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**#21**

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# Home, sweet home? The impact of working from home on the division of unpaid work during the COVID-19 lockdown

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## Abstract

A lockdown implies a shift from the public to the private sphere, and from market to non-market production, thereby increasing the volume of unpaid work. Already before the pandemic, unpaid work was disproportionately borne by women. This paper studies the effect of working from home for pay (WFH), due to a lockdown, on the change in the division of housework and childcare within couple households. While previous studies on the effect of WFH on the reconciliation of work and family life and the division of labour within the household suffered from selection bias, we are able to identify this effect by drawing upon the shock of the first COVID-19 lockdown in Austria. The corresponding legal measures left little choice over WFH. In any case, WFH is exogenous, conditional on a small set of individual and household characteristics we control for. We employ data from a survey on the gendered aspects of the lockdown. The dataset includes detailed information on time use during the lockdown and on the quality and experience of WFH. Uniquely, this survey data also includes information on the division, and not only magnitude, of unpaid work within households. Austria is an interesting case in this respect as it is characterized by very conservative gender norms. The results reveal that the probability of men taking on a larger share of housework increases if men are WFH alone or together with their female partner. By contrast, the involvement of men in childcare increased only in the event that the female partner was not able to WFH. Overall, the burden of childcare, and particularly homeschooling, was disproportionately borne by women.

## 1 Introduction

Crises and measures to cope with them exert a different impact on men and women, regardless of whether the nature of the crisis is economic (e.g. [1, 2]), environmental (e.g. [3–5]) or social (e.g. [6, 7]). The COVID-19 pandemic is no exception to this rule. Following the rapid spread of the SARS-CoV-2 virus in early 2020, the immediate response of governments across the world was to lockdown<sup>1</sup> large parts of the economy to slow down the spread of

the virus and to mitigate negative effects on public health. A tremendous amount of research investigates the impact of the pandemic and the measures implemented to cope with it on social and economic outcomes.<sup>2</sup> The vast majority of that research studies aspects that are subject to official statistics, particularly labour market statistics and GDP, and stresses the gendered, but country-specific, effects of the pandemic.<sup>3</sup> However, spheres not subject to official or regular data production efforts usually remain a blind spot. This paper sheds light on one of these economically and socially significant blind spots: unpaid work. We study how the shift towards working from home (WFH) for pay due to the first, strict lockdown in Austria has had an impact on the division of unpaid work within households.

Unpaid work is conducted to provide unpaid domestic services for use within the household and for reproduction. It includes housework, care given to household members and others and the provision of community services [8]. Across the world, women work longer unpaid hours than men [8, 9]. Numerous approaches provide an explanation of the gendered patterns of time use, ranging from time availability approaches [10], to bargaining and separate spheres perspectives [11, 12], to the gender display approach [13–15]. Most of these theories stress that the division of labour within the household results from gendered power relations, which in turn are due to various factors: “some quantifiable, such as individual economic assets, others less so, such as communal/external support systems or social norms and institutions, or perceptions about contributions and needs” [16, p. 7]. Importantly, unpaid work enables productive and paid economic activity and stabilizes the economy in times of crisis. Despite its pivotal role for the economy, unpaid work is not counted as productive work in conventional productivity measures or GDP. Moreover, as unpaid work is invisible, it remains unrecognized in most policy decisions and is frequently neglected due to the belief that what happens in the household is a private matter. This became evident during the pandemic, as governments closed kindergartens and schools, while taking the provision of unpaid work in the home for granted [17].

The COVID-19 lockdowns caused a substantial increase in the volume of unpaid work by shifting production from paid to unpaid work and thus from market to non-market production. This particularly affected parents of young children. The closure of restaurants, canteens and bars translates into more time spent on grocery shopping and the preparation of meals at home. The lockdown of childcare institutions and schools increases the volume of unpaid work by shifting care almost exclusively to the home. This is intensified by contact restrictions that make cleaning staff and nannies employed by households unavailable. The hours spent on unpaid work also increased as the support of grandparents, relatives and friends was to be avoided in order protect their health and save lives. This overall increase in the volume of hours spent on unpaid childcare during lockdown is documented in a number of studies, and estimates range from an increase of 25% in Spain [18], to 37% in Hungary [19], up to double the pre-lockdown hours in the United Kingdom [20]. These and additional studies also find that during COVID-19 lockdowns, women worked longer hours unpaid than men [21, 22].

In addition to causing a gender-specific increase in the volume of unpaid work, lockdowns also imply a shift towards work from home for pay (WFH)

for non-essential<sup>4</sup> workers. As a result, many individuals and households have to rearrange their entire (paid and unpaid) work life. Thus, as the lockdown shifts the locus of production to the home, the household becomes the prime location of both market and non-market production. Thereby the barriers between WFH and unpaid work, between the public (paid) and the private (unpaid) sphere are blurred. Such a shift towards the home and household production also provokes behavioural responses that feed back into the public sphere and the economy. For instance, to cope with the increased volume of unpaid work, in particular childcare, mothers were more likely than fathers to reduce paid working hours in response to the lockdown [22–24]. Hence, the public and the private, the notion and extent of paid and unpaid work, are by no means separate spheres of work; rather – and this has clearly been revealed by COVID-19 lockdowns – they are interwoven and inseparable.

In this paper, we study the effect of WFH during the first, strict COVID-19 lockdown in Austria on the divisions of unpaid work within heterosexual couple households and the working conditions of WFH. From a conceptual point of view, we describe paid and unpaid work as interwoven dimensions of work and we answer three related research questions: did the involvement of males in housework and childcare increase during the lockdown as compared to before? Is there a gender gradient in the experience of WFH? What is the effect of WFH on the intra-household divisions of unpaid work? Our empirical strategy for estimating the effect of WFH on the change in the division of housework and childcare exploits the experimental setting provided by the lockdown measures. In essence, the pandemic and the following first lockdown are shocks exogenous to the demand of unpaid work. In Austria, the case studied in this paper, the design of the lockdown measures allowed for few possibilities to opt in and out of WFH. This fact makes it possible to identify the effect of lockdown-induced WFH on the intra-household division of unpaid work. We employ data collected from the survey *Multiple Burdens under COVID-19* that we conducted between April and May 2020, that is, during the first strict lockdown. Due to its relatively conservative views on gender roles, Austria is a country and case of great interest in this respect. According to the latest Eurobarometer survey No. 465 [25] almost 4 out of 10 residents agree that “the most important role of a woman is to take care of her home and family”. Amongst EU-15 countries, the share of individuals who concurred with this statement is larger only in Portugal (47%), Italy (51%), Ireland (52%) and Greece (69%). By contrast, in countries which rank high on gender equality indices such as Sweden, Denmark and the Netherlands, the share of respondents agreeing with this statement is below 16 %. In addition, Austria was, next to Italy, confronted with the rapid spread of the SARS-CoV-2 virus at an early stage of the pandemic. In the first weeks of the pandemic, Alon et al. [26] optimistically argued that the COVID-19 crisis would result in a more equal division of unpaid work within couple households, which would ultimately reduce gender inequality on the labour market. Thus, we test this assumption and examine whether WFH during the lockdown restrictions weakened or strengthened traditional gender roles as expressed in the division of housework and childcare.

We contribute to the literature on the gender-specific effects of lockdowns along the following lines. First, and most importantly, we present

the first paper that studies the *change* in the division of unpaid work, that is to say, in the division of housework and childcare, within households due to a lockdown. While previous work on the gendered division of labour in high-income countries during lockdowns has focused on hours of unpaid work by gender, we investigate whether and to what extent the first, strict lockdown intensified the pre-lockdown gendered division of unpaid work within the household. Second, we focus on the interwoven situations of WFH and unpaid work and argue that the household composition of WFH is a central mechanism behind this change. Although household characteristics such as age of household members, their education levels, and the hours worked for pay, for instance, are important determinants of the hours worked unpaid and the division of unpaid work within households, we expect to find a significant effect of WFH on the change in the within-household division of unpaid work conditional on these demographic and socio-economic characteristics. Third, we are able to identify the effect of WFH on the change in the division of unpaid work within households by exploiting the experiment provided by the first lockdown. While the impact of WFH on the division of unpaid work was already debated and studied before the COVID-19 pandemic (see for instance [27]), these contributions struggled to identify the effect of WFH, as in the investigated settings WFH could have been both a cause and a consequence of unpaid work.

## 2 Research Design: Institutional Setting, Data and Methods

In this chapter we introduce the research design. Specifically, we discuss the timing and nature of the lockdown measures, the data source, the sample definition and its characteristics, the definitions of the core variables, and the econometric strategy and estimation method we employ to study the effect of WFH due to the lockdown on the change in the division of unpaid work in couple households.

### 2.1 The first lockdown

The first COVID-19 patients were hospitalized as early as February 2020, yet it took a couple of weeks for the first legal measures to be announced and become effective in Austria. On 10th March 2020 the Austrian government announced the first regulations vastly restricting public and private life. Starting with Monday, 16th March, people could leave their homes only: (i) to attend their professional work if WFH was not feasible (such as for emergency services, the healthcare sector, or the food retail sector), (ii) to buy urgently needed goods (groceries, medicine, etc.), (iii) to look after care recipients or (iv) to exercise outside for one's physical and mental health. Thus, as of mid-March, restaurants, bars, hotels, nurseries, kindergartens, schools, universities, most offices, theatres, retail stores, other public institutions, and many more were temporarily closed. Only grocery stores, banks and pharmacies remained open. A couple of days later, an official obligation for "home office"<sup>5</sup> was announced a couple of days later, which reframed it as a "target requirement", meaning that, if feasible, employers should let their employees WFH.<sup>6</sup> In practice, "home

office” was enacted overnight for large parts of the working population, with no option to opt out. Additionally, with most of public life shut down, police enforced high fines whenever regulations were violated. This strict lockdown lasted one month, until after the Easter holidays (14th April), but “reopening” only started slowly on 1st May. While shops and stores could open again with strict safety measures on 14th April, childcare facilities and most educational institutions, businesses and food services, like restaurants, remained closed until the mid-Mid. Starting mid-May, schools opened and divided their students into alternating groups with each attending school only two days per week. With most offices staying closed and employees continuing to work from home, as well as most public childcare facilities still not fully operational, the “softer” lockdown period lasted until the end of June. In addition, the Austrian government implemented a short-time work scheme. That is to say, while essential workers continued going to work and others WFH, a substantial share of the workforce was confronted with a drastic reduction in paid working hours.

