met, I regress political polarization rates on changes in female labor force participation before the war and after the war. Before the war, there was a slight relative decrease in the female labor force participation, but this is not statistically significant and is very close to zero, as shown in Panel A of figure 3. This indicates that before the war, there are no pre-trends in the changes of female labor force participation across provinces with varied levels of political opposition to the monarchy. Panel B of figure 3 shows that after the war, the change is positive and statistically significant with a slope of 0.19 .

## 4. Political Opposition and Female Labor Force Participation

### 4.1. Baseline Estimates

To investigate the effects of the level of political opposition on the female labor force participation rate, a difference-in-differences approach is used. The Identification comes from relative changes in female labor participation across provinces with varying levels of political opposition. The baseline results are estimated using the following specification:

$$
\begin{equation*}
F L F P_{p, t}=\beta \text { PoliticalOpposition }_{p} \times \operatorname{post}_{1949_{t}+\gamma_{p}+\delta_{t}+\epsilon_{p, t}, ~}^{\text {, }} \tag{1}
\end{equation*}
$$

where $F L F P_{p, t}$ denotes the female labor force participation rate in province p and year t of the census data and is calculated as a percentage. PoliticalOpposition ${ }_{p}$ is the share of votes against the return of the King in the Referendum of 1946 in province p, while post $1949_{t}$ is an indicator for year $\mathrm{t}>1949$ that was the end of the civil war. Province fixed effects $\gamma_{p}$ are included in the estimation, such as pre-existing trends of female labor force participation rates that could be area-specific. Province fixed effects control for provincespecific unobservable characteristics that are constant over time and could influence the local levels of female labor force participation. For example, some provinces are closer to mountainous areas than others, and therefore might provide better conditions for the concentration of rebel groups (Close, 1995; Christodoulakis, 2016). In addition, some provinces might have experienced larger damage costs during World War II and therefore reveal lower female labor force participation rates due to larger destruction in infrastructure. Year fixed effects $\delta_{t}$ controls for shocks that are common to all provinces. The coefficient of interest is $\beta$ and it is interpreted as the change in percentage points of the female labor force participation as the political opposition to the current monarchist regime increases by 10 percentage points after 1949.

Prior to showing the OLS estimates, Figure 9 illustrates the main finding in 1961. The graph plots labor force participation rates for women aged 15 and older over political opposition, measured as the share of the vote against the return of the King based on the referendum in 1946. The larger the political opposition to the monarchy, the higher the female labor force participation rate. The unconditional relationship in Panel A is positive and statistically significant with a t-statistic of 2.34 . When including controls on pre-war share of communist votes and province geographical location in Panel B, a similar pattern is illustrated with even larger magnitude and a $t$-statistic of 2.95 .

Table 2 reports the OLS estimates of the effect of varying levels of political opposition on female labor force participation. Column (1) includes only year fixed effects and province fixed effects, while column (2) reports the estimates when adding controls for the communist vote share and province coordinates, the most statistically significant pre-war characteristics across provinces. The coefficient $\beta$ is positive, statistically significant and is not affected by the controls. After 1949, a 10\% increase in the political opposition to the King results in a $1.4 \%$ increase in the female labor force participation rate.

When further controlling for urbanization and sex ratio, the results do not change (Column 3) and remain statistically significant. Column 4 shows that the result remains when all controls are taken into consideration together with department fixed effects. Even when the specification includes department-specific linear time trends (Column 5), which is a much more restrictive approach, the magnitude of the result increases and the model explains $0.5 \%$ more of the variation in female labor force participation rates, without dropping its statistical significance. Consistent with the main hypothesis, provinces politically opposed to the current regime to a higher degree, experience significantly larger rates of female labor force participation. Even though violence creates destruction, when the conflict is political, in areas that are exposed to opposed political ideologies, opportunities for economic empowerment opened up to minority groups, such as women.

## Year-specific difference-in-differences estimates

To understand the effects through time, the assumption that the effect was constant though time is now relaxed and the year-specific effects are estimated using the flexible difference-in-differences approach as specified in the following equation:

$$
\begin{equation*}
F L F P_{p, t}=\sum_{\substack{t=1920 \\ t \neq 1951}}^{1981} \beta_{t} \text { PoliticalOpposition }_{p} \times \text { Year }_{t}+\gamma_{p}+\delta_{t}+\epsilon_{p, t} \tag{2}
\end{equation*}
$$

The reference year is 1951 and therefore excluded in the analysis, due to being the closest to the shock. The Year $_{t}$ is an indicator for each of the remaining census years, namely 1920, 1928, 1961, 1971, and 1981.

The year-specific results from equation 2 are illustrated in Figure 10. The coefficients of the effect on pre-war years are close to zero and not statistically significant, suggesting that there are no pre-war trends in labor force participation that are driving the results. ${ }^{7}$ The effects in the years following the war are positive and significant with a slight decrease in the magnitude though the years. Specifically, in provinces that experienced a $10 \%$ increase in political opposition, the increase of the female labor force participation rate ranges from 1.9 percentage points in 1961 to 1.8 in 1971 to approximately 1.5 in 1981. When including controls, the results do not change almost at all. What is striking in the results is that the effect of variation in political opposition persists for more than 30 years after the end of the war. Conveniently, this points to the mechanism of persistence in gender norms and conservative attitudes towards women. The model explains approximately $68 \%$ of the variation in female labor force participation due to increases in political opposition, which provides confidence that the specifications capture a large part of the story. Table 3 reports the year-specific estimates in detail.

[^3]
### 4.2. Male Labor Force Participation as Falsification Test

A potential interpretation of the results could be that the political opposition and hence the violence of the Civil War had an impact on the labor force participation of both genders. Therefore, analyzing the effects of the level of political opposition on male labor force participation is important. Table 4 reports the estimates of the effects of political opposition on male labor force participation rates. ${ }^{8}$ Clearly, table 4 provides evidence that rejects the alternative hypothesis that the civil war impacted male employment. For every specification, the effect is close to zero and not statistically significant. Table 5 reports the year-specific difference-in-differences estimates. When relaxing the assumption that the effect of political opposition on male labor force participation rates was constant through the years, the results remain statistically insignificant and close to zero. This falsification test confirms the hypothesis that the impact was on women, rather than labor force participation as a whole.

Consistent with the argument that political opposition paves the way to changes in gender norms, the results confirm that this political shock led to higher rates of labor force participation among women. In addition, the result motivates the construction of hypotheses in the next section regarding the mechanisms through which this might have worked.

### 4.3. Controlling for Province-Specific Time Trends

In order to verify that differential trends in female labor participation across provinces are not affecting the results, the baseline specification controls also for province-specific time trends:

$$
\begin{equation*}
F L F P_{p, t}=\beta \text { PoliticalOpposition }{ }_{p} \times \operatorname{post1949}_{t}+\gamma_{p}+\delta_{t}+\lambda_{p} \times \mathrm{t}+\epsilon_{p, t}, \tag{3}
\end{equation*}
$$

where $\lambda_{p}$ is the province-specific linear time trend. The results are reported in table 6 . The specifications in table 6 are the same as in table 2, which reports the baseline results by estimating equation 1. All coefficients are statistically significant and their magnitude is extremely close to the estimates presented in table 2 . This suggests that differential pre-war trends in female labor participation might slightly bias the baseline estimates upward, but the difference with the baseline estimates is extremely small.

