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WORK, CARE AND GENDER DURING THE COVID-19 CRISIS

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JEL Classification: J13, J16, J22, J31

Keywords: COVID-19, gender gaps, Home Production

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Work, care and gender during the Covid-19 crisis

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1 Introduction

Covid-19 is hitting most economies as hard as the deepest recessions, but given the exceptional nature of this crisis, the distribution of jobs and workers affected is quite different from previous downturns. While sectors like construction and manufacturing are typically most affected in regular recessions, including the Great Recession, the social distancing and lockdown measures implemented in response to the Covid-19 crisis have naturally hit service sectors with frequent interactions among consumers or between consumers and providers, such as retail, hotels, restaurants and travel. But even among workers whose activities are or were not directly subject to lockdowns, many are or have been unable to work as normal, as their work would not comply with social distancing (e.g. in construction, repairs and home services), and can be hardly performed from home.

Another distinctive feature of the pandemic crisis has been its impact on the volume of home production, reversing by decree a secular process of marketisation of childcare and home keeping. During lockdowns, virtually none of the typical components of home production could be outsourced to the market, and the closure of schools and nurseries meant that all education and childcare services were added to pre-existing home production needs.

The impact of the pandemic on the labour market as well as the volume of home production is likely to have consequences for the gender distribution of work. On the one hand, women tend to be over-represented in service industries that have been subject to lockdowns or social distancing measures. On the other hand, they are also over-represented in sectors that have been defined as critical to the Covid-19 response, as well as in occupations that can be performed from home. It is therefore ex-ante unclear whether one should expect women's labour market prospects to be more severely affected than men's. Another key aspect is that women on average perform the best part of home production tasks, most notably childcare, and more in general they bear almost the entirety of the earning penalty associated with childbearing (Kleven et al., 2019). Thus, increased care responsibilities while Covid-19 restrictions last could negatively impact gender inequality in earnings in the longer run.

This chapter contributes to a recent but growing economic literature investigating unequal socio-economic impacts of Covid-19 across a number of dimensions (see, among others, Adams-Prassl et al. 2020 and Blundell et al. 2020). A strand of this literature has

devoted special attention to unequal gender impacts. For the US, [Alon et al. \(2020\)](#) document larger employment losses for women than for men and explore their consequences for macroeconomic adjustment and the household division of labour. For the UK, [Andrew et al. \(2020\)](#) find that, in households with dependent children, mothers are more likely than fathers to be out of work or furloughed during the crisis and that the substantial increase in childcare for both parents has on average enlarged fathers' share of total childcare. [Sevilla and Smith \(2020\)](#) detect a larger increase in the overall childcare burden for mothers, but, as for [Andrew et al. \(2020\)](#), this is associated with a slight increase in father's share of total childcare, simply because fathers' contribution to childcare was on average much lower before the crisis. Finally, [Oreffice and Quintana-Domeque \(2020\)](#) find that poorer female employment outcomes during the crisis are also accompanied by a higher incidence of mental health issues. For other countries, [Farré et al. \(2020\)](#) and [Del Boca et al. \(2020\)](#) look into impacts on both paid and domestic work in Spain and Italy, respectively. In both countries, women take over most of the increased childcare burden, but evidence on their labour market outcomes is less clear-cut.

The majority of papers in this literature draw on evidence from ad hoc, real-time surveys carried out during the pandemic. These typically contain rich information on Covid-related aspects of work and family life, but they may not be linked to pre-pandemic outcomes. Only more recently have regular household and labour market surveys started to release waves of data that cover the pandemic period, with larger sample sizes and richer information on work and employment patterns at baseline.

Our work contributes to the literature on the Covid-19 impacts on the gender division of work in the labour market and the household, using data from the Covid-19 supplement to the Understanding Society longitudinal study. In contrast to results from independent surveys, we find evidence of roughly equal furloughing (and job loss) incidence across genders, but women on average experience slightly smaller hours' and earnings' losses, whether unconditional or controlling for a rich set of individual and job characteristics. Within the household, women on average take over the majority of increased childcare hours during the pandemic, but in a sizeable share of households fathers become the primary providers of childcare. These distributional consequences of the pandemic are important to understand its inequality legacy over the longer term.

2 Work patterns at baseline

We start by showing a snapshot of male and female work patterns at baseline under the lens of the Covid-19 incidence. This is done using data from the UK Quarterly Labour Force Survey (LFS) for April-June 2019, whose large sample size and detailed occupation and industry classifications allow us to precisely identify jobs subject to lockdown and those that have been defined as critical to the Covid-19 response.¹

We classify jobs into four categories. The first group includes jobs in critical industries (mostly health care, public services and security). The second group includes jobs in shut-down industries (mostly non-essential retail, hospitality, accommodation and food services).² We categorise all remaining jobs into those that can be done from home and those that cannot, which is plausibly the relevant distinction to predict employment and earning losses outside critical and shut-down sectors. This classification is done by matching [Dingel and Neiman \(2020\)](#)'s classification of teleworkable occupations – based on task descriptions in O*NET – with the UK classification of occupations in the LFS.³

The distribution of employment across these four categories is shown in [Figure 1](#). More women than men are employed in critical sectors (about 46% and 39% of working women and men, respectively). Offsetting this, more women than men are employed in sectors subject to the lockdown (about 19% and 13%, respectively). For the remaining 48% of men and 35% of women, the incidence of earnings losses is closely linked to their ability to work from home (WFH). WFH is largely possible in female-dominated sectors like education, where teachers support distance learning for many children and

¹This evidence was previously shown in [Hupkau and Petrongolo \(2020\)](#).

²We classify industries as critical if they are mentioned in [Cabinet Office and Department for Education \(19 March 2020\)](#) and as shut-down if they are mentioned in [Cabinet Office and Ministry of Housing, Communities and Local Government \(9 April 2020\)](#).

³[Dingel and Neiman \(2020\)](#) use responses to O*NET surveys on work context and activities to classify 6-digit occupations into those that can be performed from home and those that cannot (binary classification). We map the resulting 6-digit O-NET-SOC2010 classification into the 4-digit UK SOC2010 classification available in the UK LFS based on a cross-walk from 6-digit O-NET-SOC2010 to 4-digit US-SOC2010 and finally to 4-digit UK-SOC2010 occupations (369 categories). When a few 6-digit occupations feed into one 4-digit occupation, we classify the 4-digit occupation as doable from home if the majority of 6-digit occupations associated with it are classified as such. We manually re-classify as doable from home a handful of managerial and technical 4-digit occupations (e.g. elected officers and representatives, financial administrative occupations); and manually re-classify as not doable from home about 30 miscellaneous occupations (a few occupations in public transport, a few care and service occupations, and a few technician occupations associated with workplaces, e.g. lab technicians). Overall, we estimate that 43% of jobs in the UK can be done from home (based on LFS data for April-June 2019). [Dingel and Neiman \(2020\)](#) perform a similar exercise and obtain an estimate of 43.5% for the UK, based on ILO data from 2018.

young people. In contrast, WFH is not possible in many male-dominated sectors like construction, repairs, and large parts of manufacturing. Indeed, about 24% of women and 19% of men are in jobs that can be done from home – having excluded critical and shut-down sectors. Taking these factors into account, it is ex-ante unclear whether women’s employment and earning prospects should be more or less severely affected than men’s.

The other relevant aspect of the pandemic regards the gender distribution of home production, including (most notably) childcare. One important factor behind changes in childcare needs is marital or cohabitation status. Women are more likely than men to raise children as single parents. Using LFS data, we estimate that 20.3% of households with dependent children (aged 15 or below) are headed by single mothers, against 3.3% headed by single fathers. Hence, for single parent households, women are far more likely than men to be the sole providers of the sharp increase in childcare during the lockdown. Second, the distribution of home production depends on the working status of partners (if any), which is itself affected by the crisis. Figure 2 shows the distribution of partner status for women with dependent children. Around one third of all women with dependent children work in critical jobs (as opposed to 46% of all working women). Of these, 57% have either no partner or a partner who also works in a critical job, and are likely to rely on basic childcare services guaranteed by the education system to parents in critical jobs. The remaining 43% has a partner who is staying at home – whether he is employed in a shut-down sector (6%), or cannot go to work due to social distancing (33%), or does not work at all (4%). In these households, we would expect a reversal of the home production gap, with men taking over the bulk of increased childcare and housekeeping needs. Among mothers who are not in critical jobs, and therefore stay at home during the lockdown, 21% have no partner and 26% have a partner in a critical job, and hence are likely fully in charge of home production. The other 53% has a stay-at-home partner, and home production is somehow shared between spouses.