## 2.2 Data and survey design

We use individual-level data from the cross-sectional survey *Multiple Burdens under COVID-19* that we conducted during the strict COVID-19 restrictions in Austria. The overall aim of this survey is to enable research on the gender-specific effects of the COVID-19 pandemic. Compared to related surveys conducted in other countries, the strength of this data is that it is both broad in scope and particularly detailed on the extent of unpaid work and its division within households before as well as during the lockdown. Applying the guidelines of Statistics Austria on time use surveys [28], respondents had to report their time use on the previous working day in intervals of 15 minutes for a set of given time use categories, and these intervals had to add up to 24 hours. This provided a detailed overview of how people spent their days during April and May 2020, a period characterized by limited possibilities for activities outside the home. However, we refrained from surveying time use before the lockdown in similar detail for several reasons.<sup>7</sup> This implies that we are unable to compare the change in hours per activity (such as unpaid work tasks). However, we are able to study the change in the division of unpaid work within households by drawing on different questions.

In addition to information on time use, the data include rich information on the division, organization and quality of paid and unpaid work during the lockdown, on (satisfaction with) WFH, as well as a large set of socio-economic and demographic characteristics of the respondents and their partners and some information on any children who live in the same household. For standard items, such as the highest level education completed, the questionnaire was designed following other surveys, such as the European Survey on Income and Living Conditions 2020 [29], or – regarding time use – the last Austrian Time Use Survey of 2008/09 [28]. However, those questions that target information on WFH and the implications of the lockdown were adapted such that they could capture the novel situation of WFH. Unique features of the data are that they include information both on respondents’ and their cohabiting partners’ time use and on the division of unpaid work before as well as during the lockdown. We asked respon-

dents living in couple households whether their partner was also willing to participate in the survey. If so, (a.i) they received an anonymous partner ID for their partner to enter, which enabled us to link their responses. If not, (a.ii) respondents had the opportunity to answer a “partner module” on the time use and key characteristics (such as age, gender, education) of their partner. Thus, while the sampling and (main) observational unit of the survey are individuals, we can depict household dynamics via this partner data..

We designed the questionnaire in the first weeks of the lockdown and implemented it by means of the software LimeSurvey<sup>8</sup>. Before starting to distribute the survey, it was extensively pre-tested. The sampling strategy, targeting respondents with and without children who worked from home, is best described as “limited snowball sampling”: We distributed the survey via various mailing lists of the Vienna University of Economics and Business, the Vienna Chamber of Labour (that is, the legal representation of all dependent workers), and the Austrian transport and services union Vida. The call to answer the questionnaire was accompanied by the appeal to forward the survey to friends, family and colleagues. In addition, we posted the survey in groups of the social media platform Facebook<sup>9</sup> and on Twitter. The sampling strategy is hence a limited version of the standard snowball sampling design that exclusively samples based on the appeal to invite further respondents to answer a questionnaire. 2,113 respondents answered the entire survey between 20th April and 14th May 2020. As the snowball distribution strategy targeted individuals who were working from home at that time, the sample has a constraint: compared to the Austrian working population, it includes a disproportionately high share of individuals who completed tertiary education, who were obliged to WFH by the lockdown, and who live in Vienna, the capital city.

### 2.3 Sample and key variables

The main interest of this paper is to study the effect of WFH on the change in the within-household division of unpaid work. For this reason, we restricted the overall sample to 730 heterosexual couples (1,460 individuals) who

- b.i lived in the same household during the lockdown<sup>10</sup>
- b.ii were both either employed, self-employed or on short-time work at the time of the survey, and
- b.iii either one partner answered the “partner module” and thereby provided information on her/his partner, or both partners answered the survey and linked them via an anonymous partner ID.

Restrictions (b.i) and (b.iii) are necessary for the study of intra-household dynamics, while (b.ii) reduces the sample to working couples. We obtained 11% of the observations from questionnaires answered by two partners that we can link using a partner ID. However, the vast majority, 78%, of the observations are from questionnaires answered by women providing information about themselves and their male partner. The remainder is from questionnaires answered by males. Table S1 describes the characteristics of this sample in detail. In the following section, we discuss the main variables



of interest and the covariates we include in the econometric analysis.

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**Division of unpaid work within the couple household before and during the lockdown:**

We measure the division of unpaid work before and during the lockdown based on two questions that asked respondents to rank their share of (c.i) housework (HW) and (c.ii) childcare tasks (CC) on a scale from zero (“Woman does everything”) to ten (“Man does everything”). housework includes cooking, shopping and cleaning, but also tasks like gardening, animal care or repair work. Childcare comprises basic care, teaching (homeschooling), and recreational activities like talking, reading or playing with a child. Respondents had to answer these questions after having reported their time use for each of these subcategories. Thus, we assume that they were aware of the definition of housework and childcare when answering these questions. We define two of the main variables of interest based on these questions about the division of unpaid work within the household. First, the dependent variable in the econometric analysis is a dummy variable indicating whether the male partner took on more housework or childcare tasks during the lockdown than before the lockdown. This variable equals one, if the value on the corresponding 11-point scale was reported as being at least one point higher during the lockdown than before. 25% of all couples indicated that the male partner took on at least marginally more HW and 31% of all couples with children reported an increased involvement of the male partner in CC (see Table S1). Thus, we define the change in the division of HW and CC as an increased involvement of the male partner in these tasks. Second, we employ these questions as a measure for the division of housework and childcare prior to the lockdown. For this purpose, we subdivide the two 11-scale variables into four categories: “Woman does much more” (scale nos. 0–2), “Woman does more” (scale nos. 3–4), “Equal” (scale no. 5), “Man does (much) more” (scale nos. 6–10). Owing to the fact that in very few households men are primarily responsible for housework and/or childcare, we did not differentiate between “more” and “much more” in the case of males (see Table S1).

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**Working from home (WFH):**

In order to measure WFH during the COVID-19 restrictions, respondents who stated they were currently employed, self-employed or in short-time work were asked if they do WFH entirely, partly<sup>11</sup> or not at all. As we are interested in dynamics within couple households, we created a factor variable indicating whether within a heterosexual couple nobody, only the man, only the woman or both partners were WFH during the lockdown. Table S1 shows that the majority of respondents were WFH during the COVID-19 lockdown: in 19% only the woman was WFH, in 8% of cases only the man was WFH, whereas in 64% of all couples both were WFH.

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**Socio-economic characteristics (covariates):**

In addition, we include several covariates measured at the household and individual level in the econometric model: the relative income of partners, the highest level of education completed, age, number and age of children living in the household, employment status and working hours (see Table S1). In order to

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be able to assess the presence and extent of power dynamics as manifested in income differences between partners, respondents had to report their own net income in the last month, their total disposable household income and their partner’s net income according to one of 15 income brackets.<sup>12</sup> Based on this categorical income variable, we define a factor variable indicating whether a respondent earned either more, less, or roughly the same as their partner<sup>13</sup>. In the econometric specification, we focus on couples with children younger than 15 years and we grouped children according to their age. The cutoffs between age groups reflect differences in the educational status of the children: 0–2 years (very young children), 3–5 years (kindergarten), 6–9 years (primary school) and 10–14 years (lower secondary school). Table S1 shows the average number of children by age group and household type. Furthermore, we distinguish between individuals working part-time (less than 21 hours per week) and those who reduced their working time (involuntarily) due to short-time work. In addition, there is the group of “full-time short-time workers”, which refers to respondents who were in short-time work but still worked more than 21 hours per week<sup>14</sup>.

## 2.4 Data analysis and econometric approach

In order to answer the research questions, we make use of descriptive statistics as well as standard econometric methods. In the first part, the descriptive analysis, we provide evidence on the gendered burden of WFH, characterizing the division of housework and childcare during the lockdown. In the second part, the econometric analysis, we study the effect of WFH on the change in the division of unpaid work within households. For this purpose, we estimate an econometric model that explains the probability that the male partner increased his share in unpaid work during the lockdown. Importantly, under “normal” circumstances, that is to say, without any COVID-19 restrictions in place, it is impossible to establish a clear relationship between (a shift towards) WFH and (the resulting change in) the division of unpaid work in an observational study. For instance, individuals can opt into or out of the treatment (WFH), resulting in an endogenous treatment and thus biased estimates. In that case, it would not be clear whether the option of flexible work, specifically WFH arrangements, is either a cause or a consequence of parents’ involvement in household and care work. The COVID-19 restrictions in Austria offer an experimental setting that we can exploit to study the effect of WFH on the division of unpaid work: WFH was strongly recommended by regulation (see section 2.1) and enacted overnight. In practice, it was no longer a personal decision to WFH or not and there was no scope for planning. Within the population of working individuals, WFH can thus be considered as randomly assigned and exogenous. However, the legal WFH regulation entailed merely a strong recommendation to WFH. For this reason, we condition WFH on individual and household-level factors known to exert a key influence on the division of unpaid work as well as the pre-lockdown division of housework and childcare tasks. Thereby we are able to rule out any remaining possibilities for selection into or out of WFH.

We estimate a set of logistic regression models by maximum likelihood to investigate the effect of WFH on the binary dependent variable that describes changes in the division of unpaid work within couple households.

Subsequently, we calculate the average of the corresponding sample marginal effects for each variable in the regression model. These average marginal effects (AME) depict the average change in the probability that the dependent variable is true.

The population equation is given by equation 1

$$Pr(Y_h = 1|z) = G(\beta_0 + \beta_1 WFH_{i,j} + \beta_2 D_{i,j} + \beta_3 X_{i,j} + \epsilon_h) \quad (1)$$

where  $G(z)$  is the cumulative distribution function of the standard logistic distribution ( $G(z) = \frac{\exp(z)}{1+\exp(z)}$ ), which, for all real numbers, takes on values strictly between zero and one ( $0 < G(z) < 1$ ).  $\epsilon_h$  is assumed to have mean zero and a constant variance. Note the  $h$  refers to the couple household  $h = 1, \dots, N$  nesting the partners  $i, \dots, I$  and  $j, \dots, J$ . Thus, the dependent variable is the change in the division of housework at the household level, while the variables on the right are measured at the level of individuals nested in the corresponding household. For the sake of simplicity, we define  $\beta = [\beta_0, \beta_1, \beta_2, \beta_3]$  as the vector of coefficients corresponding to the variables in the matrices  $D_i$ ,  $WFH_i$ , and  $X_i$ , which together provide set of explanatory variables  $z_i$  in the population equation.  $\beta_0$  is a constant. We estimate equation 1 by means of maximum likelihood. Hence, we define the density of  $y_h$  conditional on  $z_h$  as  $f(y|z_h, \beta) = G(z_h\beta)^y [1 - G(z_h\beta)]^{1-y} \quad \forall y = 0, 1$ ; the log-likelihood of an individual observation is given by  $\ell_h(\beta) = y_j \log(G(z_h\beta)) + (1 - y_h) [1 - G(z_h\beta)]$ , while the likelihood function that is maximized in order to estimate  $\beta$  is defined as  $\mathcal{L}(\beta) = \sum_{h=1}^n \ell_h(\beta)$ .