### 4.4. Test for non-linearity

Next, the political opposition is measured as the share of votes against the return of the King, and is divided into three groups based on their level; low, medium and high. After sorting the treatment from minimum to maximum values, the "low" group is defined as the share of votes less than the 25th percentile; the "medium" group is the share of votes between the 25th percentile and the 75th percentile; and the "high" group is the share of votes more than the 75th percentile. ${ }^{9}$ The groups are used to test whether the identification strategy in Equation 1 is valid. The estimators of the pre-war periods test whether these

[^4]types of political opposition had been trending similarly. This test exploits the potentially non-linear relationship between political opposition and female labor force participation. If a high group province has a lower estimate than the medium group, then the linear estimation is not appropriate. If this is the case, then the interpretation of the baseline estimates would not be correct. To test this, the following equation is estimated:
\[

$$
\begin{equation*}
F L F P_{p, t}=\beta \text { PoliticalOpposition }_{g} \times \operatorname{post1949}_{t}+\gamma_{p}+\delta_{t}+\epsilon_{p, t} \tag{4}
\end{equation*}
$$

\]

where PoliticalOpposition could be PoliticalOpposition $_{\text {low }}$, PoliticalOpposition $_{\text {medium }}$ or PoliticalOpposition ${ }_{\text {high }}$ based on the groups created for the treatment. Using the low group as reference, table 7 reports that the results are driven by the group with the high rate of political opposition. This means that the continuous treatment truly captures the effects of the increase and the distribution of the treatment is rather linear.

## 5. Mechanisms

After establishing the positive and significant effect of the political opposition on female labor force participation, the investigation of the mechanisms explaining this relationship follows. Conceptually, the main explanation is hidden in the political polarization that was caused by the Civil War. This means that the fundamental ideological differences between the extreme political views that fought the Civil War can provide an explanation for the larger increase of female labor force participation in the areas with larger shares of left-wing political views. This section begins with an investigation of the variation of the effects based on potential structural differences in the local labor markets. After solving this potential issue, I test the two hypotheses that were constructed based on the conceptual framework. A measure of conservatism is suggested, using the cumulative number of churches in provinces and the establishment of a relationship between the concentration of churches and political opposition. Next, I investigate the persistence of the social values, focusing on the beliefs regarding gender norms using the European Value Survey of 1999, as the first relevant and consistent study that Greece participated in. In Appendix D, I show that the spatial variation of the marital status and the age structure of the female population and the structural differences in labor markets cannot explain the increase in the labor force participation in the areas with high concentrations of left-wing citizens.

### 5.1. Structure of Labor Markets

An analysis of the local labor market structure follows to examine if there are specific occupations driving the results. One potential interpretation of the results could be that areas that experienced political opposition in a larger degree, and therefore were impacted by the civil war in more severe ways, receive less investments to comply with the government's decision to change the economy from agricultural to industrial after the war. One could then hypothesize that the increase in female labor force participation can be associated with
the variation in total labor force participation towards specific occupations. ${ }^{10}$ To disentangle the structure of labor markets from female labor force participation, the paper estimates the following equation:

$$
\begin{equation*}
\text { Sector }_{s, d, t}=\beta \text { PoliticalOpposition }_{d} \times \text { post1949 }_{t}+\gamma_{d}+\delta_{t}+\epsilon_{s, d, t} \tag{5}
\end{equation*}
$$

where Sector $_{s, d, t}$ denotes the size of sector $s$, measured as the number of people in department $d$ and year $t$ of the census data and is calculated as a percentage of the total population in the department. PoliticalOpposition ${ }_{d}$ is the share of votes against the return of the King in the Referendum of 1946 in department d. Department fixed effects and year fixed effects are included. Table 8 shows that the effects of exposure to political opposition on the share of labor working within specific economic sectors, such as agriculture are not statistically significant, and their magnitude is very close to zero. The only economic sector that is statistically significant at the $10 \%$ level is the transportation, but the magnitude is very small.

### 5.2. The Conservatism Channel

I use the number of churches in province as measurement of conservatism. The vast majority of churches, as reported in the building census of 1991, were built before 1919. It is therefore reasonable to assume that the destruction of the Second World War affected churches and monasteries. Thus, I hypothesize that areas with greater concentration of churches given the size of the population are more conservative as the demand for church attendance is higher. Areas with less demand for reconstruction of churches are considered less conservative, and therefore capture a proxy for level of conservatism. Table 9 explains how the number of churches are reported in the Building Census (1991). The year in the dataset (Column 1) represents the number of churches of Column 2. For example, in year 1919 the number of churches in the province includes all the churches and monasteries built in the province up to the year 1919. As shown in Figure 11, areas with low, medium and high shares of voters against the return of the King have similar changes in the number of churches before the war, while the number of churches increases in areas with greater shares of supporters of the King after the war. This difference in concentration of churches persists throughout the sample years.

$$
\begin{equation*}
\text { Churches }_{p, t}=\beta \text { PoliticalOpposition }_{p} \times \operatorname{post1949}_{t}+\gamma_{p}+\delta_{t}+\epsilon_{p, t} \tag{6}
\end{equation*}
$$

where Churches $_{p, t}$ denotes the cumulative number churches in province p in year t , measured per 1000 people. The PoliticalOpposition ${ }_{p}$ represents the political opposition, measured as the share of votes against the return of the King in the Referendum of 1946 in province p. Province fixed effects and year fixed effects are included. Table 10 shows that the effects of exposure to political opposition on the number of churches per 1000 people are statistically significant at the $5 \%$ level consistently for all specifications. A $10 \%$ increase

[^5]in political opposition leads to a decrease in the demand for churches in the province, as less churches were built after the war. These results provide evidence for the decline of conservative institutions when exposed to opposed political views.

Table 11 reports year-specific estimates supporting that there was no difference among provinces before the war, as the estimate is close to zero and not significant. After the war, in areas with a greater share of political opposition, less churches were built, which confirms the reduced demand for religiosity. Religiosity has been used as a measurement of conservatism and the number of churches built up to the census year seems a relevant measure to illustrate the intensity of the political beliefs across provinces (Wilson, 1941). The year-specific coefficients show no pre-trends when using different identifications. This suggests that the parallel-trends assumption holds and the results are statistically significant and robust.

### 5.3. Persistent Gender Norms

Social norms persist through time and are transmitted across generations (Grosjean and Khattar, 2018; Fernández, 2013). The political polarization in Greece was among two extreme political views, the conservatives and the left. There are fundamental differences between the two groups regarding social values, e.g. family structure and marriage, religion, migration policies, etc. An important different view regards gender roles, i.e. what the role of a woman is in a society. From the conservative perspective, the roles in the household are very specific and distinctive. The man is the one who works and the woman takes care of the household and raises the children. Therefore, it could be argued that in a conservative society, women are not participating in the labor market unless needed.

Table 12 shows the correlations between left-wing share of votes as reported in 1999 and a number of survey questions that relate to gender norms, answered in the European Value Survey by a representative sample of population in 1999 (Gari et al., 2012). The answers have been coded as "conservative" and "left-wing". A positive and statistically significant relationship indicates that left-wing opinions regarding gender roles correlate with left-wing votes. It is obvious in the table that most left-wing gender-related beliefs correlate with the relevant voting behaviors. For example, the question regarding equal contribution by both the husband and the wife in the household is correlated with the Voting Preference as reported in 1999 in the European Values Survey. In order to test if the beliefs are persistent, the paper links the recent voting preferences to the historical votes regarding the return of the King. To accomplish that, the votes are aggregated to the department level for both the historical and the contemporary data and figure 12 illustrates that the views on gender norms are persistent and shape the way a society views women and other minority groups for the next generations. It is extremely hard to change social norms and Greece has proven to be a useful case for testing this hypothesis, as the female labor force participation is even nowadays not as high as the male labor force participation and society is adapting at a much slower pace to the European family types and gender roles. There are only 13 observations, as I aggregated the individual-level data into departments to link them to the historical departments, but the correlation is positive and statistically significant.