There is plenty of pre-Covid-19 evidence on the contribution of men and women to home production from time use data. According to the 2014-15 Time Use Survey for the UK, women do 27 hours per week of home production on average, while men do 16 hours on average. Among households with dependent children, weekly home production hours are 40 for mothers and 20 for fathers, of which 17 and 8, respectively, represent childcare.

The key question is therefore whether the additional home production falls on men and women according to baseline specialization patterns, in which case women would be at the receiving end of the best part of increased home production requirements.

Below we address questions on impacts of Covid-19 on the gender division of both paid and unpaid work using the Covid-19 supplement of the Understanding Society (USoc) study. Relative to the UK LFS, the Covid-19 study has the advantage of surveying participants at the monthly frequency, linking their answers to regular USoc waves, and providing detailed information on domestic work, including childcare and home schooling. The disadvantage of the Covid-19 study, however, is that it does not contain fine-grained information on occupation or industry at baseline, hence we cannot identify jobs that are subject to the lockdown or jobs that have been defined as critical. The next section will give details on this dataset.

3 Data

With the introduction of the Covid-19 Study in April 2020 (ISER, 2020a,b),⁴ participants from the main USoc sample have been asked to complete a short web-based survey each month, eliciting information on the impact of the pandemic on their work and family lives. These data have some clear strengths. First, they record retrospective information on outcomes of interest at baseline, i.e. before the onset of the pandemic, as of January-February 2020,⁵ as well as contemporaneous information from April onwards. Second, individual records can be linked to past and future waves of the annual USoc survey, facilitating long-run analyses of Covid-19 impacts. Third, selective non-response can be tracked down to a rich set of individual characteristics (available from the earlier USoc annual waves) and accounted for using the weights provided.

We use information from the first two Covid-19 monthly surveys, which were carried out between 24-30 April and between 27 May and 2 June, respectively, among all USoc participants who had responded in at least one of the two previous annual surveys (wave nine and ten, carried out in 2017-18 and 2018-19, respectively). The response rates are 46% and 48.5% in the April and May waves, respectively (slightly rising to 48.6% and 49.1% if one includes partial responses), among those who responded in wave nine.

⁴This is available through the UK Data Service (SN8644)

⁵For simplicity we will refer to the baseline period as January 2020.

Compared to the 86% response rate in wave nine, relative to wave eight participants, retention in the Covid-19 study is considerably lower.⁶

To get a sense of selective attrition in the data, Table 1 compares descriptive statistics among USoc wave nine and Covid-19 waves one and two respondents (data from wave ten will only be released in November 2020). Covid-19 respondents are on average slightly older, more likely to be female, college educated, British, married, employed at wave nine and higher earners. To facilitate population inferences, the Covid-19 Study provides weights to account for differential selection probabilities and nonresponse. These are based on information from wave nine, allowing to estimate differential response conditional on a very rich set of individual and household characteristics. All descriptive evidence and regression results based on Covid-19 data below are obtained using such weights.⁷

For validation, we compare retrospective information on labour market outcomes in the Covid-19 Study with information from the January-March 2020 UK Labour Force Survey. Table 2 reports descriptive statistics on employment rates and working hours for the overall population and for men and women separately. Figures on employment rates are remarkably close across the two data sources, but there are some slight differences in working hours. A potential reason for small divergences is that the weighted Covid-19 data provide estimates that are representative of the UK adult population as of the USoc wave nine, which was conducted during 2017 and 2018. This implies that the weights provided might not be exactly representative of the adult population in 2020.

To describe Covid-19 impacts on labour market outcomes, we select all individuals aged 16 to 64 who participated in at least one of the Covid-19 waves and who had previously participated in USoc wave nine ($N = 10,703$). We restrict further to those who report being employed as of January 2020 ($N = 8,362$), and drop individuals with missing information on age, education, region, or basic employment characteristics, leaving us with a sample of 8,073 individuals. Descriptive statistics for this sample are reported in Table 3.

The analysis of outcomes relating to domestic work and childcare combines the Covid-

⁶Because the Covid-19 study is treated as an instrument of the wave nine annual interview, respondents who did not complete a wave nine interview are assigned a zero weight. More information on how weights were developed can be found in [ISER \(2020b\)](#).

⁷Indeed, we found some of the results on gender differences to be sensitive to the use of weights (unweighted estimates not reported).

19 Study with pre-Covid data sources. For information on hours of housework, we select individuals living as a couple, who participated in at least one of the Covid-19 waves. Having dropped individuals with missing information on basic individual or employment controls, or missing information on household composition, we are left with a sample of 10,643 individuals (17,614 observations). Pre-Covid information on housework is obtained from USoc wave eight (2016-17, $N = 17,610$).

For the analysis of childcare we further select individuals with children aged 15 and below, leaving us with a sample of 3,384 individuals and 5,384 observations across the two waves of the Covid-19 study. For the pre-Covid period, we only have limited information on childcare provision, as individuals are only asked in USoc wave eight about the person mainly in charge of childcare in their household ($N=5,892$), and no information on childcare hours is provided. We therefore compare descriptive statistics on childcare hours during Covid-19 to corresponding statistics from the latest UK Time Use Survey (2014-15). Table 4 provides detailed summary statistics for variables regarding non-market work.

4 Labour market outcomes

The (short-run) impact of the pandemic on the labour market can be assessed by comparing information on outcomes as of the April and May 2020 survey dates with retrospective information referring to January 2020. Among individuals who report being employed in January 2020 (including employees and the self-employed), about 4.3% report being out of work by May 2020, including involuntary separations and quits.⁸ Most of the adjustment in working hours during the downturn has taken place via furloughing under the Coronavirus Job Retention Scheme introduced on 20 March 2020⁹ and, according to Government guidance, those on furlough are classified as being employed. By the end of May, about 29% of employees report having ever been furloughed in the Covid-19 Study,

⁸For comparison, ONS (2020b) estimates of UK employment based on the Quarterly Labour Force Survey show only slight variations in employment and unemployment rates between the first and second quarter of the year. Despite relatively flat unemployment figures, the number of people claiming benefits roughly doubled from 1.3 to 2.7 million between March and May 2020, corresponding to 3.5 and 7.4 of the workforce, respectively, in large part due to enhancements to Universal Credit coverage, which made a higher share of workers eligible for unemployment-related benefits while still in work.

⁹This provides grants to employers to pay 80% wages to furloughed employees, up to a cap of GBP 2,500 per person per month.

in line with evidence collected by [ONS \(2020a\)](#) in a survey of businesses.¹⁰ Over the same period, working hours among those employed in January 2020 fell by 11.2 hours weekly on average and earnings fell by 9.5% on average (or GBP 36).

Table 5 shows results from linear probability models for the incidence of job loss. The dependent variable is equal to one for all individuals who report being out of work in either April or May 2020, having reported to be in work in January. We treat job loss as an absorbing state, and the sample contains one observation per individual. Regressions control for a set of individual and job-related characteristics. Most characteristics are recorded in the Covid-19 Study and refer to January 2020. Whenever relevant controls are not available in the Covid-19 Study, as is the case for education, industry and occupation, we use information recorded in wave nine.

The specification in column 1 only controls for a female dummy (and a dummy for survey wave), and shows evidence of virtually no gender differences in the likelihood of job loss. In column 2, we control for household composition (as well as age, education and region dummies), in column 3 we introduce job controls, including WFH habits, and in column 4 we additionally control for two-digit industry and occupation, the finest classification available in USoc.¹¹ While there is some indication that WFH at baseline reduces the probability of job loss (from column 3), the incidence of job loss is very similar across genders. This result is in contrast with evidence for the US reported by [Alon et al. \(2020\)](#), who find much larger (and unprecedented) unemployment increases among women than men. It also somewhat differs from evidence based on real-time data for the UK analysed by [Adams-Prassl et al. \(2020\)](#), who find that women are about 2-3 percentage points more likely to report job losses than men, having controlled for individual and job characteristics. Columns 5 and 6 report results from separate regressions for men and women and show no evidence of gender differences in the impacts of household and job

¹⁰This overall picture is in contrast with corresponding evidence for the US, where furloughing was much less prevalent and the overall employment rate fell by about 11 percentage points according to the Current Population Survey and 19 percentage points according to the Real-Time Population Survey ([Bick and Blandin, 2020](#)), where the difference between the two figures in large part accounts for the number of individuals who are employed but not at work in the reference week, and hence akin to being furloughed.