We work with two dependent variables,  $Y$ , thus, we estimate two variants of equation 1. The first variable describes whether the male partner increased his share in housework (of the household) during the lockdown, the second depicts the increase in the male partner's involvement in childcare. The corresponding dummy variables are equal to one if the man proportionally took on more unpaid work during the lockdown, but it does not indicate how much more unpaid work this corresponds to than before the lockdown. Thus, the hours corresponding to the male part of the couple "doing more than before" can vary to a large extent in terms of hours. In other words, in this definition, every increase in the male partner's involvement in HW or CC counts equally, regardless of the corresponding hours. As we are interested in whether WFH changed the pre-lockdown division of unpaid work, conditional on covariates, we consider this to be the appropriate specification. The main explanatory variable hence is working from home (WFH), a factor variable measuring whether both, none, only the woman or only the man of the couple was WFH during the lockdown. In addition, we control for the division of unpaid work before the lockdown (D) and other household and individual characteristics (X), specifically relative income of partners, age, highest level of education completed, employment status, full-time or part-time work, and the number of children and age of any children living in the household.

## 3 Results

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In this section we present the results of the descriptive and econometric analysis and we discuss the findings in more detail.

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### 3.1 Descriptive results

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This subsection presents the descriptive results of two overlapping spheres: the experience of WFH while coping with the increased demand for unpaid work (see section 3.1.1) and its division during the lockdown (see section 3.1.2). We reveal how the blurring of boundaries between the public and private domains and between work and family responsibilities have distinct implications on different types of households and genders.

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#### 3.1.1 Working from home during lockdown restrictions

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As stated in chapter 2.1, the legal basis to WFH whenever it was *feasible* was enacted and communicated by the Austrian government starting in March 2020. Since most facilities, especially public spaces (like schools, universities, public buildings, libraries, restaurants, etc.) were closed, the term feasible was interpreted as *strongly advised* for workers in “non-critical infrastructure” (i.e. outside of supermarkets, elderly homes, hospitals, etc.). Especially with childcare facilities being closed and meeting up with friends and family being forbidden, Austrians spent most of their days at home. WFH during the lockdown therefore cannot be compared with WFH in non-pandemic and non-lockdown times. However, even by the end of 2020, no legal agreement on how WFH should be implemented was enforced in Austria. This implies that most employees had to manage WFH on their own from the beginning, but with few guidelines from their employers.

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WFH entails both advantages and disadvantages. The most propagated benefits are not having to commute every day and an easier reconciliation of family and (paid) work. At the same time, contact with supervisors, managers or colleagues might be more limited. Another potential drawback is the blurring of boundaries between paid work and leisure time. In the survey, the respondents had to evaluate their current WFH situation by answering a set of questions. The corresponding questions covered different aspects, such as advantages and disadvantages of WFH, different forms of childcare when WFH and the quality of working time and their workspace at home. The respondents had to report how much they agreed or disagreed with statements on the quality of and their experience with WFH. They had to “Strongly agree”, “Somewhat agree”, “Somewhat disagree” or “Strongly disagree” with each of these statements. 419 respondents living in couple households without children and 330 respondents living in couple households with children (younger than 15), who worked either fully or at least partially from home answered these questions. In this section, we focus primarily on couple households with children under 15 years of age. The findings are shown in Fig. 1, which captures the average agreement with different statements for fathers and mothers separately. The smaller the distance on the axis to the centre, the more the respondents disagree with the statement. To inverse the stereotypical colours of the sexes, blue areas represent answers from women and pink areas represent men’s

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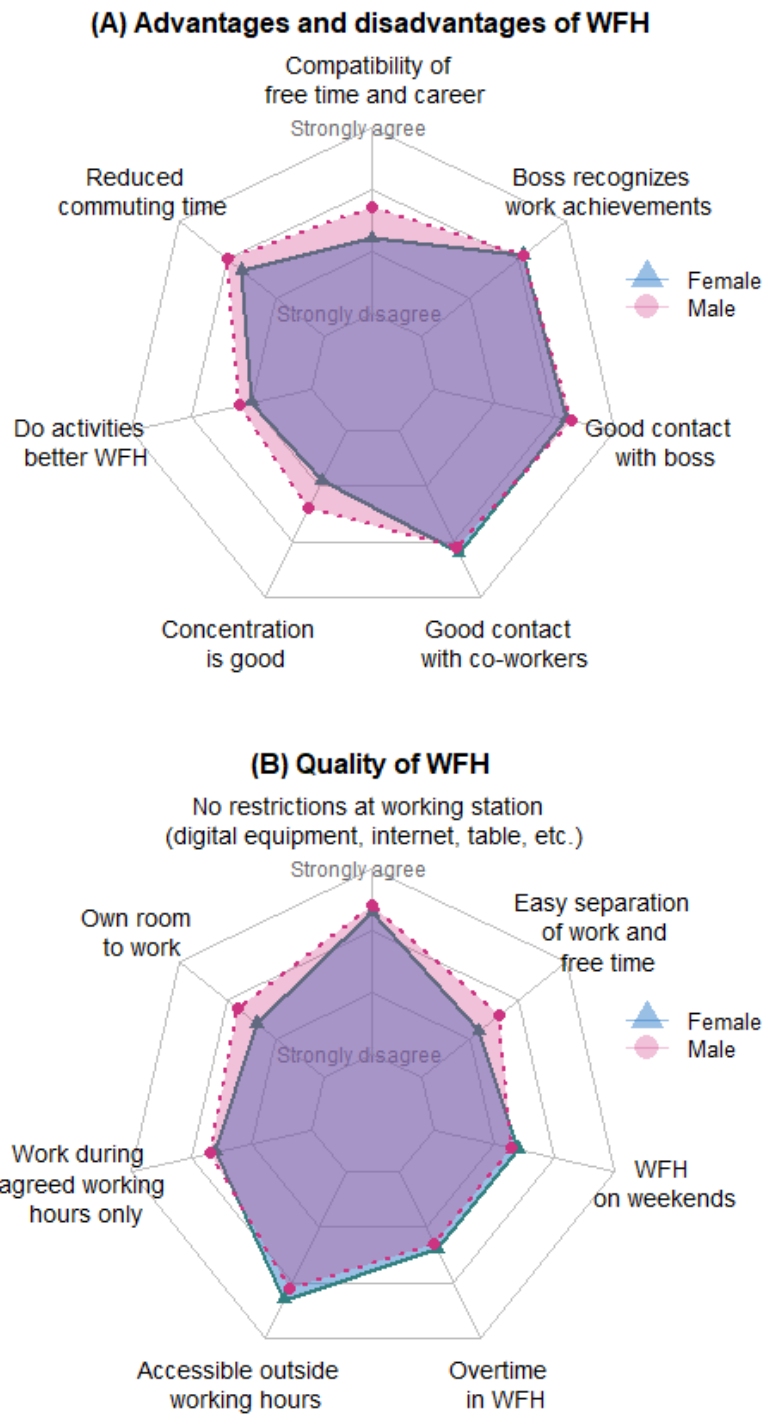
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responses. We find apparent gender-specific differences in couple households with children, which interestingly almost vanish in couple households without children (see Fig. S1). Hence, the presence of children seems to make a vast difference in assessing the quality and (dis-)advantages of WFH.

Turning to the specific advantages and disadvantages of WFH, Fig. 1A shows that mothers (blue area) in couple households with children found it more difficult to concentrate while WFH, to complete tasks better at home than at the office and to reconcile work and family life. Fathers (pink area) found these aspects on average easier than mothers. By contrast, communication with supervisors, the supervisor's recognition of their work performance, as well as contact with colleagues does not show any systematic relationship by gender. The results of the indicator on the quality of working time and of the workspace are shown in Fig. 1B. The most striking gender differences concern the workspace and the separation of work from leisure time. Fewer mothers (blue area) had their own room to work from, where they could close the door, compared to fathers (pink area). Furthermore, we find that, on average, slightly more mothers worked outside the agreed working hours: more mothers stated that they were accessible outside their agreed working hours, worked overtime and also at weekends.

Fig. 1. Average agreement with statements on WFH from couple households with children younger than 15 years by gender

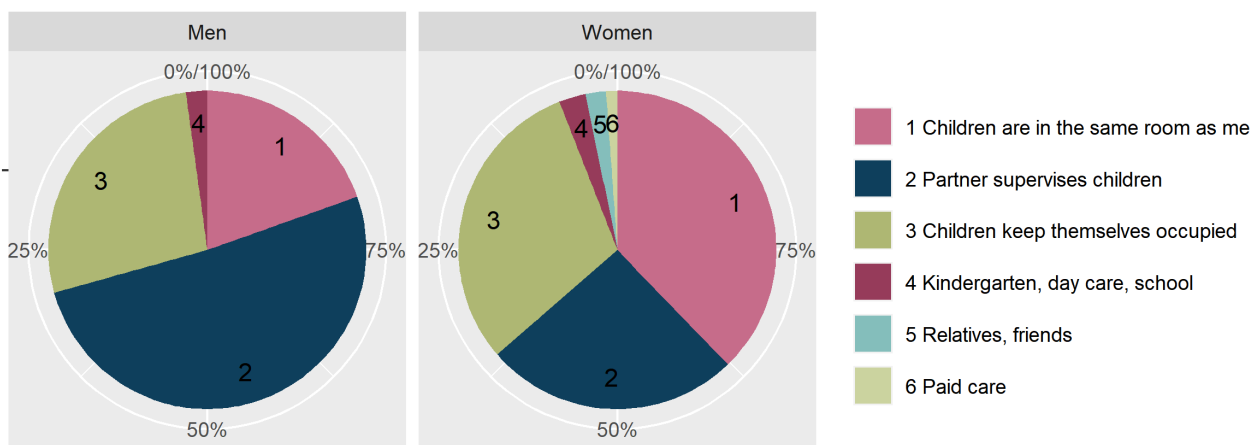


*Reading example:* This radar chart displays the average agreement with different statements on WFH. The smaller the distance on the axis to the centre, the more the respondents disagree with the statement. Blue triangles represent answers from women, pink circles represent men’s responses. An example: on average, men (pink area) found “compatibility of free time and career” to be more true than women (blue area).