## 6. Conclusion

This paper reports significant and long-lasting effects of a political conflict on female labor force outcomes. I show that a $10 \%$ increase in concentration of political opposition to conservative institutions has a positive and statistically significant impact on female labor force participation rates by 1.4 percentage points on average. This effect persists for more than 30 years after the outbreak of the political conflict and is driven by province-level variation in political opposition to the monarchist regime. The level of political opposition reflects the intensity of the political conflict, as the civil war in Greece was a struggle between left-wing and conservative ideologies that polarized society politically. To measure the political opposition, the paper exploits a referendum that took place right before the outbreak of the civil war in 1946. The share of votes against the return of the King represents the level of political opposition to the monarchy.

The results of political opposition leading to political conflict on female labor force participation are in line with results by Petesch (2017) on the post-conflict society in Liberia, where gender norms changed and women were empowered, as they increased their participation in labor markets and political life. This paper provides evidence that provinces more exposed to political ideologies opposed to monarchy show significantly higher rates of female labor force participation. This increase can be explained by the differences in social values of the two opposing groups, conservatives and left-wing. In fact, the paper shows that an increase of political opposition leads to a decline in demand for conservative institutions, such as churches. The results are robust when including controls, such as the share of communist parties, province coordinates, indicator of urbanization and sex rations. Other robustness checks include a falsification test that uses as an outcome male labor force participation, showing zero impact; control for province-specific linear time trends verify that differential trends in female labor participation across provinces are not affecting the results; and grouping the political opposition shows that there are no non-linearities driving the results. Moreover, data from the European Value Survey of 1999 reveal persistence of attitudes regarding gender roles.
Finally, it is shown that the effect of the exposure to political opposition on female labor force participation persists up to 1981 and is robust to a series of alternative specifications and controls. This mechanism implies that values regarding gender roles persist and are transmittable through generations. More generally, political conflicts open opportunities for social and political change that lead to the empowerment of minority and subordinate groups (Justino, 2017). The paper shows that women's labor market outcomes are subject to changes when conservative institutions are relaxed, and in this case, these changes persisted for at least the next three decades.

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Figures

Figure 1: Female Labor Force Participation (\%), 1920-2019


Notes. This figure shows the evolution of the average Female Labor Force Participation rate in Greece over a century. Female Labor Force Participation is considered here the number of women of all ages actively participating in the labor markets. A person is actively participating in the labor market when (s)he is fully employed, partly employed or unemployed actively seeking for a job. The dashed red vertical lines indicate the years of the Civil War, 1946-1949. Source: 1920-1981 (ELSTAT, 2019), 1991-2019 International Labour Organization, ILOSTAT database, The World Bank Data.

Figure 2: Political Polarization (\%), 1926-1974


Notes. This figure shows fitted values of the share of political votes in parliamentary elections for the years 1926, 1928, 1932, 1946, 1950, 1951, 1952, 1956, 1958, 1963, 1964 and 1974. I categorized the parties into Conservative, Center and Left. I based the categories on websites and histories of each of the parties. The dashed red vertical lines indicate the years of the Civil War, 1946-1949. Source: Register of Senators and MPs 1929-1974 Greek Parliament, National Printing Office, 1977

Figure 3: Political Opposition and Changes in Female Labor Force Participation

(b) Panel B

Notes: Panel A: Each dot represents one of 139 provinces. The vertical axis is the changes in female labor force participation rates in percentage points between 1928 and 1951, before the civil war. Panel B: Each dot represents one of 139 provinces. The vertical axis is the changes in female labor force participation rates in percentage points between 1951 and 1961, after the civil war.

Figure 4: Female Labor Force Participation (\%), 1920-1981


Notes: This graph shows female labor force participation (FLFP) rates in percent over the period of the analysis 1920-1981. The graph illustrates average FLFP in Greece. The vertical dashed red lines indicate the years of the civil war (1946-1949).

Figure 5: Female and Male Labor Force Participation (\%), 1920-1981


Notes: This graph shows male labor force participation (MLFP) rates and female labor force participation (FLFP) rates in percent over the period of the analysis 1920-1981. The graph illustrates average values of both FLFP and MLFP in Greece.

Figure 6: Political Opposition Across Provinces (\%)


Notes: This figure maps the share of political opposition across 139 provinces, as counted in the referendum of 1946. The political opposition is measured as the share of votes against the return of the King in the size of the electorate of the province, excluding invalid votes and non-participants. Missing data are for one department that belonged to Italy in 1946 and the province of Mount Athos that did not participate in the referendum.

Figure 7: Political Opposition, Groups


Notes: This figure maps the share of political opposition across 139 provinces, as counted in the referendum of 1946, divided into three groups; low, medium and high. The "low" group includes provinces with share of opposition up to the first quartile; the "medium" group consists of provinces with share of opposition between the first and third quartile; and in the "high" group, provinces with share of opposition greater than the third quartile are included.

## Figure 8: Relative Trends in Female Labor Force Participation, 1920-1981



Notes: Each line corresponds to a group of provinces with a defined level of political opposition (low, medium, or high). The "low" group includes provinces with share of opposition up to the first quartile; the "medium" group consists of provinces with share of opposition between the first and third quartile; and in the "high" group, provinces with share of opposition greater than the third quartile are included. Female labor force participation (FLFP) is normalized to 100 in 1951. The vertical red lines indicate the years of the civil war (1946-1949).

Figure 9: Female Labor Force Participation Rates on Political Opposition, 1961


Notes: Panel A: Figure of FLFP rates in 1961 as percentage to to the political opposition, measured as share of votes against the return of the King reported in the referendum of 1946. Each dot represents a province. Standard errors are robust and clustered in 139 provinces. Panel B: Same figure but conditional on pre-war share of votes of communist party in the election of 1932 and geographical location as coordinates.

Figure 10: Year-specific Difference-in-Differences Effects on FLFP


Notes: This figure shows the year-specific difference-in-differences effects of Political Opposition on female labor force participation (FLFP), as estimated in equation (2). The reference year is 1951 and therefore excluded in the analysis, due to being the closest to the shock. Each dot represents the effect on FLFP when an increase of $10 \%$ in political opposition occurs. The vertical red lines indicate the years of the civil war (1946-1949).

Figure 11: Relative Trends in Conservatism


Notes: This figure shows the relative trends of the number of churches per 1000 people for each year available in the building census (1991). Each line represents a group of political opposition, measured as the share of votes against the return of the King; low, medium and high. The "low" group includes provinces with share of opposition up to the first quartile; the "medium" group consists of provinces with share of opposition between the first and third quartile; and in the "high" group, provinces with share of opposition greater than the third quartile are included. Conservatism is measure as the share cumulative number of churches in 1000 population and is normalized to 100 in 1945.The vertical red lines indicate the years of the civil war (1946-1949).

Figure 12: Correlation between historical and modern political views


Notes: This figure shows the positive and statistically significant correlation between historical and modern political views. Historical negative votes are measured as the share of votes against the return of the King in the size of the electorate of the province, excluding invalid votes and non-participants (Referendum in 1946). Modern political views are measured as the left-wing share of votes as reported in European Value Survey (1999). Both measures are in percent and aggregated into department-level. Each dot represents a department.