¹¹WFH variables refer to how often an individual was working from home in January 2020. While the frequency of WFH is directly related to the share of job tasks that can be performed remotely, it is also affected by other personal and workplace factors, thus it is not directly comparable to the WFH definition that we have used to classify jobs in Figure 1. Unfortunately, the coarser occupational classification available in the USoc Covid-19 Study does not allow us to implement the [Dingel and Neiman \(2020\)](#) classification of jobs that can be performed from home.

characteristics.

Table 6 reports corresponding evidence for the incidence of furloughing among employees. The dependent variable is equal to one for individuals who report having ever been furloughed by May 2020. The raw gender differential reported in column 1 implies that women are nearly three percentage points less likely to be furloughed than men, but this effect is imprecisely estimated. The gender differential turns positive when including occupation and industry controls in column 4, consistent with lower furlough incidence in female-dominated jobs, but again the associated coefficient does not reach standard significance levels. As one would expect, the likelihood of furloughing is negatively and strongly correlated with the incidence of WFH before Covid-19, both in the whole sample (columns 3 and 4) and for each gender taken separately (columns 5 and 6).

We next present evidence on working hours in Table 7. As changes in hours may not be absorbing states, we exploit information on hours contained in each Covid-19 wave, and the sample includes repeated observations for individuals who responded in both waves. Panel A estimates a linear probability model for reduced working hours among those employed in January 2020, whether they are fully employed, furloughed or nonemployed. In May 2020, About 51% of men and 52% of women report reduced weekly hours (from column 1), but the gender differential is not statistically significant. Only when controlling for job characteristics in columns 3 and 4 does the gender differential become significant (and larger in magnitude). As expected, the likelihood of working shorter hours increases with the presence of young kids in the household, and decreases with WFH habits. While women are more likely to experience hours losses, their average hours reduction is smaller than for men, as shown in Panel B. The raw differential is about 2.8 weekly hours (column 1) and shrinks by about a half when controlling for the full set of job characteristics (column 4).

Evidence on changes in earnings is shown in Table 8. Differently from hours losses, raw earnings losses are less frequent among women (Panel A, column 1), but this differential is fully explained by job characteristics (columns 3 and 4). Moreover, earnings' losses for women are on average smaller than for men (Panel B). Using estimates for raw differences in column 1 of Panel B, men lose on average about 38 GBP per week, corresponding to a 7.7% fall with respect to their January 2020 earnings. Women lose on average 10 GBP per week, corresponding to about 3% of their January 2020 earnings. More than 40% of

this differential is explained by job characteristics (column 4).

In summary, we find evidence that labour market outcomes of men and women were roughly equally affected at the extensive margin, as measured by the incidence of job loss or furloughing, but if anything, women suffered smaller losses at the intensive margin, experiencing slightly smaller changes in both working hours and earnings. This finding is broadly in line with evidence from administrative data on the claimant count, which includes both those out of work and those working on low earnings or hours, and thus represents an indicator of overall economic disadvantage for those who participate in the labour force. Between March and May 2020, the proportion of the male labour force in the claimant count rose from 3.9% to 8.6%, while the corresponding figure for women rose from 3.1% to 6.1%, thus showing a slightly higher increase for men than for women, both in absolute and relative terms. These gender differentials are also echoed by information on welfare receipt from the Covid-19 Study: 4.5% and 3.3% of men and women, respectively, report to have applied for Universal Credit since January 2020, with 3.5% and 2.5%, respectively, already in receipt by May 2020.

5 Home production

Measuring changes in home production (and childcare in particular) during the pandemic is complicated by the fact that the Covid-19 Study does not contain retrospective information on these variables. We thus benchmark information provided in the Covid-19 Study to comparable information from previous USoc surveys and the UK Time Use Survey. As we are primarily interested in the gender division of work within the household, we restrict our working sample to heterosexual couples, whether married or cohabiting.

The Covid-19 questionnaire covers several aspects of domestic work, including hours spent on housework (cooking, cleaning and doing the laundry) and hours spent on childcare (including home schooling). Figure 3 gives a snapshot of the gender division of housework before and during Covid-19. Information on housework for the earlier period is available from USoc wave eight. This shows that, in 2016-17, women were doing just over 14 hours of housework weekly, while men were doing about 6.5 hours. Corresponding figures for the Covid-19 period have risen to about 16 and 10 hours for women and men, respectively. The overall amount of housework for the average 2-adult household has thus increased by about 25%, with a higher absolute and proportional increase for men, and

a reduction of the corresponding gender gap from 7.6 to 6 hours.

Regression results reported in Table 9 show that the gender gap in housework hours is only slightly affected by individual and job characteristics, whether before or during Covid-19 (see columns 1-3 in Panels A and B, respectively). While the overall gender gap in housework hours has fallen during Covid-19, it remains more sensitive to the presence of children, own employment status and partner’s employment status for women than for men, as shown in columns 4 and 5.

To show evidence on changes in childcare hours (including home schooling), we combine information in the Covid-19 study with comparable information from the UK Time Use Data from 2014-15. Figure 4 shows average weekly childcare hours by gender, before and after Covid-19. The sample refers to couples with children aged 15 and under. The first salient fact is the sharp increase in total childcare time, from nearly 25 to over 41 hours weekly. In 2014-15, mothers were doing on average 17 hours of childcare, while fathers were doing just under 8 hours. In 2020, mothers’ hours have risen to 26.5, and fathers’ hours have risen to 14.8. Women take on board a higher share of increased childcare needs than men (9.5 extra hours as opposed to 6.9 extra hours), with a corresponding increase in the gender differential from 9.2 hours in 2014-15 to 11.7 hours in 2020 (more than offsetting the fall in the gender differential in housework time).

Table 10 shows evidence on the determinants of the childcare differential. Controlling for individual characteristics and own job characteristics in column 2 explains about one hour of the overall differential, and controlling for own and partner’s employment status in column 3 explains nearly another hour.

While there is no earlier information on childcare hours in the USoc, wave eight respondents are asked about the main provider of childcare in their household (with possible answers being: (a) mainly self, (b) mainly partner, (c) shared, (d) someone else.) We create comparable information in the Covid-19 survey for households in which both partners answer the question on total childcare time. We define the main provider of childcare in April 2020 as (a) mainly self, if the respondent does 60% or more of the total reported childcare hours for the couple; (b) mainly partner, if the respondent does less than 40% of the total; (c) shared, if the respondent does between 40% and 60% of the total.

Column 1 in Panel A of Table 11 shows that about 57% of women were the main

providers of childcare in 2016-17, against about 2.6% of men. Just over 10% of this differential is explained by differences in the employment status of parents (column 3), while individual characteristics hardly make a difference (column 2). The change brought about by the pandemic is striking, with about one fifth of fathers mainly in charge of childcare in May 2020, against a roughly unchanged proportion of mothers (column 1, Panel B). With the adjustment to the lockdown, fathers seem to have taken over some of the childcare previously outsourced to the market or to extended family members, without directly biting into mothers' exclusive share of childcare.

While the best part of the additional childcare load has on average been taken over by mothers – largely according to pre-existing specialization patterns of spouses – the share of households in which the father is the main childcare provider has risen by nearly 8 times from 2.6% in 2016-17 to about 20% in May 2020. Distributional aspects of increased childcare needs are thus important to understand changes in gender roles during Covid-19. Gender differences in the role played by observable characteristics are also noteworthy. At baseline, both the presence of young children and the employment status of spouses has a much stronger impact on mothers' likelihood of being mainly in charge of childcare, as opposed to fathers'. Such gender differences are milder during the Covid-19 period, and in particular, being out of work is nudging fathers to be in charge of childcare more than mothers.