Combining childcare and WFH during the lockdown was a difficult – and sometimes even unfeasible – task. Fig. 2 displays different forms of childcare available while WFH by gender. Among the 529 female respondents with children under 15 years, 25% of mothers stated that their partner took care of the children during their (paid) working hours, 30% reported that the children took care of themselves, while 38% stated that they supervised the children in the same room while working. However, 51% of men reported that their partner was looking after the children, 27% that the children were keeping themselves busy and only 19% stated that they were supervising their children in the same room. These results might at least partially explain why women have more difficulties concentrating on their work compared to men, as they are more likely to supervise their children in the same room.

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Fig. 2. Main childcare arrangement during working hours by gender



*Reading example:* The pink area (1) indicates the share of respondents who stated that they supervise their children in the same room while WFH. 38% of all women reported that they had to look after the children and work simultaneously, while only 19% of all men had to share their workspace with their children.

Overall, the results show that WFH is experienced differently by mothers and fathers. Since we only find minimal differences between the genders for households without children under 15 years old, we conclude that childcare is the most influential factor explaining difficulties in working from home. This is confirmed by an additional analysis, which shows that mothers find it more challenging than fathers to reconcile family and work and more commonly express feelings of guilt for neglecting their paid work and/or their children (see Fig. S2). A likely explanation for this is the struggle for women to combine the demands of the professional world with their role as the primary caregiver, as gendered responsibilities still largely prevail in Austria.

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### 3.1.2 Division of unpaid work

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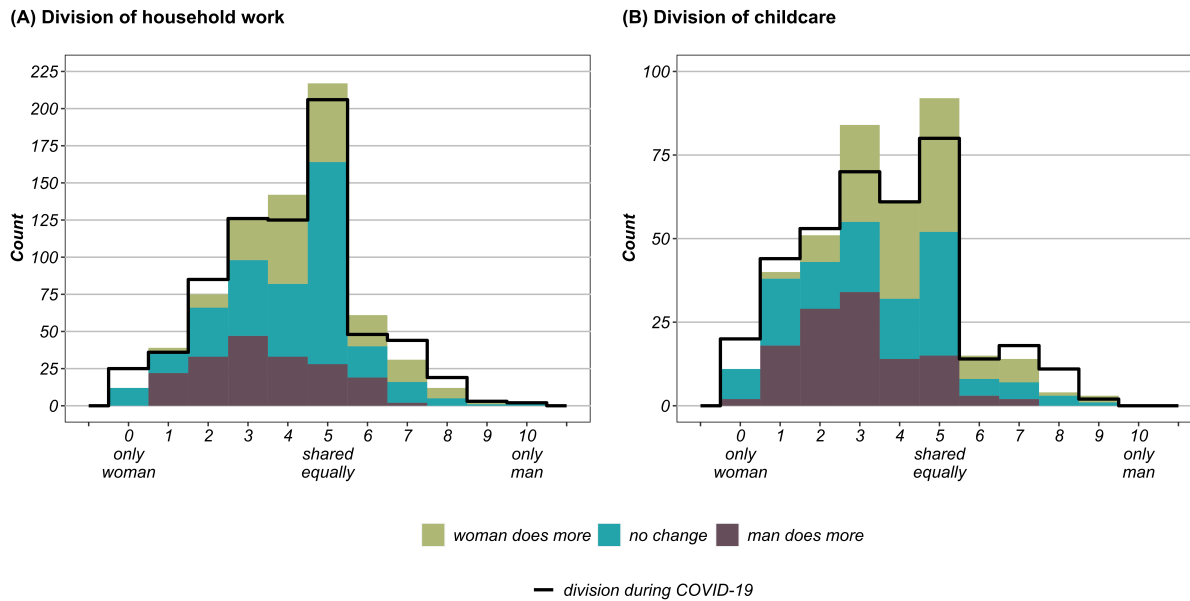
The conservative attitudes towards gender roles in Austria are also reflected in the unequal division of unpaid work. Missing information on time use before the pandemic prevents us from comparing absolute changes in hours

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spent on different activities before and during the COVID-19 lockdown. However, we asked respondents how they and their partner spent the previous working day during the lockdown (see Tab. S3). The results reveal that women in working couples spend, on average, almost two hours more on unpaid work than men (3h59 compared to 5h53) per day. The average time spent on unpaid work by women amounts to 6h43 compared to 7h53 for men. This shows that unusual times do not translate into unusual time use by gender.

Respondents also had to evaluate the change in division of housework and childcare between both partners, before and during the stay-at-home orders. This enables us to analyse which partner primarily carried out which chores and whether the lockdown changed the division of work. Fig. 3 reveals this division of unpaid work in couple households. The height of each bar refers to the number of couples per value on the 11-point scale during the lockdown and the breakdown of the bars by colour and category shows the number of couple households that indicated “The woman does more during lockdown” (green), “Nothing changed” (blue) and “The man does more during lockdown” (grey-purple) compared to before the lockdown for each value on the 11-point scale.

**Fig. 3. Division of housework (A) and childcare (B) before COVID-19 and subsequent changes during lockdown.**



*Reading example:* The height of the bars indicates the division of unpaid work before the lockdown. Regarding childcare (B): before the pandemic 92 couples shared childcare equally (scale no. 5) and for 37 nothing changed (blue bar). In 40 couples the female partner took on a larger share during the lockdown compared to before (green bar), whereas the opposite (male partner took on a larger share) holds true for the remaining 15 couples (grey-purple bar). Moreover, the black line indicates the division of unpaid work during COVID-19. At scale no. 5 for instance, it shows that fewer couples shared childcare equally during the lockdown compared to before the pandemic (81 compared to 92).



Fig. 3A reveals three aspects: first, it shows that the distribution of housework is right-skewed on the 11-point scale. Prior to the lockdown, in 55% of all couple households women did the majority of housework (scale nos. 0–4), while it was equally divided in 30% of couples. In 15% of cases, the male partner was mainly responsible for doing housework before the outbreak of the pandemic. Hence, the data show that the division of housework complies with traditional gender roles in the majority of the observed couples. Men in couple households who spend more time on housework than their female partner are still an exception. Second, the solid black line indicates the division of housework during the COVID-19 stay-at-home orders. In comparison to the division before COVID-19, the data reveal a slightly more polarized distribution. What stands out is that the number of households where the woman does everything roughly doubled from 12 (before) to 25 (during) cases. Nonetheless, the lockdown measures did not alter the overall distribution much. Third, we examine the changes within couple households. The colours of the bars shown in Fig. 3A depict those changes. In almost half of all households (47%), the division of housework did not change. In 27% of all couples, women took on a larger share of housework during the lockdown than before. The share of couples where men increased their share amounts to 26%. Two findings stand out in this respect: first, in households where the division of housework was traditional (scale nos. 1–3) before COVID-19 and changed during the stay-at-home orders, the division became more equal (i.e. men increased their share). Second, we observe a tendency towards retraditionalization of gender roles in households where housework was equally shared (scale no. 5) before the pandemic. No change occurred in 63% of households that shared housework equally. In couples where the division of housework did change, a retraditionalization (i.e. females doing now a larger share than before) occurred in two out of three households.

The division of childcare is shown in Fig. 3B. Again, we observe a right-skewed distribution, indicating an unequal division of childcare. In comparison to housework, the division of childcare is more unequally divided. Before the COVID-19 restrictions, the main provider of childcare was women (66%). One in every four couples stated that childcare was equally shared between partners. Role reversal (i.e. fathers being the primary caregiver) is the exception (10%). During the pandemic, the distribution of childcare became slightly more polarized, but the overall distribution did not change significantly. Women still bore most of the childcare responsibilities, also during times of school closures. What is striking is that also for childcare, the amount of households where women were the sole caregiver (scale no. 0) almost doubled during the lockdown from 11 to 20. At the same time, there is no household (before or during the pandemic) that reports that the man does or did all the childcare. Regarding within-couple changes, we find that changes are more dynamic in the case of childcare compared to housework. The division remained unaltered in 36% of couples. If changes occurred, these were again almost equally split between men doing more (31%) and women doing more (33%). The findings concerning changes to the division of housework also hold true for the division of childcare: men whose share of childcare was relatively low beforehand (scale nos. 1–3) mostly increased their share during the pandemic, whereas when childcare responsibilities were shared equally before COVID-19 (scale no. 5), a retraditionalization of gender roles can be observed. This is also the case

when women did slightly more than 50/50 (scale no. 4) before the lockdown. 580

To summarize, we find that the pandemic did not substantially change 581  
the *overall* division of housework and childcare between men and women. 582  
In general it is still the case, that women bear on average more unpaid 583  
work than men. Nevertheless, for the majority of couples the measures to 584  
reduce the spread of the COVID-19 disease had (at least) little effects on 585  
the division of unpaid labour *within* the household (53% for housework and 586  
65% for childcare). The descriptive analysis further suggests that whether 587  
couples moved towards a more gender-equal division or not seems to depend 588  
strongly on the initial division of unpaid and paid work before the pandemic. 589  
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### 3.2 Regression results 591

The descriptive results presented in the previous subsection show how couple 592  
households divided the burden of unpaid work at the expense of women. 593  
In this section, we explain the change in the division of housework and 594  
childcare during as compared to before the lockdown. Thus, Table 1 shows 595  
the results of the logistic regressions on the probability that the share of 596  
housework and childcare done by the man of a heterosexual couple was 597  
higher during the lockdown than before. We focus on households with 598  
children younger than 15, as older children are usually not as care-intensive 599  
as younger ones. 600

**Model (1)** explains the change in the division of housework. The binary 601  
dependent variable indicates whether the male partner took on (at least 602  
marginally) more housework than before. All heterosexual couples where 603  
both partners are either employed, self-employed or in short-time work and 604  
with full information on all covariates are included in the regression sample 605  
( $n=559$ )<sup>15</sup>. 606  
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**Model (2)** checks whether the effects of the explanatory variables on 609  
the probability that a man took on more housework during the lockdown 610  
are different for couples with children younger than 15. The dependent 611  
variable is the same as in model 1, however, the sample is different as couple 612  
households without children under age 15 are excluded ( $n=300$ ). 613  
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**Model (3)** explains the change in the division of childcare tasks (CC). 615  
The binary dependent variable equals one if the father took on (at least 616  
marginally) more childcare than before the restrictions. The sample is the 617  
same as in model 2 ( $n=300$ ). 618  
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We find a positive and significant effect on the probability that men took 620  
on a higher share of housework than before the lockdown in the event that 621  
both partners were WFH compared to the reference group where nobody 622  
was WFH (see model (1) in Table 1). The effect of WFH is even larger 623  
when only the male partner worked from home. Moreover, these effects are 624  
also highly significant for households with at least one child younger than 625  
15 years (see model (2) in Table 1). However, in both samples (model (1) 626  
and (2)), we do not find any significant effects on the probability of men 627  
doing relatively more housework than before in the event of only the female 628  
partner was WFH. Model (3) shows the results for the probability of men 629  
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increasing their share of childcare tasks. We find no significant effects of both parents WFH or solely the mother WFH. The effect of only a father WFH, by contrast, is positive and significant. Thus, there are two main results of the effect of WFH on the change in the division of unpaid work. First, we find a higher probability of men doing relatively more housework than before if both partners or only the male partner are WFH. Second, the effect is larger for childcare if fathers are WFH alone, but vanishes if mothers are also (or solely) WFH.