## Tables

Table 1: Political Opposition and Pre-War Characteristics

| Dependent variable: | Political Opposition |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ |
| FLFP | $-0.83 * * *$ |  |  | -0.28 | -0.18 |
|  | $(0.25)$ |  |  | $(0.19)$ | $(0.16)$ |
| Communist share (1932) |  | $0.82 * *$ | $1.14 * * *$ | $1.34 * * *$ | $1.00 * * *$ |
|  |  | $(0.23)$ | $(0.19)$ | $(0.18)$ | $(0.19)$ |
| Center share (1932) |  |  | $0.52 * * *$ | $0.38 * * *$ | $0.18 * *$ |
|  |  |  | $(0.10)$ | $(0.08)$ | $(0.07)$ |
| Province Coordinates | No | Yes | Yes | Yes | Yes |
| Other characteristics | No | No | No | Yes | Yes |
| Department FE | No | No | No | No | Yes |
|  |  |  |  |  |  |
| Provinces | 139 | 139 | 139 | 139 | 139 |
| Adj. $R^{2}$ | 0.063 | 0.312 | 0.435 | 0.667 | 0.877 |

[^6]Table 2: Baseline Difference-in-Differences Estimates, Equation 1

| Dependent variable: | Female Labor Force Participation |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ |
| PoliticalOpposition x post1949 | $0.140 * * *$ | $0.140 * * *$ | $0.141 * * *$ | $0.137 * * *$ | $0.150 * * *$ |
|  | $(0.031)$ | $(0.031)$ | $(0.031)$ | $(0.032)$ | $(0.042)$ |
| Year FEs |  |  |  |  |  |
| Province FEs | Yes | Yes | Yes | Yes | Yes |
| Controls | Yes | Yes | Yes | Yes | Yes |
| Extra Controls | No | Yes | No | Yes | Yes |
| Department FEs | No | No | Yes | Yes | Yes |
| Department x Year | No | No | No | Yes | Yes |
|  | No | No | No | No | Yes |
| Provinces |  |  |  |  |  |
| Departments | 139 | 139 | 139 | 139 | 139 |
| Observations | 35 | 35 | 35 | 35 | 35 |
| Adj. $R^{2}$ | 832 | 832 | 832 | 832 | 832 |

Notes. This table reports OLS estimates. The dependent variable is Female Labor Force Participation rates. Controls include communist vote shares and province coordinates. Extra Controls include urbanization as a binary variable and sex ratio.
Robust standard errors in parentheses clustered in 139 provinces. * $\mathrm{p}<0.1$, ${ }^{* *} \mathrm{p}<0.05$, ${ }^{* * *} \mathrm{p}<0.01$

Table 3: Year-specific Difference-in-Differences Estimates, Equation 2

| Dependent variable: |  | Female Labor Force Participation |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ |
| PoliticalOpposition x 1920 | 0.019 | 0.019 | 0.013 | 0.016 | -0.002 |
|  | $(0.018)$ | $(0.018)$ | $(0.019)$ | $(0.021)$ | $(0.031)$ |
| PoliticalOpposition x 1928 | -0.036 | -0.036 | -0.036 | -0.034 | 0.003 |
|  | $(0.027)$ | $(0.027)$ | $(0.027)$ | $(0.028)$ | $(0.049)$ |
| PoliticalOpposition x 1961 | $0.192 * * *$ | $0.192 * * *$ | $0.191 * * *$ | $0.188^{* * *}$ | $0.247 * * *$ |
|  | $(0.051)$ | $(0.051)$ | $(0.051)$ | $(0.051)$ | $(0.065)$ |
| PoliticalOpposition x 1971 | $0.179 * * *$ | $0.179 * * *$ | $0.176 * * *$ | $0.176 * * *$ | $0.212 * * *$ |
|  | $(0.043)$ | $(0.043)$ | $(0.043)$ | $(0.043)$ | $(0.056)$ |
| PoliticalOpposition x 1981 | $0.152 * * *$ | $0.152 * * *$ | $0.150 * * *$ | $0.146 * * *$ | $0.142 * *$ |
|  | $(0.049)$ | $(0.049)$ | $(0.050)$ | $(0.050)$ | $(0.066)$ |
|  |  |  |  |  |  |
| Year FEs | Yes | Yes | Yes | Yes | Yes |
| Province FEs | Yes | Yes | Yes | Yes | Yes |
| Controls | No | Yes | No | Yes | Yes |
| Extra Controls | No | No | Yes | Yes | Yes |
| Department FEs | No | No | No | Yes | Yes |
| Department x Year | No | No | No | No | Yes |
|  |  |  |  |  |  |
| Provinces | 139 | 139 | 139 | 139 | 139 |
| Departments | 35 | 35 | 35 | 35 | 35 |
| Observations | 832 | 832 | 832 | 832 | 832 |
| Adj. $R^{2}$ | 0.677 | 0.677 | 0.679 | 0.683 | 0.684 |

[^7]Table 4: Baseline Difference-in-Differences Estimates of MLFP

| Dependent variable: | Male Labor Force Participation |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ |
| PoliticalOpposition x post1949 | 0.006 | 0.006 | 0.008 | 0.006 | 0.000 |
|  | $(0.019)$ | $(0.019)$ | $(0.019)$ | $(0.021)$ | $(0.024)$ |
| Year FEs |  |  |  |  |  |
| Province FEs | Yes | Yes | Yes | Yes | Yes |
| Controls | Yes | Yes | Yes | Yes | Yes |
| Extra Controls | No | Yes | No | Yes | Yes |
| Department FEs | No | No | Yes | Yes | Yes |
| Department x Year | No | No | No | Yes | Yes |
|  | No | No | No | No | Yes |
| Provinces |  |  |  |  |  |
| Departments | 139 | 139 | 139 | 139 | 139 |
| Observations | 35 | 35 | 35 | 35 | 35 |
| Adj. $R^{2}$ | 832 | 832 | 832 | 832 | 832 |

Notes. This table reports OLS estimates (Equation 1). The dependent variable is Male Labor Force Participation (MLFP) rates. Controls include communist vote shares and province coordinates. Extra Controls include urbanization as a binary variable and sex ratio.
Robust standard errors in parentheses clustered in 139 provinces. * $\mathrm{p}<0.1$, ** $\mathrm{p}<0.05$, *** $\mathrm{p}<0.01$

Table 5: Year-specific Difference-in-Differences Estimates of MLFP

| Dependent variable: | Male Labor Force Participation |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ |
| PoliticalOpposition x 1920 | $-0.036 * *$ | $-0.036 * *$ | $-0.041 * *$ | $-0.040 * *$ | -0.014 |
|  | $(0.017)$ | $(0.017)$ | $(0.017)$ | $(0.018)$ | $(0.028)$ |
| PoliticalOpposition x 1928 | -0.020 | -0.020 | -0.020 | -0.020 | -0.002 |
|  | $(0.017)$ | $(0.017)$ | $(0.017)$ | $(0.017)$ | $(0.027)$ |
| PoliticalOpposition x 1961 | -0.013 | -0.013 | -0.013 | -0.014 | -0.019 |
|  | $(0.029)$ | $(0.029)$ | $(0.029)$ | $(0.029)$ | $(0.030)$ |
| PoliticalOpposition x 1971 | -0.047 | -0.047 | -0.049 | -0.049 | -0.033 |
|  | $(0.031)$ | $(0.031)$ | $(0.031)$ | $(0.032)$ | $(0.033)$ |
| PoliticalOpposition x 1981 | -0.029 | -0.029 | -0.030 | -0.031 | 0.023 |
|  | $(0.030)$ | $(0.030)$ | $(0.029)$ | $(0.029)$ | $(0.051)$ |
|  |  |  |  |  |  |
| Year FEs | Yes | Yes | Yes | Yes | Yes |
| Province FEs | Yes | Yes | Yes | Yes | Yes |
| Controls | No | Yes | No | Yes | Yes |
| Extra Controls | No | No | Yes | Yes | Yes |
| Department FEs | No | No | No | Yes | Yes |
| Department x Year | No | No | No | No | Yes |
|  |  |  |  |  |  |
| Provinces | 139 | 139 | 139 | 139 | 139 |
| Departments | 35 | 35 | 35 | 35 | 35 |
| Observations | 832 | 832 | 832 | 832 | 832 |
| Adj. $R^{2}$ | 0.746 | 0.745 | 0.747 | 0.746 | 0.747 |