6 Conclusion

The recession caused by the pandemic has produced unprecedented economic losses and it has become clear that its effect has exacerbated existing inequalities along a number of dimensions, most notably socio-economic status and ethnicity, and have created new divides, for example between those who can work from home and those who cannot. Evidence on the gender dimension is somehow mixed. We find that, in what concerns the labour market, men and women experience similar employment losses or furloughing in the UK, although women suffer slightly smaller hour and earning losses overall. In the household, however, women provide on average for about 60% of increased childcare needs, implying a widening of pre-existing inequalities of parental roles. As school and nursery closures are ongoing in a number of countries around the world, including the US, women's increased care burden may build into longer-lasting inequalities via reduced

labour market involvement. In this respect, prioritizing school openings over other sectors subject to restrictions and introducing subsidies for individuals with care responsibilities could help alleviate some of the gendered effects of Covid-19.

Several of the impacts discussed are temporary in nature and can in principle be reversed with the end of the restrictions and the restart of usual economic activity. But given the recent radical changes to the organisation of work and family life, it is natural to reflect on potentially legacies of the crisis, via learning, habit formation and the evolution of social norms. First, the massive increase in the incidence of WFH has suddenly accelerated a pre-existing but slowly evolving tendency towards smart working and flexible work arrangements. The number of people working from home in the UK has risen from 2.9 million in 1998 to 4.2 million in 2014, representing 14% of employment, and an additional 1.8 million people report they would prefer to work from home if they were given the chance. According to a recent survey ([CIPD \(2020\)](#)), 86% of UK managers foresee organisational barriers to the adoption of flexible working in their workplaces. But it is possible that some of the perceived barriers will be eventually cracked by actual remote work patterns implemented during Covid-19. The demand for remote work varies across genders, with 48% of women employed in jobs that can be done from home in the UK, compared with 39% of men. Due to heavier household responsibilities, women also value flexible work schedules and shorter commutes more than men ([Mas and Pallais, 2017](#); [LeBarbanchon et al., 2020](#)), and thus may be more beneficially affected by remote work opportunities. But while WFH may provide women with the flexibility to combine market work and family commitments, it may also dilute employee presence and attachment to the workplace, with possibly detrimental effects on career progression.

Second, the pandemic crisis has witnessed the reversal of traditional gender roles in a sizeable share of UK households, in which fathers took the role of primary childcare providers. There is evidence that the spousal allocation of childcare is shaped in large part by social norms on gender roles, and that gender identity norms are only slowly evolving ([Bertrand, 2018](#)). But evidence has also shown that “forced” changes in gender roles may have permanent consequences beyond short-term circumstances, by accelerating the evolution of norms and eroding gender comparative advantages. For example, the mobilisation of men during the Second World War in the United States induced more women to enter the labour market, and thereby shaped the norms and preferences of

younger generations who were exposed to those early labour market entrants ([Fernández et al., 2004](#)). Relatedly, there is evidence that the introduction of fathers' quotas of parental leave has induced them to spend more time with their children in the longer run in some (though not all) contexts (see [Farré et al. \(2020\)](#); [Farré and González \(2019\)](#); [Patnaik \(2019\)](#) and references therein). One may therefore expect that the substantial redistribution of childcare involvement in nearly a fifth of UK households during the crisis may ease the breakdown of traditional gender roles come the recovery. We leave this analysis to future research.

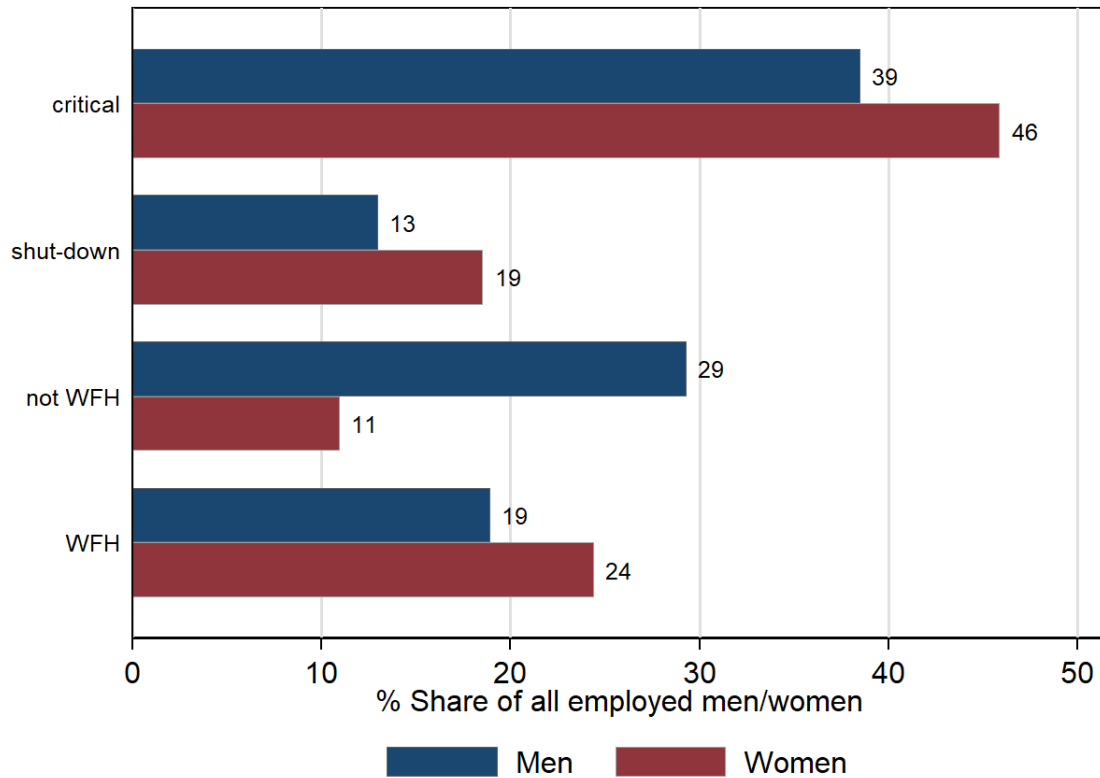
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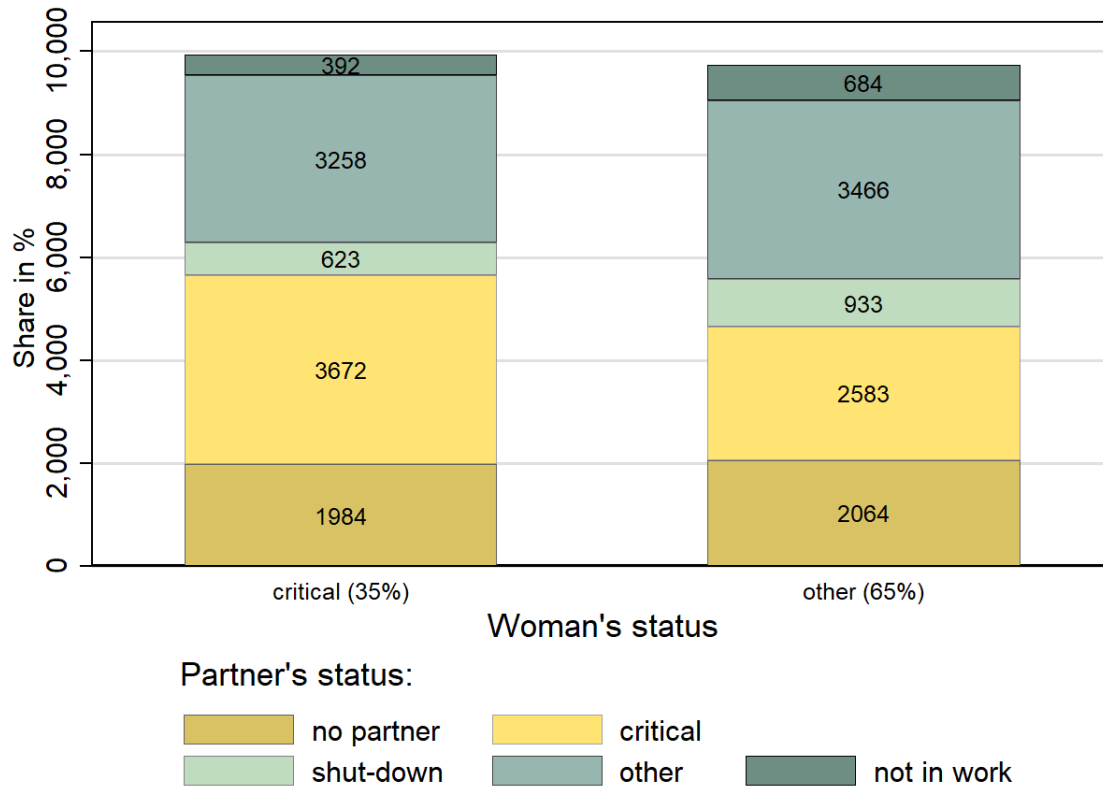
A Figures