As a robustness test (see model (4) in Table S4), we estimate a model based on the sample of couple households without children only, and in this case, all coefficients of WFH turn insignificant. In other words, we do not find evidence that WFH influences the probability of men increasing their share of unpaid work within childless households. This also indicates that the effects of model (1), based on households with and without children, are driven by households with children, where either men do more housework if both parents are WFH (but not more childcare), or fathers take on more housework (and childcare) if they alone are WFH. As long as mothers are at home, childcare seems to be mostly their responsibility, whereas fathers are more likely to take on more household chores instead. There are several potential factors that might drive this finding. In principle, it could be that those households initially had a more unequal pre-lockdown division of unpaid work. However, we control for the pre-lockdown division of housework and childcare. The results may also be explained by a gendered specialization for certain household tasks. Some studies [18, 30] show that men’s share in grocery shopping increased during lockdown. The authors’ explanation for the increase in time devoted to shopping by men is that this is an easy task, but a task that also carries a certain risk of infection. Our results can also be interpreted as a change in the task specialization by gender, to some extent. We find that both parents or only the mother WFH does not alter the probability of men taking on more childcare tasks, but it does have an impact on housework (if both partners are at home). This indicates that especially childcare is still strongly separated into traditional gender roles, even during (or rather also in) times of crisis.

With respect to the pre-lockdown division of housework and childcare, we find a significant and substantial effect on the probability of men taking on a higher share of unpaid work during the COVID-19 restrictions. The corresponding variable is a categorical variable, derived from a ranking of the female/male share of housework (HW) or childcare (CC) responsibilities as described in section 2.3. We include the pre-lockdown division of HW only in the regression explaining the change in the division of HW (model (1) and (2)), and the pre-lockdown division of CC only in the regression explaining the change in the division of CC (model (3)). Men and women who indicate an equal division of tasks serve as the reference group in the regressions. We find a both significant effect of women being primarily responsible for HW and CC before the lockdown (compared to the reference group with an equal division of these tasks) on the probability that the male partner does more HW and CC during the restrictions. The effect is larger for couples where the woman took on (i) *much more* unpaid work than her partner, compared to households where the woman did just (ii) *moderately more* housework and childcare tasks. This finding indicates that it is relatively “easier” for men to do at least a little bit more of unpaid work during the lockdown restrictions when they initially fulfilled none or only a few tasks. The results

hold true for all definitions of the sample (i.e. all couple households, couple households with children younger than 15 years, couple households without children). We hence conclude that these pre-lockdown division effects stem from households with and without children. However, we find no significant effect on men taking on more housework if they already took on a higher share of unpaid work before the restrictions, which in general are rare observations. Overall, these results show that changes in the division of unpaid work during the lockdown are largely influenced by the pre-lockdown division of HW and CC, and that change in times of crisis is easiest for men in couples in which the woman formerly did most of the unpaid work herself.

**Monthly net income:** Bargaining models, especially the separate spheres approach [12], assume that the division of labour in couple households is the result of negotiations between the partners. Following this argument, the individual income of each partner represents a power resource that influences the division of labour. Therefore, the partner with the higher individual income and thus the higher share in total household income has more bargaining power and is able to influence the division of HW and CC in his/her interest. To control for such a mechanism, we include the relative income of the partners in the regression. The corresponding variable is a categorical variable, with three categories: both partners have equal income (reference group), the female outearns the male, or the male outearns the female partner. We find a significant and positive effect of the female partner having a higher income on the probability of men doing more housework than before the lockdown. This also holds true for the subsamples consisting only of households with and without children. The results presented here suggest bargaining power as an underlying mechanism: if women earn more than their partners, their respective power (represented by income) transfers onto other fields of negotiation as well, such as division of unpaid work. However, we do not find a positive effect of higher female income on the change in the division of CC. On top of that, we find that if men earn more than their female partners, the probability of men doing more housework rises (significantly) as well. At first, this may seem to be diametrically opposed to the theoretical prediction of bargaining power models, arguing that men should rather be doing less or the same amount of unpaid work if they hold more power (i.e. income). We explain this contradictory finding by the fact that households in which men outearn women are for the most part couples whose pre-lockdown division of unpaid work was already very unequal. Thereby, bargaining power could have determined the division of housework before the pandemic hit in male breadwinner households. Stated differently, male income power does not play a role in determining their current levels of HW, but rather their pre-lockdown division of unpaid work. For women, the bargaining power argument seems to also play a small but significant role in determining current levels of HW. Childcare, however, appears to remain the mothers' responsibility, independent of bargaining power.

**Working hours:** Time-availability approaches [10] argue that couples face time pressure, and the partner spending fewer hours on paid labour will thus spend more time on housework. In model (1) we find no significant effect of working hours on the probability that the male partner takes on

more unpaid work. A separate regression, where we reduced the sample to childless couples (see again model (4) in Table S4), shows that this result stems from households without children. Based on the theory of time availability, we expected to find that male partners working fewer hours for pay would have a positive likelihood of taking on more unpaid work as they have more free time. A differentiated picture emerges in models (2) and (3), based on households with children younger than 15 years only. Male part-time work shows a positive and significant effect on the change in the division of HW and CC, while male short-time full-time indicates a negative and significant effect, and male short-time part-time is insignificant. Stated differently, we find a positive effect of fewer working hours for voluntary part-time fathers, but a negative effect for fathers who were forced to work fewer hours in their full-time positions. The positive effect of a man working part-time voluntarily might be driven by male selection into part-time. Those men might do so because they are willing to be actively involved in HW and/or CC. As the lockdown increased the burden of unpaid work, male involvement increased in response in these cases. With respect to the negative effect of male short-time full-time work (as compared to the reference group of full-time workers), the result can be interpreted as follows: in this group of workers, full-time work corresponds to any hours worked above 20 hours a week. As the lockdown increased the volume of unpaid work to be done within households, short-time full-time workers rather continued their role as primary earners while mothers continued their role as primary caregivers, which, under an overall increase of unpaid work, might imply that the share of unpaid work done by short-time full-time workers even decreases. This means that a change in working hours does not necessarily imply a change in involvement in unpaid work for this particular group. This is also reflected in the largely insignificant results on female working hours. Put differently, gender roles regarding the division of unpaid work do not automatically change due to fewer working hours. It seems that the majority of men do as much unpaid work as before the lockdown, conditional on their hours of paid work. The only exception is fathers voluntarily working part-time. As suggested by the gender display approach [13], norms play an important role in determining the division of work – also during crises.

**Number of children:** The number of children in different age categories seems to have an equivocal effect on the probability of men taking on more housework or childcare. Model (1) compares all couple households, regardless of the number and age of children. In this case, we assigned childless households zero children in each age group. In model (1), we find no significant effect of an additional child in any age group compared to no (or fewer) children within the same age group. In model (2) we find a weakly significant and positive effect on men taking on more HW with each (additional) child between 6 and 9 years of age, while in model (3) we find a negative effect on men taking on more CC with each (additional) child between 10 and 14 years of age. Even though the effects are weak, we interpret this to mean that children between 6 and 9 years old might represent a special age group, as they need more attention and support regarding homeschooling than younger or older age groups. More children between 6 and 9 years therefore means even more workload during lockdown, such that the probability of fathers doing more housework increases, probably

leaving the childcare to the mothers. Relatively more children between 10 and 14 indicates, that there are likely *older* children in this group compared with no or younger children of this age group. Older children might be more likely to manage the additional workload (e.g. homeschooling) themselves or even help their younger siblings. Overall, the absence of a clear and significant pattern points to the importance of persisting gender norms during the lockdown. The pre-lockdown division of unpaid work already depends (implicitly or explicitly) on the number of children within the household. That is to say, once we control for the pre-lockdown division of unpaid work, there remains no separate effect caused by the number and age of children.

We control for the age of the female and male partners, their highest level of education completed and their employment status in terms of being either employed (reference category) or self-employed. In model (1) we find no significant effect of the employment status on the probability of men taking on more HW than before the lockdown. Analysing the effect of the employment status on HW in separate samples of couple households with and without children (see model (2) and model (4) in Table S4), we do not find an effect among parent households, but a small and significant negative effect of male self-employment in the subsample of households without children. With respect to the change in the division of CC in model (3), both male and female self-employment has a negative and significant effect on the probability of fathers taking on more CC tasks. Both being negative suggests that different factors might be at play. For instance, the result might be driven by self-selection into self-employment based on the division of CC. Being self-employed frequently entails more flexibility, autonomy and the possibility to WFH, which facilitates reconciliation of work and family. This appears to be one reason why women with dependent children are more likely to be self-employed [31,32]. Thus, self-selection of mothers into self-employment for family reasons might explain the negative and significant effect of their partners being less likely to increase their share in childcare activities.

We only find a small positive and significant effect of female age on the probability that fathers take on more childcare, but it does not seem to play a significant role in any other model. Finally, there is no significant effect of education on the probability of men taking on more unpaid work during lockdown restrictions. Characteristics and structures defining the pattern of change in the share of unpaid work carried out by males are embodied in other variables, such as income or WFH. These are factors that explain the independent variable (of men doing more unpaid work) better than education categories, *ceteris paribus*.