Notes. This table reports OLS estimates (Equation 2). The dependent variable is Male Labor Force Participation rates. Controls include communist vote shares and province coordinates. Extra Controls include urbanization as a binary variable and sex ratio.
Robust standard errors in parentheses clustered in 139 provinces. * $\mathrm{p}<0.1$, ** $\mathrm{p}<0.05$, *** $\mathrm{p}<0.01$

Table 6: Baseline Difference-in-Differences Estimates, Equation 3

| Dependent variable: | Female Labor Force Participation |  |  |  |
| :--- | :---: | :---: | :---: | :---: |
|  | $(1)$ | $(2)$ | $(3)$ | $(4)$ |
| PoliticalOpposition x post1949 | $0.139 * * *$ | $0.139 * * *$ | $0.144^{* * *}$ | $0.137 * * *$ |
|  | $(0.036)$ | $(0.036)$ | $(0.036)$ | $(0.038)$ |
|  |  |  |  |  |
| Year FEs | Yes | Yes | Yes | Yes |
| Province FEs | Yes | Yes | Yes | Yes |
| Province Time Trends | Yes | Yes | Yes | Yes |
| Controls | No | Yes | No | Yes |
| Extra Controls | No | No | Yes | Yes |
| Department FEs | No | No | No | Yes |
|  |  |  |  |  |
| Provinces | 139 | 139 | 139 | 139 |
| Departments | 35 | 35 | 35 | 35 |
| Observations | 832 | 832 | 832 | 832 |
| Adj. $R^{2}$ | 0.680 | 0.680 | 0.682 | 0.687 |

Notes. This table reports OLS estimates. The dependent variable is Female Labor Force Participation rates. All specifications include province-specific linear time trends. Controls include communist vote shares and province coordinates. Extra Controls include urbanization as a binary variable and sex ratio.
Robust standard errors in parentheses clustered in 139 provinces. * $\mathrm{p}<0.1$, ** $\mathrm{p}<0.05$, *** p<0.01

Table 7: Difference-in-Differences Estimates, Political Opposition Groups, Equation 4

| Dependent variable: | Female Labor Force Participation |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ |
| Medium Group x post1949 | -0.059 | -0.059 | -0.102 | -0.398 | -1.075 |
|  | $(1.148)$ | $(1.148)$ | $(1.189)$ | $(1.200)$ | $(1.460)$ |
| High Group x post1949 | $6.351^{* * *}$ | $6.351^{* * *}$ | $6.303^{* * *}$ | $5.844^{* * *}$ | $4.255^{*}$ |
|  | $(1.930)$ | $(1.930)$ | $(1.910)$ | $(1.945)$ | $(2.455)$ |
|  |  |  |  |  |  |
| Year FEs | Yes | Yes | Yes | Yes | Yes |
| Province FEs | Yes | Yes | Yes | Yes | Yes |
| Controls | No | Yes | No | Yes | Yes |
| Extra Controls | No | No | Yes | Yes | Yes |
| Department FEs | No | No | No | Yes | Yes |
| Department x Year | No | No | No | No | Yes |
|  |  |  |  |  |  |
| Provinces | 139 | 139 | 139 | 139 | 139 |
| Departments | 35 | 35 | 35 | 35 | 35 |
| Observations | 832 | 832 | 832 | 832 | 832 |
| Adj. $R^{2}$ | 0.657 | 0.657 | 0.659 | 0.665 | 0.669 |

Notes. This table reports OLS estimates. The dependent variable is Female Labor Force Participation rates. Political opposition is divided into three groups; The "low" group includes provinces with share of opposition up to the first quartile; the "medium" group consists of provinces with share of opposition between the first and third quartile; and in the "high" group, provinces with share of opposition greater than the third quartile are included. The "low" group here is used as the reference group. Controls include communist vote shares and province coordinates. Extra Controls include urbanization as a binary variable and sex ratio.
Robust standard errors in parentheses clustered in 139 provinces. * $\mathrm{p}<0.1$, ${ }^{* *} \mathrm{p}<0.05$, ${ }^{* * *} \mathrm{p}<0.01$

Table 8: Difference-in-Differences Estimates on Economic Sectors, Equation 5

| Dependent variable: | Agriculture | Mines | Industry | Commerce | Transport | Services | Other | No Agriculture |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ | $(8)$ |
|  | 0.055 | -0.004 | 0.002 | -0.001 | -0.002 | $0.008^{*}$ | -0.011 | -0.041 |
| PoliticalOpposition x post1949 | $(0.033)$ | $(0.003)$ | $(0.008)$ | $(0.003)$ | $(0.003)$ | $(0.004)$ | $(0.011)$ | $(0.040)$ |
| Year FEs | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Department FEs | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
|  |  |  |  |  |  |  |  |  |
| Departments | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| Observations | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 |
| Adj. $R^{2}$ | 0.603 | 0.148 | 0.384 | 0.710 | 0.481 | 0.884 | 0.856 | 0.967 |

D Notes. This table reports OLS estimates. The dependent variable is total Labor Force Participation rates in different economic sectors, indicated in the title of each column. Due to unavailability of data in the province-level, all values are in the department-level.
Robust standard errors in parentheses clustered in 35 departments. * $p<0.1$, ** $p<0.05,{ }^{* * *} p<0.01$

Table 9: Years explained, Number of Churches

| Year in dataset | Years included |
| :--- | :---: |
| 1919 | up to 1919 |
| 1945 | $1919-1945$ |
| 1960 | $1946-1960$ |
| 1970 | $1961-1970$ |
| 1980 | $1971-1980$ |
| 1985 | $1981-1985$ |

Notes. This table explains how the number of churches are reported in the Building Census (1991). The year in the dataset (Column 1) represents the number of churches of Column 2. For example, in year 1919 the number of churches in the province includes all the churches and monasteries built in the province up to the year 1919.

Table 10: The Conservatism Channel

| Dependent variable: | Number of Churches per 1000 population |  |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ |
| Against King x post1949 | $-0.041^{* * *}$ | $-0.039^{* *}$ | $-0.037 * *$ | $-0.037 * *$ | $-0.037 * *$ | $-0.041 * *$ |
|  | $(0.018)$ | $(0.018)$ | $(0.017)$ | $(0.017)$ | $(0.016)$ | $(0.018)$ |
| Year FEs | Yes | Yes | Yes | Yes | Yes | Yes |
| Province FEs | Yes | Yes | Yes | Yes | Yes | Yes |
| Urban | No | Yes | Yes | Yes | Yes | No |
| Department FEs | No | No | No | No | No | No |
| Year x Department FEs | No | No | No | No | No | No |
| Sex Ratio | No | No | Yes | No | Yes | No |
| Sex Ratio x Year | No | No | No | Yes | Yes | No |
| WWII Occupation | No | No | No | No | No | Yes |
| Observations | 832 | 832 | 832 | 832 | 832 | 832 |