Figure 1: The composition of jobs according to Covid-19 incidence



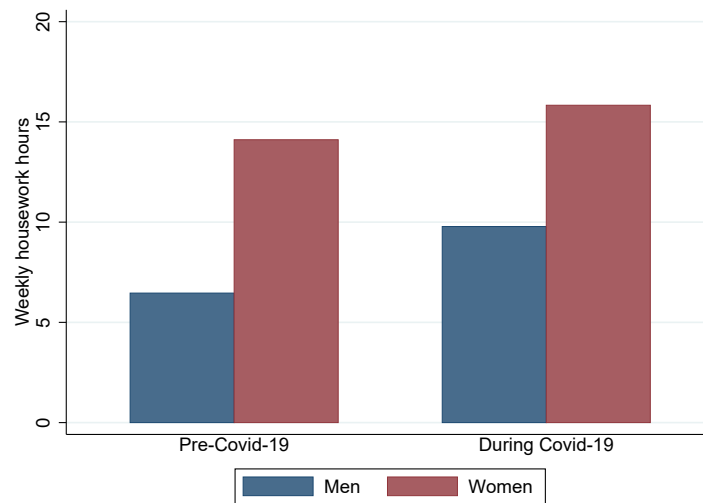
Notes. The bars show the incidence of critical jobs and shut-down jobs, as well as the incidence of working from home among those not in critical or shut-down jobs. For completeness, the percentage of critical jobs that can be done from home is 44 for men and 41 for women, and the percentage of shut-down jobs that can be done from home is 22 for men and 24 for women. Sample: employed men and women aged 16-64. Source: UK LFS, April-June 2019.

Figure 2: The distribution of partner's status, by women's status



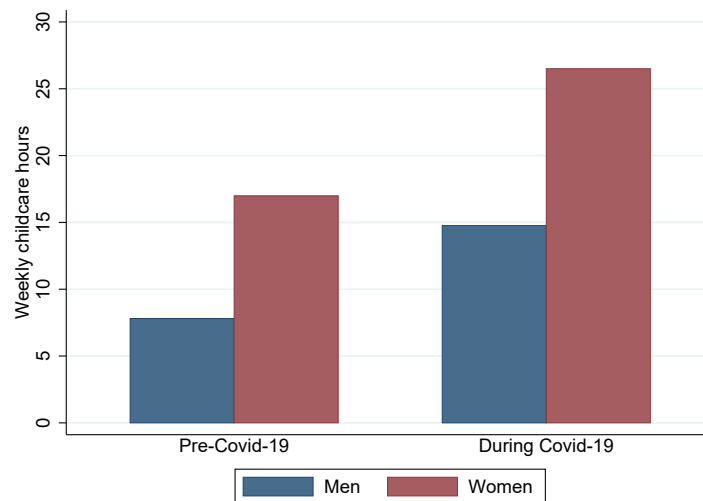
Notes. The “other” status indicates women staying at home during COVID-19 (including: in shut-down jobs, in non-critical jobs, not employed). The sample does not include households with two or more family units or same-sex couples with children (representing, respectively, 2.33% and 0.23% of households with children). Sample: Women with dependent children aged 15 or below. Source: UK LFS, April-June 2019.

Figure 3: Gender gaps in housework hours, before and during Covid-19



Notes. The bars show usual weekly hours spent on housework before Covid-19 (2016-17) and during Covid-19 (April-May 2020). Sample: men and women living in couple. Source: USoc wave nine and Covid-19 Study, waves one and two.

Figure 4: Gender gaps in childcare hours, before and during Covid-19



Notes. The bars show usual weekly hours spent on childcare and home schooling before Covid-19 (2014-15) and during Covid-19 (April-May 2020). Sample: men and women living in couple, with children aged 15 and below. Source: UK Time Use Survey 2014-15 and Covid-19 Study, waves one and two.

B Tables

Table 1: Characteristics of survey respondents

% share of respondents	(1) Wave 9 respondents	(2) Covid-19 Study respondents	(3) Difference (1)-(2)	(4) (p-value)
Female	55.71	57.96	-2.25	(0.00)
16-19	5.81	3.94	1.87	(0.00)
20-29	12.13	10.26	1.87	(0.00)
30-29	14.21	14.67	-0.46	(0.17)
40-49	17.57	19.02	-1.45	(0.00)
50-59	18.77	21.63	-2.86	(0.00)
60+	31.50	30.47	1.03	(0.02)
College and above	29.84	37.50	-7.66	(0.00)
Non-British ethnicity	22.50	16.49	6.01	(0.00)
Married	54.04	59.54	-5.50	(0.00)
Living as couple	9.85	10.96	-1.11	(0.00)
Never married	22.42	18.02	4.40	(0.00)
Working at wave nine	57.91	63.71	-5.79	(0.00)
Human health and social work	6.51	7.59	-1.08	(0.00)
Public administration and defence	3.92	4.95	-1.02	(0.00)
Accommodation and food service	2.84	2.44	0.40	(0.01)
HH income quintile 1	13.36	9.48	3.87	(0.00)
HH income quintile 2	16.73	15.01	1.72	(0.00)
HH income quintile 3	20.06	20.75	-0.68	(0.07)
HH income quintile 4	22.66	24.54	-1.87	(0.00)
HH income quintile 5	24.76	28.20	-3.43	(0.00)
HH income quintile unknown	2.43	2.03	0.40	(0.01)
Children aged 15 and below	25.43	26.05	-0.62	(0.13)
Age of youngest child	7.14	7.21	-0.07	(0.36)
<i>N</i>	32,596	16,934		

Notes: The table compares the characteristics of individuals who gave a full adult interview in USoc wave nine with the subset who also gave a full or partial interview in wave one or two of the Covid-19 Study. All individual and household characteristics are measured in wave nine. P-value of two-sample *t*-test for equal means in parenthesis (column 4). Source: USoc wave nine and Covid-19 Study, waves one and two.

Table 2: Employment statistics validation

	(1) LFS Jan-Mar 2020	(2) USoc Jan-Feb 2020	(3) Difference (1)-(3)
<i>All</i>			
Employment rate (%)	76.60 [42.34]	77.38 [41.84]	-0.78 (0.06)
Weekly working hours	31.77 [17.09]	34.44 [12.51]	-2.67 (0.00)
<i>Men</i>			
Employment rate (%)	79.87 [40.09]	80.80 [39.39]	-0.92 (0.14)
Weekly working hours	35.95 [16.54]	38.22 [11.20]	-2.27 (0.00)
<i>Women</i>			
Employment rate (%)	73.35 [44.21]	74.17 [43.77]	-0.82 (0.14)
Weekly working hours	27.36 [16.54]	30.56 [12.60]	-3.20 (0.00)

Notes: Standard deviations in brackets. All figures are obtained using weights. P-value of two-sample t -test for equal means in parenthesis (column 3). Weekly hours in the LFS correspond to total actual hours worked in the reference week. Weekly hours in the Covid-19 Study correspond to usual hours worked in January and February 2020. All samples include individuals aged 16-64. Source: UK Labour Force Survey January-March 2020 for column 1; USoc Covid-19 Study, waves one and two, for column 2.