### 3.3 Robustness tests

We provide an extensive set of robustness tests in the supporting materials (see section 6 for a detailed discussion). These checks alter the definition of the sample, control for the gender of the respondents, and are based on different specifications of the control variables and the dependent variable. In addition, we present the results of the main models based on a linear probability model, estimated by ordinary least squares. Stressing the

most important findings of these tests, first we find that the change in 838  
the probability of a male taking on more housework is driven by couple 839  
households with children. Second, different specifications of the income, 840  
age, and working hours variables do not alter the results, while the cutoff 841  
for classifying individuals as working either part-time or full-time matters. 842  
Third, overall these tests do not alter the results presented in the main 843  
text in any unexpected way. Hence we conclude that the main results are 844  
robust. 845



**Table 1. Average marginal effects of logistic regressions**

	<i>Dependent variable:</i>		
	more HW: ♂ (1)	more HW: ♂ (2)	more CC: ♂ (3)
WFH: both	0.15 (0.07)**	0.19 (0.10)**	0.11 (0.10)
WFH: only ♀	0.11 (0.10)	0.06 (0.15)	-0.05 (0.12)
WFH: only ♂	0.23 (0.12)**	0.42 (0.14)***	0.30 (0.12)**
WFH: nobody (= ref)			
HW before: ♀ more	0.17 (0.05)***	0.15 (0.06)**	
HW before: ♀ much more	0.32 (0.06)***	0.33 (0.08)***	
HW before: ♂ (much) more	0.07 (0.07)	0.14 (0.11)	
HW before: equal (= ref)			
CC before: ♀ more			0.21 (0.06)***
CC before: ♀ much more			0.36 (0.07)***
CC before: ♂ (much) more			0.03 (0.12)
CC before: equal (= ref)			
Higher income: ♀	0.17 (0.07)**	0.21 (0.11)**	-0.01 (0.10)
Higher income: ♂	0.09 (0.04)**	0.11 (0.06)*	0.06 (0.06)
Equal income (= ref)			
Working hours ≤20h: ♀	0.01 (0.05)	-0.01 (0.06)	-0.11 (0.06)*
Working hours ≤20h (ST): ♀	-0.01 (0.08)	0.01 (0.09)	-0.03 (0.09)
Working hours >20h (ST): ♀	-0.13 (0.15)	-0.18 (0.11)*	0.05 (0.22)
Working hours >20h: ♀ (= ref)			
Working hours ≤20h: ♂	0.16 (0.10)	0.35 (0.13)***	0.46 (0.09)***
Working hours ≤20h (ST): ♂	0.06 (0.09)	0.03 (0.10)	0.14 (0.11)
Working hours >20h (ST): ♂	0.01 (0.10)	-0.19 (0.09)**	-0.24 (0.10)**
Working hours >20h: ♂ (= ref)			
Self-employed: ♀	-0.06 (0.06)	-0.09 (0.08)	-0.19 (0.07)***
Employed: ♀ (= ref)			
Self-employed: ♂	-0.08 (0.05)	-0.05 (0.07)	-0.18 (0.07)***
Employed: ♂ (= ref)			
No. children 0 – 2 years	-0.05 (0.05)	0.03 (0.07)	0.05 (0.07)
No. children 3 – 5 years	-0.06 (0.04)	-0.02 (0.05)	0.05 (0.06)
No. children 6 – 9 years	0.06 (0.03)	0.09 (0.04)*	0.00 (0.05)
No. children 10 – 14 years	-0.06 (0.04)	-0.09 (0.06)	-0.17 (0.07)**
Age: ♀	-0.00 (0.00)	0.01 (0.01)	0.02 (0.01)**
Age: ♂	0.00 (0.00)	0.00 (0.01)	0.00 (0.01)
Educ. ♀ : Higher sec.	0.02 (0.06)	0.00 (0.08)	0.09 (0.08)
Educ. ♀ : Lower sec.   prim.	-0.04 (0.07)	0.01 (0.10)	0.16 (0.11)
Educ. ♀ : Tertiary (= ref)			
Educ. ♂ : Higher sec.	0.02 (0.05)	0.00 (0.06)	0.06 (0.06)
Educ. ♂ : Lower sec.   prim.	-0.00 (0.06)	-0.02 (0.09)	-0.09 (0.08)
Educ. ♂ : Tertiary (= ref)			
Observations	559	300	300
Log likelihood	-299.90	-148.58	-152.99
AIC	653.81	351.15	359.98
BIC	770.61	451.16	459.98

\*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$

Note: WFH=working from home; HW=housework; CC=childcare; ST=short-time

## 4 Limitations

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First, we stress that it is necessary to interpret the findings in the context of the specific circumstances of the lockdown, specifically, the shift towards WFH in combination with the closure of childcare facilities and schools. It remains an open question how couples would have allocated unpaid work and experienced WFH if childcare facilities and schools had been open. Second, the average marginal effects of the main variables of interest (WFH and the pre-lockdown division of housework and childcare) on the change of within-household division are robust to different specifications and both statistically significant and large in magnitude. However, the standard errors of most of the control variables (the number of children per age group, age, education and employment status of both partners) are large. We interpret this in the sense that these controls have no considerable additional effect on the change in the division of housework and childcare once WFH, the pre-lockdown division of unpaid work and the hours worked for pay are taken into account. Third, we emphasize that the dependent variable depicts the change in the division of unpaid work, and not the change in hours spent on childcare and housework, respectively. An increase in male involvement in housework, may (and on average does) imply that women still spend more hours on unpaid housework. Finally, the sample is not representative of the Austrian working population. Compared to the population, it includes a disproportionately high number of individuals with a tertiary qualification. However, this is the group of couples that had to WFH more frequently than those with primary or secondary qualifications, who work more often in sectors considered “critical infrastructure”. Thus, the sample stresses the change in the household division of unpaid work in the group of highly educated couples. As higher educational attainment is often associated with increased gender egalitarianism [33], we interpret the results rather as upper bounds of the involvement of males in HW and CC. The reason may be that constellations of *she* working part-time, and *he* being the primary earner might be more common among couples where neither partner has completed tertiary education [34].

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## 5 Conclusion

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In recent years, social scientists [27, 35, 36] have discussed the potential effects of WFH on the reconciliation of family and work. This debate was reopened following the COVID-19 pandemic that forced many individuals to WFH. While some argued that men would increase their share of unpaid work during the pandemic, others argued that gender roles and the gendered division of labour would intensify. To the best of our knowledge, we present the first study that closely examines the gendered aspects of the COVID-19 crisis in the overlapping spheres of paid and unpaid work and that explains the (change in the) division of unpaid work in couple households as a result of WFH. While pre-COVID-19 studies on the effects of WFH on the division of unpaid work suffered from selection bias, we have been able to investigate this effect by drawing on the very strict (and exogenous) lockdown. Even though the data employed is not representative of the Austrian working population, it focuses on the parts of the population most likely to be able to WFH during the lockdown, and it contains rich information on the division of unpaid work and the experience of WFH. A key strength of this study

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is that it focuses on couples instead of individuals, thus offering unique insights into the division of work within households in relation to both partners' characteristics. In addition, while several studies documented the division of unpaid work during lockdowns, we are able to focus on how it *changed* during these extraordinary circumstances. This allows us to test whether a retraditionalization of gender roles can be observed in Austria, a country where conservative gender norms are predominant. We want to stress that the results show how couple households coped with the situation of WFH and unpaid work during the lockdown, but the findings cannot be transferred to WFH under "normal" conditions, with childcare institutions and schools being open.

The descriptive results reveal that unpaid work, especially childcare, has not been equally distributed within most couples either before or during the lockdown. The results from the econometric models indicate that men proportionally took on more housework during the lockdown than before in the event that both partners were WFH, or in the event that men were WFH alone (compared to those couples where nobody was WFH). Yet, this does not imply that men on average did more housework than their female partners in absolute terms, but simply that they took on a bigger share than before the COVID-19 crisis. While the econometric results do not provide information about how much more or which kind of housework was done by male partners, the descriptive results indicate that the steps towards a more equal distribution of unpaid work have been rather small. The descriptive analysis also shows that in households where the man's share of housework was very low before the lockdown, the division became (at least a little bit) more equal, whereas we observe a tendency towards a more traditional division of gender roles in households where housework was shared equally before the pandemic. This pattern is also confirmed in the econometric analysis. Furthermore, we do not find a significant effect of both partners WFH on the probability that fathers took on more childcare responsibilities than before the pandemic. This was only the case for couples where fathers were WFH alone. In addition, we find a significant effect of relative income differences on the probability that men take on more housework, whereas this does not seem to play a role for childcare. Strikingly, the results overall indicate that the division of childcare tasks is even more rigid than the division of housework. Given the massive increase in the volume of unpaid work due to the lockdown, one might have expected a more equal and even stronger involvement of males during these extraordinary circumstances.

WFH brings advantages and disadvantages for workers, but we find that they differ strongly by gender and household type. Working from home during the lockdown was very challenging, especially for mothers with children under 15 years. Mothers were more likely to find themselves stressed, working overtime, at weekends and with blurred boundaries between work and family time. Fathers were more likely to state that their concentration at home was good and that they had their own room to work from. When couples without children were asked about their experiences with WFH, the gender gaps almost vanished: both halves of the couples regard WFH as average equally good or bad. These findings are also reflected in the results of mothers feeling guilty for neglecting both their children and paid work.

We rather confirm than reject the notion that gender roles prevail during

unusual times. The division of responsibilities for childcare tasks and the right “to work undisturbed” is not divided equally within couples. Primarily mothers had to watch the children during their working time, with fathers more often being able to rely on their partners doing that. WFH should therefore neither be regarded as a promising and automatic instrument to improve the reconciliation between family and career, nor as a way to promote more gender equity. Even though it might help some families to better reconcile childcare and work, WFH during times where childcare facilities are closed puts more burden on mothers than fathers. As the sample focuses on well-educated, working couples in urban areas, the actual situation might even be more conservative and traditional than in this analysis. Therefore, the results should be regarded as “lower-bound” effects.

The findings, nevertheless, are a good reference point for policies that question current conceptions of work and that aim at promoting gender equality. Despite the data underlying this study being collected during unusual times, they provide valuable insights. WFH is often said to be a promising tool to improve the reconciliation between work and family life. As this study has shown, this does not hold true during hard lockdowns. Thus, the results further highlight the importance of the expansion of high-quality and affordable childcare facilities to ensure more gender equality at home and in the labour market. By providing institutional and publicly funded childcare, welfare states enhance gender equality, counteract dependencies within couples by facilitating full participation in the labour market and also improve the chances of children – especially from households that are economically worse off. Beyond the institutional setting, it is also worth highlighting the importance of promoting more equitable gender norms. Ideally this would start in kindergartens and schools, but should also expand to other settings, such as businesses, etc.

Finally, we can conclude that no automatic change comes out of crisis, and that nobody “lived happily ever after” without additional effort. In fact, we want to stress that *home* could be much *sweeter* for (working) mothers if they could rely on a more equitable division of unpaid work, especially in difficult times when the volume of unpaid work increases. That is to say, regarding the highly gendered specialization of tasks, in particular childcare, we need to include men, if we *all* want to be better off in the future.