Notes. This table reports OLS estimates. The dependent variable is the share of number of churches in 1000 population. The years are different and explained in table 9. Urbanization and sex ratio are considered for the years 1920, 1928, 1951, 1961, 1971 and 1981.
Robust standard errors in parentheses clustered in 139 provinces. * $\mathrm{p}<0.1,{ }^{* *} \mathrm{p}<0.05, * * * \mathrm{p}<0.01$
Table 11: The Conservatism Channel, Flexible

| Dependent variable: | Number of Churches per 1000 population |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PoliticalOpposition x 1919 | (1) | (2) | (3) | (4) | (5) | (6) |
|  | -0.01 | -0.01 | -0.00 | -0.00 | 0.00 | -0.00 |
|  | (0.01) | (0.01) | (0.01) | (0.01) | (0.01) | (0.01) |
| PoliticalOpposition x 1960 | -0.033*** | -0.032*** | -0.027** | -0.027** | -0.023** | -0.033*** |
|  | (0.011) | (0.011) | (0.012) | (0.012) | (0.011) | (0.012) |
| PoliticalOpposition x 1970 | -0.047*** | -0.045*** | -0.040** | -0.040** | -0.038** | -0.047*** |
|  | (0.017) | (0.016) | (0.017) | (0.017) | (0.016) | (0.017) |
| PoliticalOpposition x 1980 | -0.047** | -0.045** | -0.042** | -0.042** | -0.0373** | -0.047** |
|  | (0.021) | (0.020) | (0.020) | (0.020) | (0.019) | (0.020) |
| PoliticalOpposition x 1985 | -0.056* | -0.051* | -0.047 | -0.047 | -0.045 | -0.056* |
|  | (0.030) | (0.029) | (0.029) | (0.029) | (0.028) | (0.030) |
| Year FEs | Yes | Yes | Yes | Yes | Yes | Yes |
| Province FEs | Yes | Yes | Yes | Yes | Yes | Yes |
| Urban | No | Yes | Yes | Yes | Yes | No |
| Department FEs | No | No | No | No | No | No |
| Year x Department FEs | No | No | No | No | No | No |
| Sex Ratio | No | No | Yes | No | Yes | No |
| Sex Ratio x Year | No | No | No | Yes | Yes | No |
| WWII Occupation | No | No | No | No | No | Yes |
| Observations | 832 | 832 | 832 | 832 | 832 | 832 |

Notes. This table reports OLS estimates. The dependent variable is the share of number of churches in 1000 population. The years are different and explained in table 9. Urbanization and sex ratio are considered for the years 1920, 1928, 1951, 1961, 1971 and 1981.
Robust standard errors in parentheses clustered in 139 provinces. * $\mathrm{p}<0.1$, ** $\mathrm{p}<0.05,{ }^{* * *} \mathrm{p}<0.01$

Table 12: Correlation political views and gender norms, 1999

| Questions regarding gender norms | Left vote | Standard Errors | Observations |
| :--- | :---: | :---: | :---: |
| Q1: Need children for fulfilment | 0.0478 | $(0.133)$ | 489 |
| Q2: Woman single parent | $0.550 * * *$ | $(0.140)$ | 406 |
| Q3: Relationship with children when working | 0.197 | $(0.124)$ | 522 |
| Q4: Child suffers with working mother | $0.362 * * *$ | $(0.135)$ | 519 |
| Q5: Women want home and children | $0.286 * *$ | $(0.125)$ | 509 |
| Q6: Housewife as fulfilling as paid job | $0.211 *$ | $(0.117)$ | 510 |
| Q7: Job makes women independent | $0.272 * *$ | $(0.133)$ | 517 |
| Q8: Husband and wife equality in household | $0.232 *$ | $(0.139)$ | 519 |
| $* \mathrm{p}<0.1, * * \mathrm{p}<0.05, * * * \mathrm{p}<0.01$ |  |  |  |

## Appendix A: Data Source

The main source of the data is the Population Censuses in Greece conducted by the Hellenic Statistical Authority on behalf of the Greek state (ELSTAT, 2019). The censuses cover the entire country and are carried out approximately every first year of every decade. The censuses includes the population in Greece at the time of the census and demographic characteristics of the population. The information is given both aggregated for the entire Greek peninsula, but also in sub-divisions, a more detailed level.

Although the Greek Independence from the Ottoman Empire was in 1821, the Greek state expanded in 1881 and then again in 1912, forming the Greek Independent state as we know it today ${ }^{11}$. Due to the annexations, several reforms regarding the administrative division of the country took place. The censuses used and linked in this paper are for the years 1920, 1928, 1951, 1961, 1971 and 1981. In 1940, a collection of data was planned to take place, but got interrupted by the war. The available information was destroyed during World War II and only the population records were saved from this year. Among these censuses, the administrative units have changed, either merged or separated, but not substantially. For consistency reasons, I am using the administrative division as formed in 1920.

In 1920-1961, Greece has 9 regions (in Greek Periphereies) that are persistent throughout all the years of this paper's scope. The polymorphic geography of the country, with the long coastline and mountainous areas, is the main geographical characteristic that creates regional disparities. The next and main administrative unit is the prefectures, or in Greek Nomoi (in singular Nomós). Prefectures are equivalent to the French Dèpartements and there are several in one region. The unit of my analysis in the Province, or in Greek Eparchia. A prefecture usually is divided into several provinces, but in some cases there is only one province in a prefecture that has the same name. This goes back to the geographical features that frequently determine the level of aggregation in the administration units.

Table 13 shows the final regions, departments and provinces, after linking the six censuses. In this paper, there are 9 regions that contain 35 departments in total and 139 provinces. Each province is further divided into municipalities and cities, but since I am interested in labor force participation rates, the availability of my main variable is on the province level. Therefore, this level of aggregation is sufficient for the scope of the paper. Understanding the administrative units is important, since the data that I am using include voting. The size of the region could potentially play a role for the overall result regarding the political character of the geographical location.
Table 14 reports the summary statistics of the main variables of the historical censuses used in the paper. There are a few points to be made about some of the variables. There are some extreme values in the final database that are kept for a number of reasons. There are extreme values in the lower of the Labor Force Participation, the male, female and the total. These extreme values are reported in remote areas (mainly small islands), where most of the population is employed in seasonal work, such as tourism, and there are high shares of unreported employment. The low and high extreme values of sex ratio are also reported

[^8]in remote areas, where people tend to live temporarily and therefore some do not report themselves in those areas, while some do.

| Region | Number of Departments | Number of Provinces |
| :--- | :---: | :---: |
| Central Greece and Evia | 4 | 21 |
| Crete | 4 | 20 |
| Aegean islands | 4 | 14 |
| Epirus | 3 | 10 |
| Ionian islands | 3 | 7 |
| Macedonia | 8 | 26 |
| Peloponnese | 5 | 23 |
| Thessaly | 2 | 10 |
| Thrace | 2 | 8 |
| Total | 35 | 139 |