Table 3: Summary Statistics - Market work

	(1)	(2)	(3)
	All	Male	Female
Age	42.06	42.47	41.64
College and above	37.99	36.86	39.14
Female	49.55	0.00	100.00
Children aged 0-15	37.49	37.71	37.28
<i>Labour market characteristics at baseline (Jan-Feb 2020):</i>			
Working	100.00	100.00	100.00
Weekly working hours	34.57	38.44	30.63
Weekly earnings	418.38	489.48	344.85
<i>Type of employment:</i>			
Employed	85.94	83.24	88.69
Self-employed	11.09	13.58	8.55
Both employed and self-employed	2.97	3.18	2.76
<i>Worked from home:</i>			
Always	5.18	4.75	5.63
Often	5.88	6.49	5.26
Sometimes	17.54	18.05	17.01
Never	71.40	70.71	72.10
<i>Contract type:</i>			
Fixed hours (Jan 2020)	67.69	63.50	71.95
Fixed salary (Jan 2020)	60.14	59.34	60.95
Paid by hours worked (Jan 2020)	24.44	22.01	26.90
<i>Labour market outcomes April/May 2020:</i>			
Ever job loss since baseline	4.27	4.41	4.13
Ever furloughed since baseline	28.59	30.14	27.10
Reduced hours	49.62	48.87	50.35
Reduced earnings	36.40	38.60	34.24
Weekly working hours	23.25	25.82	20.76
Change in working hours	-11.20	-12.62	-9.83
Weekly earnings	382.54	443.23	323.45
Change in weekly earnings	-36.35	-50.31	-22.67
<i>No. Individuals</i>	8,073	3,389	4,684

The sample includes individuals aged 16-64 who were employed in January-February 2020 and have no missing control variables. Summary statistics are derived using cross-sectional weights. Source: USoc, wave nine, and Covid-19 Study, waves one and two.

Table 4: Summary Statistics - Non-market work

	(1)	(2)	(3)	(4)	(5)	(6)
	All couples			Couples w children aged 0-15		
	All	Male	Female	All	Male	Female
<i>Household work:</i>						
Weekly hours housework (Covid-19)	12.77	9.78	15.83	13.83	10.89	16.80
<i>N</i>	17,614	7,939	9,675	5,402	2,266	3,136
Weekly hours housework (USoc wave 8)	10.25	6.46	14.11	10.90	6.63	15.14
<i>N</i>	17,610	8,365	9,245	5,821	2,681	3,140
<i>Childcare hours:</i>						
Weekly hours childcare (Covid-19)				20.58	14.76	26.50
<i>N</i>				5,384	2,262	3,122
Weekly hours childcare (UK TUS 2014-15)				12.43	7.81	16.99
<i>Main responsible childcare (Covid-19):</i>						
Mainly self				34.85	18.60	57.49
Mainly partner				39.44	55.41	17.20
Shared				20.82	21.03	20.54
Couple reports 0 hours childcare in total				4.88	4.96	4.77
<i>N</i>				3,147	1,557	1,590
<i>Main responsible childcare (USoc wave 8):</i>						
Mainly self				29.70	2.60	56.81
Mainly partner				22.10	41.34	2.86
Shared				47.94	55.68	40.20
Someone else				0.26	0.39	0.13
<i>N</i>				5,892	2,718	3,174

Source: Understanding Society wave eight and nine and COVID-19 Study, waves one and two. UK Time Use Survey 2014/15.

Notes: Columns (1)-(3) refer to the sample of individuals who are living in couple, columns (4)-(6) refer to the subsample of those with children aged 15 and below. Summary statistics are derived using cross-sectional weights.

Table 5: Job loss during COVID-19

	(1)	(2)	(3)	(4)	(5)	(6)
	All	All	All	All	Males	Females
Female	-0.00355 (0.0100)	-0.00525 (0.00946)	-0.00457 (0.00887)	-0.00528 (0.0101)		
Living as a couple		-0.0165 (0.0110)	-0.0124 (0.0108)	-0.0151 (0.00905)	-0.0141 (0.0159)	-0.0155 (0.0109)
Has children age 0-4		-0.00106 (0.0124)	-0.000859 (0.0122)	0.00506 (0.0116)	-0.00139 (0.0166)	0.0129 (0.0174)
Has children age 5-15		0.0120 (0.0142)	0.0112 (0.0137)	0.00753 (0.0119)	0.00779 (0.0118)	0.00507 (0.0196)
Always WFH (Jan 2020)			-0.00106 (0.0190)	-0.00164 (0.0150)	0.00891 (0.0298)	-0.00788 (0.0134)
Often WFH (Jan 2020)			-0.00886 (0.0125)	-0.00629 (0.0131)	0.00303 (0.0214)	-0.00985 (0.0136)
Sometimes WFH (Jan 2020)			-0.0136* (0.00629)	-0.0109 (0.00682)	-0.00837 (0.00957)	-0.00653 (0.00976)
Constant	0.0473*** (0.00860)	0.108* (0.0463)	0.130* (0.0572)	0.0508 (0.0524)	0.101 (0.122)	0.0354 (0.0602)
Observations	8073	8073	8073	8073	3389	4684
Age and Education	Yes	Yes	Yes	Yes	Yes	Yes
Region FE	No	Yes	Yes	Yes	Yes	Yes
Job characteristics	No	No	Yes	Yes	Yes	Yes
Occupation FE	No	No	No	Yes	Yes	Yes
Industry FE	No	No	No	Yes	Yes	Yes

Notes. The dependent variable is equal to one if the individual reports to be non-employed in April or May 2020, and zero otherwise. Non-employment in April is treated as an absorbing state. Age controls are dummy variables for ages 20-29, 30-39, 40-49, 50-59, 60+ (16-19 is the excluded category); education controls are dummy variables for GCSEs or equiv., A-levels or equiv., and college education or higher; job characteristics are indicators for self employment, fixed hours, fixed salary and paid by the hour; occupation and industry fixed-effects are at the 2-digit level. All covariates refer to January 2020, except education, occupation and industry, which are imported from USoc wave nine (2017-18). All specifications control for an April wave dummy and use cross-sectional weights. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$. Sample: all employed individuals in January 2020, aged 16-64. Source: Understanding Society (wave nine) and Covid-19 Study (waves one and two).

Table 6: Ever furloughed during Covid-19

	(1)	(2)	(3)	(4)	(5)	(6)
	All	All	All	All	Males	Females
Female	-0.0291 (0.0168)	-0.0283 (0.0164)	-0.0277 (0.0164)	0.0174 (0.0163)		
Living as a couple		-0.0252 (0.0197)	-0.00844 (0.0199)	-0.0103 (0.0176)	-0.0224 (0.0289)	0.00259 (0.0219)
Has children age 0-4		0.00236 (0.0298)	0.00231 (0.0288)	0.0216 (0.0256)	0.0435 (0.0342)	-0.00154 (0.0362)
Has children age 5-15		0.0209 (0.0198)	0.0226 (0.0200)	0.0265 (0.0172)	0.0176 (0.0253)	0.0362 (0.0220)
Always WFH (Jan 2020)			-0.121*** (0.0310)	-0.118*** (0.0315)	-0.137** (0.0428)	-0.0930* (0.0433)
Often WFH (Jan 2020)			-0.0790* (0.0309)	-0.0586* (0.0271)	-0.0303 (0.0424)	-0.0760* (0.0319)
Sometimes WFH (Jan 2020)			-0.107*** (0.0175)	-0.0923*** (0.0169)	-0.0676* (0.0272)	-0.109*** (0.0203)
Constant	0.295*** (0.0142)	0.577*** (0.0833)	0.663*** (0.0922)	0.182 (0.114)	0.167 (0.192)	0.540* (0.230)
Observations	7118	7118	7118	7118	2878	4240
Age and Education	Yes	Yes	Yes	Yes	Yes	Yes
Region FE	No	Yes	Yes	Yes	Yes	Yes
Job characteristics	No	No	Yes	Yes	Yes	Yes
Occupation FE	No	No	No	Yes	Yes	Yes
Industry FE	No	No	No	Yes	Yes	Yes

Notes. The dependent variable is equal to one if the individual reports to be furloughed in April or May 2020, and zero otherwise. Furloughing in April is treated as an absorbing state. Age controls are dummy variables for ages 20-29, 30-39, 40-49, 50-59, 60+; education controls are dummy variables for GCSEs or equiv., A-levels or equiv., and college education or higher; job characteristics are indicators for self employment, fixed hours, fixed salary and paid by the hour; occupation and industry fixed-effects are at the 2-digit level. All covariates refer to January 2020, except education, occupation and industry, which are imported from USoc wave nine (2017-18). All specifications control for an April wave dummy and use cross-sectional weights. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$. Sample: all employees in January 2020, aged 16-64. Source: Understanding Society (wave nine) and Covid-19 Study (waves one and two).