## Notes

<sup>1</sup>We define a lockdown as a “period of time in which people are not allowed to leave their homes or travel freely, because of a dangerous disease, accompanied by the general order to stay-at-home” [37].

<sup>2</sup>For instance, as of March 10 2021, the National Bureau of Economic Research has published 375 working papers on COVID-19.

<sup>3</sup>The gendered labour market effects of lockdowns, for instance, depend on the specific restrictions in relation to the sectoral composition of the economy, and the sectoral composition by gender in particular. Early studies on the US, the UK, Australia and Spain have shown that women were disproportionately affected by job loss, short-time work and reduction of working time [18, 38–41] in the first months of the pandemic. However, in Austria and Germany unemployment and short-time work hit women and men to a similar extent in the first weeks of the pandemic (March to May 2020), while male employment recovered quicker than female employment in the second half of the year [42, 43]. Yet even in the latter countries, gendered effects of the pandemic were noticeable early on: studies for Germany [43] have shown that the reduction in minor employment, which is not covered by unemployment insurance and short-time work schemes, was disproportionately notable for women.

<sup>4</sup>These are individuals working outside *essential* sectors, such as grocery stores and healthcare that were not shut down during the pandemic. Importantly, the definition of “essential”, and correspondingly, of “non-essential”, varies by country, in the sense that the sectors regarded as “essential” and unaffected by lockdown measures differ across countries.

<sup>5</sup>The expression “home office” is used to describe WFH in Austria.

<sup>6</sup>The emergency ordinance BGBI. II Nr. 108/2020 declared that “professional activity should preferably take place outside the workplace”.

<sup>7</sup>We refrained from surveying time use before the lockdown for the following reasons: first, several studies show that the respondents’ memory of past events decreases with the time gap between the reference period and the timing of the interview, that is, recall bias increases. Reliable answers on pre-lockdown time use are unlikely, as their last working day was at least four to five weeks before the survey was released. Second, as filling out a time use model on a working day before the lockdown involves the provision of mental capacities and time of the respondents, we expected that the share of attrition, that is, the share of respondents not filling out the entire questionnaire, would be much higher in that case. In addition, it might have decreased the accuracy of answers to questions following the time use module substantially. Hence, the gains of the module might not outweigh the effort costs of the respondents finishing the survey properly. Especially when, third, respondents were surveyed online (not via face-to-face interviews) and preferably had to report time use of their partners as well.

<sup>8</sup>LimeSurvey is an online software tool for user-friendly implementation of different types of online surveys. For more info please visit the *LimeSurvey manual*.

<sup>9</sup>These groups were selected on the basis that we expected a high share of WFH women to be members there.

<sup>10</sup>We exclude all same-sex couples, as their number in the sample is too small to allow for valid statements.

<sup>11</sup>Respondents who worked partially from home were assigned to the WFH group as well. In a robustness check, we excluded respondents who were WFH partially (see Table S5), but the main regression results are not affected by this change in the sample.

<sup>12</sup>In the case of the respondent’s own net income, for example, these brackets range from “less than 6 e00” to “more than 8 e, 000”

<sup>13</sup>We divided the sample into tertile categories of net income in order to differentiate between couples in which both partners earn roughly the same (i.e. the reference group), and couples in which either the female or the male partner has higher monthly earnings.

<sup>14</sup>The short-time work scheme in place while the survey was in the field allowed a reduction of working hours up to 90%.

<sup>15</sup>The number of observations used in the regressions is lower than the target sample of 730 couples due to missing values, especially the income variable.

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## Supporting information

**Fig. S1.** Average agreement with statements on WFH from couple households without children

**Fig. S2.** Agreement with statements on reconciliation of family and WFH by gender

**Tab. S1.** Survey sample size and key variables

**Tab. S2.** Division of unpaid work before and during the lockdown

**Tab. S3.** Average time spent per activity during the lockdown by gender

## 6 Robustness tests

We conduct a series of robustness tests to check whether the results presented in the main text are robust in terms of (A.i) the sample definition, (A.ii) controlling for whether the questions on time use and characteristics of a partner were answered by a male, (A.iii) different definitions of the control variables, and (A.iv) modified definitions of the dependent variable. In section (A.v) we present the results of models presented in the main text based on a linear probability model, instead of a logistic regression. Note that, as we present average marginal effects, this serves as an indirect validation of the average marginal effects.

### A.i Sample

In the main text, we work with two different samples. From the overall sample of 730 heterosexual couples (1,460 adult individuals), we selected the couples living in the same household, where both partners were either (self-)employed or in short-time work at the point when the survey was answered, and who answered the partner module of the questionnaire or linked their responses via anonymous partner IDs. Due to missing information, mainly the income variable, the resulting sample corresponding to model (1) of the main text consists of 599 couples. In models (2) and (3), this sample is reduced to the 300 couples with children under 15 years of age.

Model (1), explaining the change in the division of housework, is based on a sample consisting of households with and without children. Model (4) presented in Table S4 is based on a sample of households without children. Thereby, we can check whether the results presented in the main text are driven by households with or without children. The effect of WFH is insignificant in model (4). Thus, we do not find evidence that WFH influences the probability of men increasing their share of unpaid work in childless couple households. In other words, we do not find evidence that WFH influences the probability of men increasing their share of unpaid work within childless households. This also indicates that the effects of model (1), as presented in the main analysis, and based on households with and without children, are driven by households with children, where either men do more housework if both parents are WFH (but not more childcare),

or fathers take on more housework (and childcare) if they alone are WFH.

In an additional robustness check (see Table S5), we excluded individuals who worked only partly, and not entirely, from home, which does not have a significant impact on the results.

### **A.ii Controlling for the gender of the survey respondent**

This check concerns the fact that 78% of the couple questionnaires were filled out by women. Therefore, we test whether the main results change if we control for the gender of the respondent by including a binary variable which takes the value one if the questionnaire was filled out by the male partner (see Table S6). In fact, this variable is highly significant for housework but not for childcare tasks. Moreover, the probability that men take on more housework is no longer significant for the whole sample. This is, however, no surprise as Table S4 already revealed that this effect is driven by households with children.

### **A.iii Variations in the specifications of the control variables**

The variable defining the relative income of the partners presented in the main text is based on categorical income variables. In Table S7 we employ a variable that is based on a subjective assessment of the income difference between partners. Respondents had to report the perceived difference from their partners (low, equal, high). In this robustness test, we make use of this variable. However, the results are not driven by the definition of the income variable and related measurement errors.

Furthermore, we alter the specification of the working hours variable. In one specification (see Table S8), we use continuous working hours instead of a categorical variable. Although the results for each additional hour worked are highly significant, they are small in magnitude. Thus, the effect of each hour is very small, confirming the results obtained by measuring hours worked for pay in categories. In a similar exercise, we vary the definition of part-time work. In the analysis presented in main text, respondents are classified as working part-time in the event that they worked fewer than 20 hours per week for pay. In the models presented in Table S9, those working fewer than 35 hours are classified as working part time. We find that men who work fewer than 35 hours a week without any short-time work arrangement have a significantly higher probability of taking on more housework and childcare during lockdown.

Controlling for age by means of age groups instead of a continuous definition (see Table S10), we detect no major changes in the results.

### **A.iv Variations in the definition of the dependent variable**

We check the possibility that the results are driven by the definition of the dependent variable. Thus, we change the dependent variable to a dummy variable indicating whether the *woman* instead of the *man* within

a couple took on more unpaid work during the lockdown. The results are presented in Table S11 and show that the main variable of interest – working from home – is not significant for this specification. Moreover, several other variables having a significant effect on the probability that the male partner within a couple takes on a greater share of unpaid work have no significant effect on the probability that a woman takes on more housework or childcare tasks (such as income and employment status). The only variable that remains highly significant is the pre-lockdown division of unpaid work. We conclude that the unequal division of unpaid work prior to the COVID-19 restrictions and the prevailing gender norms associated with it appear to be the most important predictor.

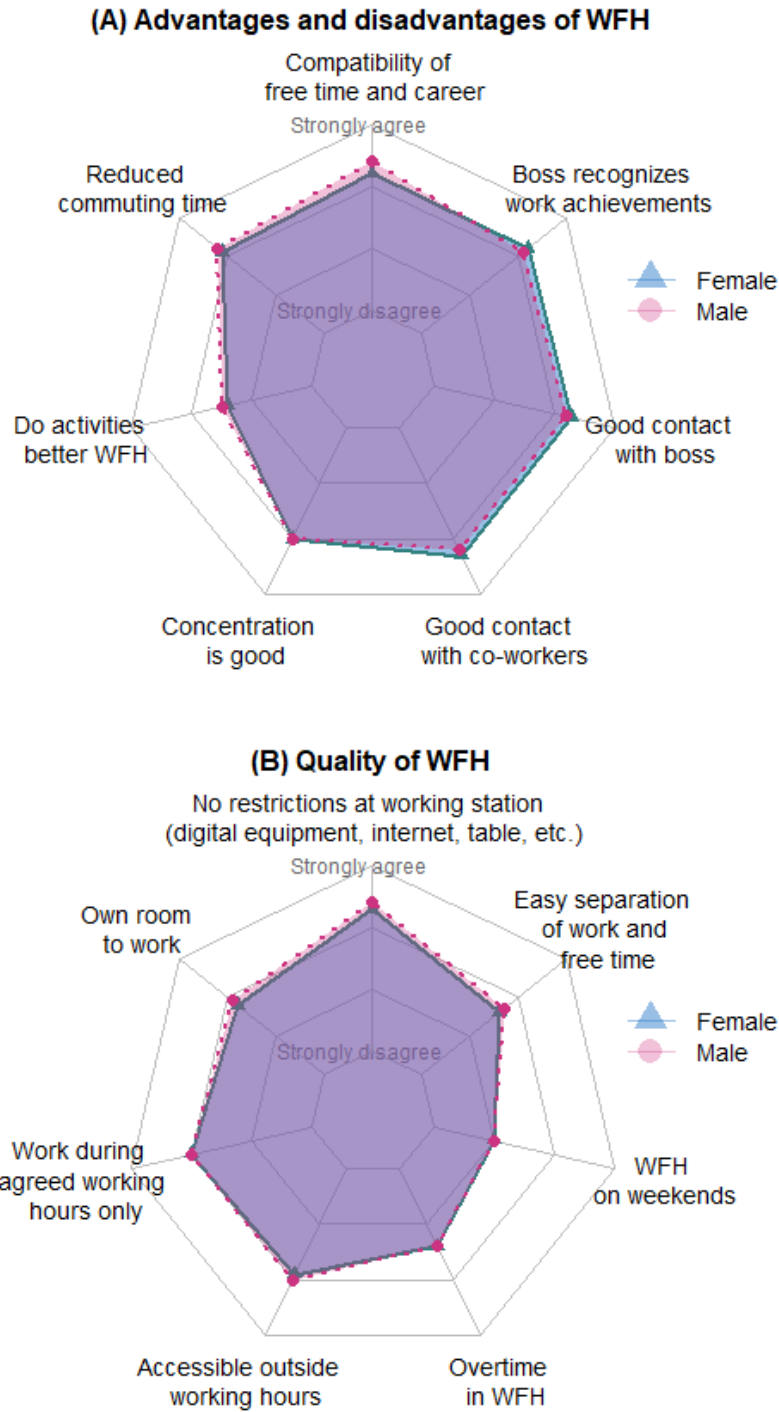
Furthermore, we changed the dependent variable to a binary variable that becomes one in the event that the division of unpaid work was *more equal*<sup>16</sup> during the COVID-19 restrictions than before (see Table S12). The results show that only the male partner WFH has a positive effect on the probability that the division of unpaid work becomes more equal, even though the effect for the whole sample is no longer significant (as in Table 1). Also it has a positive and significant effect in all three model specifications if both partners are WFH. In the models presented in the main text (Table 1), the effect of both partners WFH on the probability that a man takes on more childcare tasks is also positive but not significant. This could come from the fact that this dependent variable also responds to the case where the male partner took over a larger proportion of the childcare tasks before the lockdown and the woman increased her share during the COVID-19 restrictions (see Fig. 3 in the main text). If the housework or childcare activities had already been equally distributed before the lockdown, it has a (highly significant) negative effect on the probability that unpaid work was even more equally distributed during the COVID-19 restrictions compared to households where the woman previously did much more unpaid work than her male partner. This finding is in line with the main results. The distribution of income within the couple has a positive significant effect on the division of housework in family households if the male partner earns more (similar to the base model), but is not significant for any other model or category. The results for the remaining explanatory variables are similar to the base model, even though some covariates are no longer significant.