Table 13: Number of Departments and Provinces per Region

|  | Mean | Sd | Min | P25 | Median | P75 | Max |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Population | 54109.6 | 175198.9 | 2060 | 16461.5 | 29945.5 | 53208.5 | 3265114 |
| Male population | 26411.03 | 84605.94 | 990 | 8049.5 | 14637 | 25735.5 | 1574282 |
| Female population | 27692.56 | 90629.41 | 1070 | 8524.5 | 15396 | 26943.5 | 1690832 |
| Sex ratio | 95.01222 | 9.584249 | 62.11 | 90.26 | 94.9 | 99.51 | 224.99 |
| Labor Force | 26058.29 | 68734.76 | 300 | 7739.5 | 15370.5 | 26684.5 | 1141805 |
| Male labor force | 16506.63 | 47884.73 | 155 | 5079 | 9481 | 16326.5 | 813751 |
| Female labor force | 5586.575 | 16827.06 | 29 | 1082 | 2833.5 | 5795.5 | 328054 |
| LFP rate | 51.7868 | 18.84148 | .85 | 35.86 | 44.305 | 75.39 | 84.14 |
| MLFP rate | 64.06237 | 9.882404 | .92 | 56.82 | 62.51 | 73.855 | 84.91 |
| FLFP rate | 20.18374 | 12.25269 | .79 | 10.86 | 17.155 | 27.695 | 64.96 |
| Against King | 30.16413 | 22.56892 | .04 | 11.32 | 27.5 | 45.4 | 83.99 |
| Urban | .2680288 | .4431991 | 0 | 0 | 0 | 1 | 1 |
| WWII Occupation zone | 2.138221 | .9469087 | 1 | 1 | 3 | 3 | 3 |
| Provinces | 139 |  |  |  |  |  |  |
| Observations | 832 |  |  |  |  |  |  |

Table 14: Summary Statistics

## Appendix B: Greek Annexations

After the War of Independence from the Ottoman Empire, a Greek Kingdom was created in 1832 consisting of three regions; Central Greece (including the greater area of Athens) and Eubee, Peloponesse and the west Aegean Islands. In 1863, ceded by the United Kingdom, the Ionian Islands were annexed as a fourth region, while in 1881 the region of Thessaly was added to the Kingdom after the Conference of Constantinople. After the Balkan wars in 1914, the regions of Epirus, Macedonia, Crete and the east Aegean islands were incorporated. Finally, with the Treaty of Lausanne, and a massive population exchange between Turkey and Greece, the region of Thrace was the last territory to join Greece, and this is the geographical extent of the country used for the purposes of this paper ${ }^{12}$.

## Appendix C: European Value Survey (1999)

[^9]

Table 15 continued from previous page

|  | Other |  | Conservative |  | Communists/Left wing |  | Total |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | No. | \% | No. | \% | No. | \% | No. | \% |
| disagree | 116 | 19.1 | 73 | 20.6 | 31 | 20.7 | 220 | 19.8 |
| strongly disagree | 11 | 1.8 | 8 | 2.3 | 4 | 2.7 | 23 | 2.1 |
| Total | 607 | 100.0 | 355 | 100.0 | 150 | 100.0 | 1112 | 100.0 |
| Women really want home and children strongly agree | 98 | 16.9 | 80 | 22.9 | 27 | 18.5 | 205 | 19.1 |
| agree | 268 | 46.2 | 156 | 44.7 | 67 | 45.9 | 491 | 45.7 |
| disagree | 188 | 32.4 | 97 | 27.8 | 43 | 29.5 | 328 | 30.5 |
| strongly disagree | 26 | 4.5 | 16 | 4.6 | 9 | 6.2 | 51 | 4.7 |
| Total | 580 | 100.0 | 349 | 100.0 | 146 | 100.0 | 1075 | 100.0 |
| Being housewife as fulfilling as paid job strongly agree | 57 | 9.8 | 55 | 15.8 | 17 | 11.6 | 129 | 12.0 |
| agree | 162 | 27.9 | 109 | 31.2 | 49 | 33.3 | 320 | 29.7 |
| disagree | 294 | 50.6 | 152 | 43.6 | 65 | 44.2 | 511 | 47.4 |
| strongly disagree | 68 | 11.7 | 33 | 9.5 | 16 | 10.9 | 117 | 10.9 |
| Total | 581 | 100.0 | 349 | 100.0 | 147 | 100.0 | 1077 | 100.0 |
| Job best way for women to be independent strongly agree | 232 | 38.6 | 130 | 36.8 | 56 | 37.3 | 418 | 37.9 |
| agree | 265 | 44.1 | 152 | 43.1 | 76 | 50.7 | 493 | 44.7 |
| disagree | 95 | 15.8 | 60 | 17.0 | 17 | 11.3 | 172 | 15.6 |
| strongly disagree | 9 | 1.5 | 11 | 3.1 | 1 | 0.7 | 21 | 1.9 |
| Total | 601 | 100.0 | 353 | 100.0 | 150 | 100.0 | 1104 | 100.0 |
| Husband and wife contribute to household income strongly agree | 269 | 43.9 | 153 | 43.1 | 63 | 42.0 | 485 | 43.4 |
| agree | 280 | 45.7 | 152 | 42.8 | 62 | 41.3 | 494 | 44.2 |
| disagree | 62 | 10.1 | 44 | 12.4 | 22 | 14.7 | 128 | 11.4 |

Table 15 continued from previous page


Table 15: EVS Questions on Gender norms, 1999

## Appendix D: Testing Other Mechanisms

D.1. The Marriage Market

The marriage market has been investigated in the literature as a channel due to the scarcity of men (Boehnke and Gay, 2020; Angrist, 2002). Male fatalities and military drafts due to the war means that both the supply and the demand for labor create the conditions for women to enter the labor market to substitute their male counterparts. Due to the shortage of men, women have less opportunities to get married and decide to participate in the labor markets. In the Greek case, the sex ratios show that there are no substantial differences in the fatalities among men and women. Women participated in the war and the losses are distributed among men and women. Nevertheless, there are still losses and displacements of men and for this reason, I investigate if the results could be explained through the channel of the marriage market.

Figure 13 shows that, if anything, the share of single women decreased after the war years, while the share of married women increased. In any case, internal displacements might have affected the decision of women to get married and it is a channel that is worth investigating. The average share of single and married women is similar, approximately $40 \%$, while there is an $11 \%$ share of women that is divorced or widowed.


Figure 13: Share of women based on marital status

To understand if the marriage market is the channel that can explain the impact of the civil war on the female labor force participation, I estimate the following:

$$
\begin{equation*}
\text { MaritalShare }_{m, d, t}=\beta \text { PoliticalOpposition }_{d} \times \text { post1949 }_{t}+\gamma_{d}+\delta_{t}+\epsilon_{m, d, t}, \tag{7}
\end{equation*}
$$

where MaritalShare ${ }_{m, d, t}$ denotes the share of women of marital status $m$ in department $d$ and year $t$ of the census data and is calculated as a percentage of the female population in the department. PoliticalOpposition ${ }_{d}$ is the share of votes against the return of the King in the Referendum of 1946 in department d. Department fixed effects and year fixed effects are included. Table 16 shows that the effects of the civil war on the share of married, single and widowed/divorced women is close to zero and not statistically significant.

| Dependent variable: | Single Women | Married Women | Widowed/Divorced Women |
| :--- | :---: | :---: | :---: |
|  | $(1)$ | $(2)$ | $(3)$ |
| Against King x post1949 | -0.00 | 0.00 | 0.00 |
|  | $(0.00)$ | $(0.00)$ | $(0.00)$ |
| Year FEs | Yes | Yes | Yes |
| Department FEs | Yes | Yes | Yes |
|  |  |  |  |
| Departments | 35 | 35 | 35 |
| Observations | 688 | 688 | 688 |
| Standard errors in parentheses |  |  |  |
| $* \mathrm{p}<0.1,{ }^{* *} \mathrm{p}<0.05,{ }^{* * *} \mathrm{p}<0.01$ |  |  |  |

Table 16: Marital Status estimates, Equation 7

## D.2. Structure of Female Labor Markets

The increase of the female labor force participation due to the Civil War might also be explained by the structural change of the labor markets across the provinces. Using data on a number of different economic activities reported among departments ${ }^{13}$, I test the hypothesis of structural change in the labor markets. The Civil War affected the entire country during all three years of the war, but since it was more intense in mountainous areas or areas closer to mountains, local factors such as the structure of local labor markets, might affect the finding of the reported increase in areas with higher concentration of left-wing ideologies. At the same time, urbanization increased, as the pressure in the villages due to the war was increasing since both the partisans and the Greek Army needed food supplies to fight the war and therefore a good share of the rural populations was forced to abandon their hometowns in order to survive. The structural change hypothesis is therefore as follows: More polarized areas experience an increase in female labor force participation due to the structural composition of the local labor markets. Table 17 shows the share of women working in different sectors as a share of female population. The majority of the female population was employed in agriculture and a smaller share in industries and services.