Table 7: Working hours during Covid-19

Panel A: Incidence of reduced weekly hours						
	(1)	(2)	(3)	(4)	(5)	(6)
	All	All	All	All	Males	Females
Female	0.0148 (0.0153)	0.0168 (0.0150)	0.0367* (0.0146)	0.0310* (0.0157)		
Living as a couple		-0.0319 (0.0190)	-0.0219 (0.0180)	-0.0194 (0.0158)	-0.0261 (0.0257)	-0.0108 (0.0194)
Has children age 0-4		0.0605* (0.0254)	0.0615** (0.0236)	0.0705** (0.0216)	0.0767* (0.0306)	0.0607* (0.0301)
Has children age 5-15		0.0280 (0.0177)	0.0228 (0.0166)	0.00963 (0.0153)	-0.0166 (0.0224)	0.0378 (0.0204)
Always WFH (Jan 2020)			-0.0836** (0.0267)	-0.0730** (0.0270)	-0.0678 (0.0427)	-0.0593 (0.0350)
Often WFH (Jan 2020)			-0.0784** (0.0260)	-0.0531* (0.0246)	-0.0395 (0.0359)	-0.0618 (0.0333)
Sometimes WFH (Jan 2020)			-0.0595*** (0.0172)	-0.0380* (0.0165)	-0.0290 (0.0247)	-0.0444* (0.0214)
Constant	0.507*** (0.0133)	0.605*** (0.0712)	0.711*** (0.0806)	0.100 (0.147)	0.133 (0.230)	0.0729 (0.195)
Panel B: Change in weekly hours						
	(1)	(2)	(3)	(4)	(5)	(6)
Female	2.782*** (0.594)	2.643*** (0.583)	2.108*** (0.584)	1.371* (0.613)		
Living as a couple		1.375 (0.740)	0.985 (0.723)	1.147 (0.633)	1.300 (1.095)	0.672 (0.737)
Has children age 0-4		-0.583 (0.957)	-0.594 (0.933)	-0.970 (0.814)	-1.189 (1.345)	-0.537 (0.871)
Has children age 5-15		-0.570 (0.669)	-0.467 (0.633)	0.189 (0.576)	0.484 (0.921)	-0.254 (0.667)
Always WFH (Jan 2020)			5.648*** (1.131)	4.927*** (1.119)	5.204** (1.894)	4.215** (1.355)
Often WFH (Jan 2020)			2.896** (1.046)	1.944* (0.970)	0.730 (1.534)	2.948** (1.118)
Sometimes WFH (Jan 2020)			3.279*** (0.633)	2.524*** (0.597)	2.318* (0.929)	2.460*** (0.716)
Constant	-11.89*** (0.535)	-12.06*** (2.981)	-16.42*** (3.306)	-1.020 (6.273)	2.880 (9.833)	4.514 (7.416)
Observations	14133	14133	14133	14133	5860	8273
Age and Education	No	Yes	Yes	Yes	Yes	Yes
Region FE	No	Yes	Yes	Yes	Yes	Yes
Job characteristics	No	No	Yes	Yes	Yes	Yes
Occupation FE	No	No	No	Yes	Yes	Yes
Industry FE	No	No	No	Yes	Yes	Yes

Notes. The dependent variable in Panel A is equal to one if the individual reports fewer working hours in April-May than in January 2020 and zero otherwise; in Panel B it is equal to the change in weekly hours between January and April-May 2020. Each individual contributes a number of observations equal to the number of Covid-19 waves s/he participated to. Age controls are dummy variables for ages 20-29, 30-39, 40-49, 50-59, 60+; education controls are dummy variables for GCSEs or equiv., A-levels or equiv., and college education or higher; job characteristics are indicators for self employment, fixed hours, fixed salary and paid by the hour; occupation and industry fixed-effects are at the 2-digit level. All covariates refer to January 2020, except education, occupation and industry, which are imported from USoc wave nine (2017-18). All specifications control for an April wave dummy and use cross-sectional weights. Standard errors are clustered at the individual level. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$. Sample: all employed individuals in January 2020, aged 16-64. Source: Understanding Society (wave nine) and Covid-19 Study (waves one and two).

Table 8: Earnings losses during Covid-19

Panel A: Incidence of earnings losses						
	(1)	(2)	(3)	(4)	(5)	(6)
	All	All	All	All	Males	Females
Female	-0.0437** (0.0156)	-0.0387** (0.0149)	-0.0188 (0.0142)	0.00677 (0.0152)		
Living as a couple		-0.0119 (0.0195)	-0.00107 (0.0177)	-0.0110 (0.0159)	0.00474 (0.0259)	-0.0135 (0.0196)
Has children age 0-4		0.0448 (0.0276)	0.0441 (0.0248)	0.0478* (0.0224)	0.0478 (0.0327)	0.0435 (0.0281)
Has children age 5-15		0.0194 (0.0184)	0.0119 (0.0175)	0.00969 (0.0163)	0.00658 (0.0234)	0.0166 (0.0216)
Always WFH (Jan 2020)			-0.0524 (0.0295)	-0.0417 (0.0291)	-0.0509 (0.0462)	-0.0197 (0.0340)
Often WFH (Jan 2020)			-0.0212 (0.0257)	-0.00886 (0.0254)	0.0316 (0.0372)	-0.0363 (0.0333)
Sometimes WFH (Jan 2020)			-0.0295 (0.0166)	-0.0197 (0.0160)	-0.0286 (0.0241)	-0.00310 (0.0210)
Constant	0.417*** (0.0137)	0.466*** (0.0734)	0.669*** (0.0839)	0.246 (0.178)	0.253 (0.289)	0.173 (0.150)
Panel B: Change in weekly earnings						
	(1)	(2)	(3)	(4)	(5)	(6)
Female	27.62** (8.552)	27.79** (8.666)	21.97* (8.590)	16.05* (7.337)		
Living as a couple		13.16 (11.79)	13.38 (11.61)	14.56 (10.40)	20.16 (21.95)	9.879 (9.509)
Has children age 0-4		-4.685 (13.89)	-5.270 (13.77)	-11.27 (12.07)	-2.700 (21.85)	-22.81* (9.589)
Has children age 5-15		-11.19 (10.14)	-8.053 (9.445)	-6.640 (8.002)	-12.95 (12.66)	-3.377 (8.597)
Always WFH (Jan 2020)			11.54 (17.13)	16.54 (19.29)	36.21 (31.04)	-8.794 (23.29)
Often WFH (Jan 2020)			-14.13 (14.39)	-0.693 (20.14)	-12.51 (37.77)	12.85 (12.11)
Sometimes WFH (Jan 2020)			0.187 (10.55)	7.982 (13.00)	0.795 (24.32)	6.740 (8.307)
Constant	-37.63*** (10.77)	-24.88 (30.79)	-86.61* (34.80)	238.2 (219.8)	167.4 (280.9)	86.66 (45.56)
Observations	12813	12813	12813	12813	5337	7476
Age and Education	No	Yes	Yes	Yes	Yes	Yes
Region FE	No	Yes	Yes	Yes	Yes	Yes
Job characteristics	No	No	Yes	Yes	Yes	Yes
Occupation FE	No	No	No	Yes	Yes	Yes
Industry FE	No	No	No	Yes	Yes	Yes

Notes. The dependent variable in Panel A is equal to one if the individual reports lower weekly earnings in April/May than in January 2020 and zero otherwise; in Panel B it is equal to the change in weekly earnings between January and April/May 2020. Each individual contributes a number of observations equal to the number of Covid-19 waves s/he participated to. Age controls are dummy variables for ages 20-29, 30-39, 40-49, 50-59, 60+; education controls are dummy variables for GCSEs or equiv., A-levels or equiv., and college education or higher; job characteristics are indicators for self employment, fixed hours, fixed salary and paid by the hour; occupation and industry fixed-effects are at the 2-digit level. All covariates refer to January 2020, except education, occupation and industry, which are imported from USoc wave nine (2017/18). All specifications control for a May wave dummy and use cross-sectional weights. Standard errors are clustered at the individual level. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$. Sample: all employed individuals in January 2020, aged 16-64. Source: Understanding Society (wave nine) and Covid-19 Study (waves one and two).