[^10]|  | Mean | Sd | Min | P25 | Median | P75 | Max |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Agriculture | 13.82 | 14.47 | .06 | 2.80 | 8.71 | 21.25 | 94.99 |
| Mines | .031 | .16 | 0 | 0 | 0 | 0 | 2.49 |
| Industry | 1.88 | 1.69 | .04 | .94 | 1.46 | 2.24 | 17.21 |
| Commerce | .36 | .52 | 0 | .07 | .16 | .43 | 4.97 |
| Transport | .05 | .09 | 0 | 0 | .02 | .06 | 1.48 |
| Services | 1.22 | 1.06 | 0 | .53 | .92 | 1.61 | 8.56 |
| Other | 2.21 | 2.57 | .01 | .22 | .70 | 4.16 | 11.70 |
| Departments | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| Observations | 688 | 688 | 688 | 688 | 688 | 688 | 688 |

Table 17: FLFP in Economic Activities, Department Level

To investigate whether the rise of the female labor force participation caused by the civil war can be explained by the economic activities that the women chose or had the chance to be employed in based on their location, I estimate the following:

$$
\begin{equation*}
\text { Sector }_{s, d, t}=\beta \text { PoliticalOpposition }_{d} \times \text { post1949 }_{t}+\gamma_{d}+\delta_{t}+\epsilon_{s, d, t}, \tag{8}
\end{equation*}
$$

where Sector $_{s, d, t}$ denotes the share of women employed in the sector s in department d and year $t$ of the census data and is calculated as a percentage of the female population in the department. PoliticalOpposition ${ }_{d}$ is the share of votes against the return of the King in the Referendum of 1946 in department d. Department fixed effects and year fixed effects are included. Table 18 shows that the effects of the civil war on the share of women working within agriculture and industry are statistically significant, but are very close to zero. Year-specific estimates reveal that there are pre-trends that affect the results. This means that the economic sector that the women were employed cannot explain the impact of the civil war on the rise of the female labor force participation, as there were not major changes in the structure of the labor markets in the areas that politically opposed after the war.

| Dependent variable: | Agriculture | Mines | Industry | Commerce | Transport | Services | Other |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $(1)$ | $(2)$ | $(3)$ | $(4)$ | $(5)$ | $(6)$ | $(7)$ |
| AgainstKing x post1949 | $0.086 * *$ | -0.00 | $0.01^{* * *}$ | 0.00 | -0.00 | -0.00 | 0.00 |
|  | $(0.0410)$ | $(0.000509)$ | $(0.00349)$ | $(0.00161)$ | $(0.000214)$ | $(0.00221)$ | $(0.00560)$ |
| Year FEs | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| Department FEs | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
|  |  |  |  |  |  |  |  |
| Departments | 35 | 35 | 35 | 35 | 35 | 35 | 35 |
| Observations | 691 | 691 | 691 | 691 | 691 | 691 | 691 |

[^11]Table 18: Economic Activities, Equation 8


[^0]:    *I would like to thank professor Paul Richard Sharp for his ongoing support throughout my PhD studies. I am grateful to professor Price V. Fishback, who hosted me for 5 months at the University of Arizona, for his help and his support. I am thankful to professor Johanna Rickne for extensive feedback and comments, to Barbara Boggiano for great discussions, feedback and inspiration, to professor Karol J. Borowiecki and my fellow PhD students at the department of Business and Economics for comments and feedback on this paper. I would also like to thank Philipp Ager, Peter Sandholt Jensen, Eoin McLaughlin, Battista Severgnini and participants at Scandinavian PhD seminar, Stockholm University brownbag seminar and LSE Economic History graduate seminar for their valuable feedback.
    ${ }^{\dagger}$ Department of Business and Economics, University of Southern Denmark, Odense, Denmark. Email: xanthi@sam.sdu.dk. Website: sites.google.com/view/xanthi-tsoukli

[^1]:    ${ }^{1}$ The census years are 1920, 1928, 1951, 1961, 1971 and 1981. The censuses are divided into several volumes dedicated to different demographic characteristics of the population. The volumes used here are called in Greek Epaggelmata or Professions and report data regarding labor market outcomes. Appendix A describes the censuses.
    ${ }^{2}$ The only exception is the department of the Dodecanese Islands, which is missing in the sample, as it belonged to Italy until 1947. For consistency throughout the available censuses, I exclude Dodecanese from my study and have merged several provinces and departments, based on information regarding administrative units in ELSTAT (2019).

[^2]:    ${ }^{3}$ See footnote regarding the department missing in the data. Mount Athos is an autonomous polity within the Hellenic Republic and home to 20 monasteries under the direct jurisdiction of the Ecumenical Patriarch of Constantinople.
    ${ }^{4}$ Similar approach to the treatment in Boehnke and Gay (2020).
    ${ }^{5}$ See section 4.4. for equation and results.
    ${ }^{6}$ Data on economic activities, literacy rates, marital status and age structure are not available in the province level and therefore were not included here.

[^3]:    ${ }^{7}$ Figure 10 tests for common trends prior to the treatment, as also shown in the relatives trends of FLFP in figure 8.

[^4]:    ${ }^{8}$ I estimate Equation 1 for Male Labor Force Participation and use the same specifications as in Table 1.
    ${ }^{9}$ Figure 7 maps the distribution of the political opposition groups.

[^5]:    ${ }^{10}$ Information regarding employment in specific economic sectors is not available in the province level for all census years. Therefore, the analysis is conducted in the department level.

[^6]:    Notes. This table reports OLS estimates when regressing political opposition on pre-war province characteristics measured in 1951, or else specifically mentioned. FLFP denotes female labor force participation in percent; Communist share is the share of votes for the communist party in 1932 in percent; Center share is the share of votes for the center parties in 1932 in percent; Other characteristics include population in thousands, WWII occupation zones as an indicator, sex ratios in percent, and urbanization as an indicator.
    Robust standard errors in parentheses clustered in 139 provinces. * $\mathrm{p}<0.1$, ** $\mathrm{p}<0.05$, *** p<0.01

[^7]:    Notes. This table reports OLS estimates. The dependent variable is Female Labor Force Participation rates. Controls include communist vote shares and province coordinates. Extra Controls include urbanization as a binary variable and sex ratio.
    Robust standard errors in parentheses clustered in 139 provinces. * $\mathrm{p}<0.1$, ** $\mathrm{p}<0.05$, *** $\mathrm{p}<0.01$

[^8]:    ${ }^{11}$ Excluding the Dodecannese islands that were formally part of Greece in 1947.

[^9]:    ${ }^{12}$ The expansion of the Greek state as it is currently known was finally brought together for an ethnic and religious unification not earlier than 1947, with the concession of Dodecanese Islands by Italy. For consistency, the region of Dodecanese Islands is not included in the analysis of this paper.

[^10]:    ${ }^{13}$ The data are not available in a finer administrative level, namely in the province level.

[^11]:    Standard errors in parentheses

    * $\mathrm{p}<0.1, * * \mathrm{p}<0.05$, *** $\mathrm{p}<0.01$