Table 9: Hours spent on housework before and during Covid-19

Panel A: Hours of housework in 2016-17					
	(1)	(2)	(3)	(4)	(5)
Female	7.651*** (0.131)	7.808*** (0.130)	7.320*** (0.135)		
Has children age 0-4		1.981*** (0.241)	1.828*** (0.241)	0.854** (0.267)	2.836*** (0.411)
Has children age 5-15		2.418*** (0.181)	2.255*** (0.182)	0.755*** (0.193)	3.962*** (0.318)
Not working (wave 8)			4.049*** (0.227)	2.727*** (0.273)	4.849*** (0.343)
Not working (wave 8) (partner)			-1.099*** (0.189)	-0.846*** (0.203)	-1.293*** (0.351)
Constant	6.461*** (0.0730)	0.564 (1.196)	0.440 (1.379)	2.589 (2.018)	6.468*** (1.609)
Observations	17610	17610	16035	7829	8206
Panel B: Hours of housework in April/May 2020					
	(1)	(2)	(3)	(4)	(5)
	All	All	All	Males	Females
Female	6.057*** (0.258)	6.226*** (0.253)	6.531*** (0.287)		
Has children age 0-4		2.626*** (0.500)	2.351*** (0.582)	1.727* (0.747)	3.221*** (0.893)
Has children age 5-15		2.239*** (0.349)	2.275*** (0.389)	1.715*** (0.496)	2.889*** (0.617)
Furloughed			1.864*** (0.521)	1.112 (0.689)	3.004*** (0.766)
Not working (Jan 2020)			2.807*** (0.445)	2.079** (0.648)	3.477*** (0.594)
Furloughed (partner)			-1.392** (0.499)	-1.315* (0.602)	-1.417 (0.764)
Not working (Jan 2020) (partner)			-0.820 (0.444)	-0.821 (0.588)	-1.271* (0.607)
Constant	9.986*** (0.205)	0.385 (1.339)	6.357*** (0.920)	8.162*** (1.314)	11.23*** (1.201)
Observations	17614	17614	11628	5712	5916
Individual controls	No	Yes	Yes	Yes	Yes
Own job characteristics	No	No	Yes	Yes	Yes
Partner job characteristics	No	No	Yes	Yes	Yes

Notes. The dependent variable is the number of weekly hours spent on housework, measured in USoc wave eight (Panel A) and in Covid-19 waves one and two (Panel B). In Panel B, each individual contributes a number of observations equal to the number of Covid-19 waves s/he participated to. Age controls are dummy variables for ages 20-29, 30-39, 40-49, 50-59, 60+ (16-19 is the excluded category); education controls are dummy variables for no qualifications, GCSEs or equiv., A-levels or equiv., and college education or higher. Own employment controls are indicators for being employed, frequency of working from home dummies, 2-digit industry and occupation dummies. All job-related dummies have an extra category for non-employed individuals. Partner's employment controls are only available for those whose partners gave a full interview. In Panel B, all covariates refer to January 2020, except education, occupation and industry, which are imported from USoc wave nine (2017-18). All specifications control for an April wave dummy and use cross-sectional weights. Standard errors are clustered at the individual level. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$. Sample: all individuals living in couple. Source: Understanding Society (wave nine) and Covid-19 Study (waves one and two).

Table 10: Hours spent on childcare and home schooling during Covid-19

	(1)	(2)	(3)	(4)	(5)
	All	All	All	Males	Females
Female	11.72*** (1.118)	10.73*** (1.101)	9.978*** (1.438)		
Has children age 0-4		13.89*** (1.265)	12.48*** (1.498)	9.199*** (1.838)	16.77*** (2.485)
Furloughed			4.357* (1.860)	7.665** (2.473)	-0.557 (2.467)
Not working (Jan 2020)			6.225* (2.580)	7.727 (5.387)	6.082* (3.066)
Furloughed (partner)			0.778 (2.048)	-1.361 (1.969)	3.781 (3.703)
Not working (Jan 2020) (partner)			-2.397 (2.185)	-2.559 (2.418)	-8.095* (3.380)
Constant	14.08*** (0.940)	1.400 (14.25)	9.054 (5.077)	18.19* (7.113)	4.341 (5.867)
Observations	5384	5384	3348	1647	1701
Individual controls	No	Yes	Yes	Yes	Yes
Own job characteristics	No	No	Yes	Yes	Yes
Partner job characteristics	No	No	Yes	Yes	Yes

Notes. The dependent variable is the number of weekly hours spent on childcare and home schooling, measured in April and 2020. Each individual contributes a number of observations equal to the number of Covid-19 waves s/he participated to. Age controls are dummy variables for ages 20-29, 30-39, 40-49, 50-59, 60+ (16-19 is the excluded category); education controls are dummy variables for no qualifications, GCSEs or equiv., A-levels or equiv., and college education or higher. Own employment controls are indicators for being employed, frequency of working from home dummies, 2-digit industry and occupation dummies. All job-related dummies have an extra category for non-employed individuals. Partner's employment controls are only available for those whose partners gave a full interview. All covariates refer to January 2020, except education, occupation and industry, which are imported from USoc wave nine (2017-18). All specifications control for a May wave dummy and use cross-sectional weights. Standard errors are clustered at the individual level. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$. Sample: individuals living in couple, with children aged ≤ 15 . Source: Understanding Society (wave nine) and Covid-19 Study (waves one and two).

Table 11: Parent mainly in charge of childcare before and during Covid-19

Panel A: Main childcare provider in 2016-17					
	(1)	(2)	(3)	(4)	(5)
Female	0.542*** (0.0106)	0.540*** (0.0106)	0.484*** (0.0124)		
Has children age 0-4		0.0515*** (0.0134)	0.0526*** (0.0134)	0.00819 (0.00990)	0.0974*** (0.0270)
Not working (wave 8)			0.189*** (0.0184)	0.114*** (0.0266)	0.217*** (0.0249)
Not working (wave 8) (partner)			-0.104*** (0.0133)	-0.0253** (0.00798)	-0.261*** (0.0390)
Constant	0.0260*** (0.00343)	0.373*** (0.0285)	0.223*** (0.0330)	0.00288 (0.0155)	0.574*** (0.0544)
Observations	5892	5892	5397	2596	2801
Panel B: Main childcare provider in April-May 2020					
	(1) All	(2) All	(3) All	(4) Males	(5) Females
Female	0.389*** (0.0236)	0.390*** (0.0231)	0.345*** (0.0246)		
Has children age 0-4		0.0112 (0.0262)	-0.000150 (0.0257)	-0.00395 (0.0314)	0.0235 (0.0404)
Furloughed			0.105*** (0.0308)	0.101* (0.0403)	0.120** (0.0428)
Not working (Jan 2020)			0.155*** (0.0425)	0.297** (0.0903)	0.120* (0.0471)
Furloughed (partner)			-0.139*** (0.0299)	-0.0609 (0.0377)	-0.226*** (0.0462)
Not working (Jan 2020) (partner)			-0.133*** (0.0338)	-0.105** (0.0389)	-0.208* (0.0879)
Constant	0.198*** (0.0210)	0.177 (0.0907)	0.232** (0.0871)	0.293** (0.100)	0.487*** (0.118)
Observations	3147	3147	3147	1557	1590
Individual controls	No	Yes	Yes	Yes	Yes
Own job characteristics	No	No	Yes	Yes	Yes
Partner job characteristics	No	No	Yes	Yes	Yes

Notes. The dependent variable is equal to one if the respondent is the main childcare provider and zero otherwise, measured in USoc wave eight (Panel A) and in Covid-19 waves one and two (Panel B). This information is elicited directly in USoc wave 8, while it is obtained from reported hours of childcare and home schooling in the Covid-19 Study. We define the main provider as (a) mainly self, if the respondent does 60% or more of the total reported childcare hours for the couple; (b) mainly partner, if the respondent does less than 40%. In panel B each individual contributes a number of observations equal to the number of Covid-19 waves s/he participated to. Age controls are dummy variables for ages 20-29, 30-39, 40-49, 50-59, 60+ (16-19 is the excluded category); education controls are dummy variables for GCSEs or equiv., A-levels or equiv., and college education or higher. Own employment controls are indicators for being employed, frequency of working from home dummies, 2-digit industry and occupation dummies. All job-related dummies have an extra category for non-employed individuals. Partner's employment controls are only available for those whose partners gave a full interview. In Panel B, all covariates refer to January 2020, except education, occupation and industry, which are imported from USoc wave nine (2017-18). All specifications control for an April wave dummy and use cross-sectional weights. Standard errors are clustered at the individual level. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$. Sample: individuals living in couple, with children aged ≤ 15 . Source: Understanding Society (waves eight and nine) and Covid-19 Study (waves one and two).