### A.v Linear probability model

The results presented in the main text and the previous robustness tests are based on a logistic regression, estimated by maximum likelihood. In the corresponding tables, we report average marginal effects. In this section, we estimated the models corresponding to Table 1 based on a linear probability model specification estimated by ordinary least squares. This serves as an indirect test, as the average marginal effects should correspond to the effects of the linear probability model. Table S13 shows that the results do not differ between these model specifications.

- Tab. S4.** Additional model (4): households without children
- Tab. S5.** Sample without people who work partly from home
- Tab. S6.** Additional control variable: information supplied by man
- Tab. S7.** Alternative income variable: subjective assessment
- Tab. S8.** Working hours: continuous working hours
- Tab. S9.** Working hours: part-time  $\leq 35h$
- Tab. S10.** Age variable: age groups
- Tab. S11.** Dependent variable: woman does more
- Tab. S12.** Dependent variable: more equal division
- Tab. S13.** Linear probability model

Fig. S1. Average agreement with statements on WFH from couple households without children



*Reading example:* This plot displays the average agreement with different statements on WFH. On average, men found “compatibility of free time and career” to be more true than women.

**Fig. S2. Agreement to statements with reconciliation of family and WFH by gender**



*Reading example:* This bar chart shows the distribution of agreement (from left to right “strongly agree” to “strongly disagree” and “No info”) with different statements by parents WFH. Statement 1 indicates that 39% of all women strongly disagree with “easy reconciliation at home”, whereas only 22% of all men strongly disagree with this statement.



Table S1. Survey sample size and key variables

COUPLE AND HOUSEHOLD CHARACTERISTICS ( <i>n</i> = 730)										
<b>Change in the division of housework (HW): ♂ does more</b>										
	<i>True</i>	<i>Not true</i>	<i>NA</i>							
<i>n</i>	184	535	11							
%	25.21	73.29	1.51							
<b>Change in the division of childcare tasks (CC): ♂ does more</b>										
	<i>True</i>	<i>Not True</i>	<i>NA</i>							
<i>n</i>	117	258	355							
%	16.03	35.34	48.63							
<b>Working from home</b>										
	<i>Both</i>	<i>No one</i>	<i>Only woman</i>	<i>Only man</i>						
<i>n</i>	470	62	140	58						
%	64.38	8.49	19.18	7.95						
<b>Income situation</b>										
	<i>♀ more</i>	<i>~ same</i>	<i>♂ more</i>	<i>NA</i>						
<i>n</i>	94	271	295	70						
%	12.88	37.12	40.41	9.59						
<b>Division of housework (HW) before lockdown</b>										
	<i>♀ much more</i>	<i>♀ more</i>	<i>equal</i>	<i>♂ more</i>	<i>♂ much more</i>	<i>NA</i>				
<i>n</i>	126	268	217	94	17	8				
%	17.26	36.71	29.73	12.88	2.33	1.10				
<b>Division of childcare (CC) before lockdown</b>										
	<i>♀ much more</i>	<i>♀ more</i>	<i>equal</i>	<i>♂ more</i>	<i>♂ much more</i>	<i>NA</i>				
<i>n</i>	102	145	92	29	8	354				
%	13.97	19.86	12.60	3.97	1.10	48.49				
<b>Household type</b>										
	<i>Couple w/o children &lt;15</i>	<i>Couple with children &lt;15</i>	<i>Other</i>							
<i>n</i>	316	347	67							
%	43.29	47.53	9.18							
<b>Average number of children by age group</b>										
	<i>0 – 2 years</i>	<i>3 – 5 years</i>	<i>6 – 9 years</i>	<i>10 – 14 years</i>						
∅	0.13	0.23	0.25	0.20						
<b>Region</b>										
	<i>Burgenland</i>	<i>Carinthia</i>	<i>Lower Austria</i>	<i>Upper Austria</i>	<i>Salzburg</i>	<i>Styria</i>	<i>Tyrol</i>	<i>Vorarlberg</i>	<i>Vienna</i>	<i>Other</i>
<i>n</i>	29	19	129	65	24	51	12	6	373	22
%	3.97	2.60	17.67	8.90	3.29	6.99	1.64	0.82	51.10	3.01
INDIVIDUAL CHARACTERISTICS ( <i>n</i> = 1460)										
<b>Average age</b>										
	<i>♀</i>					<i>♂</i>				
∅	40.7					43.5				
<b>Highest education completed</b>										
	<i>Primary/lower second.</i>		<i>Higher second.</i>		<i>Tertiary</i>		<i>NA</i>			
	<i>♀</i>	<i>♂</i>	<i>♀</i>	<i>♂</i>	<i>♀</i>	<i>♂</i>	<i>♀</i>	<i>♂</i>	<i>♀</i>	<i>♂</i>
<i>n</i>	104	158	97	157	491	376	38	39		
%	14.25	21.64	13.29	21.51	67.26	51.51	5.21	5.34		
<b>Employment status</b>										
	<i>Employed</i>		<i>Self-employed</i>		<i>Short-time work</i>					
	<i>♀</i>	<i>♂</i>	<i>♀</i>	<i>♂</i>	<i>♀</i>	<i>♂</i>				
<i>n</i>	626	572	58	102	46	56				
%	85.75	78.36	7.95	13.97	6.30	7.67				
<b>Working hours: part-time (≤20h)</b>										
	<i>Full-time</i>		<i>Full-time (ST)</i>		<i>Part-time</i>		<i>Part-time (ST)</i>		<i>NA</i>	
	<i>♀</i>	<i>♂</i>	<i>♀</i>	<i>♂</i>	<i>♀</i>	<i>♂</i>	<i>♀</i>	<i>♂</i>	<i>♀</i>	<i>♂</i>
<i>n</i>	526	611	5	21	148	38	41	35	10	25
%	72.05	83.70	0.68	2.88	20.27	5.21	5.62	4.79	1.37	3.42

Note: ST=short-time; NA=not available

**Table S2. Division of unpaid work before and during the lockdown**

<b>Distribution of housework (HW) before lockdown</b>												
	<i>♀ does everything</i>	1	2	3	4	5	6	7	8	9	<i>♂ does everything</i>	NA
<i>n</i>	12	39	75	126	142	217	61	33	12	3	2	8
<i>%</i>	1.64	5.34	10.27	17.26	19.45	29.73	8.36	4.52	1.64	0.41	0.27	1.10
<b>Distribution of childcare (CC) before lockdown</b>												
	<i>♀ does everything</i>	1	2	3	4	5	6	7	8	9	<i>♂ does everything</i>	NA
<i>n</i>	11	40	51	84	61	92	15	14	5	3	0	354
<i>%</i>	1.51	5.48	6.99	11.51	8.36	12.60	2.05	1.92	0.68	0.41	0	48.49
<b>Distribution of housework (HW) during lockdown</b>												
	<i>♀ does everything</i>	1	2	3	4	5	6	7	8	9	<i>♂ does everything</i>	NA
<i>n</i>	25	36	86	127	126	206	48	44	19	3	2	8
<i>%</i>	3.42	4.93	11.78	17.40	17.26	28.22	6.58	6.03	2.60	0.41	0.27	1.10
<b>Distribution of childcare (CC) during lockdown</b>												
	<i>♀ does everything</i>	1	2	3	4	5	6	7	8	9	<i>♂ does everything</i>	NA
<i>n</i>	20	44	54	70	61	81	14	18	12	2	0	354
<i>%</i>	2.74	6.03	7.40	9.59	8.36	11.10	1.92	2.47	1.64	0.27	0	48.49

Note: ST=short-time; NA=not available

**Table S3. Average time spent per activity during the lockdown by gender**

Activity	Male (N=687)			Female (N=690)		
	$\emptyset^a$	Participation rate <sup>b</sup>	$\emptyset$ participants <sup>c</sup>	$\emptyset^a$	Participation rate <sup>b</sup>	$\emptyset$ participants <sup>c</sup>
	hh:mm	%	hh:mm	hh:mm	%	hh:mm
Paid work	07:53	97.8	08:03	06:43	98.8	06:48
Housework						
Cooking, baking, grocery shopping	00:53	75.4	01:10	01:27	95.5	01:32
Cleaning, laundry	00:41	75.7	00:54	01:09	93.6	01:14
Other: pet care, gardening, repairs	00:40	56.8	01:10	00:30	56.5	00:52
Childcare						
Physical care: feeding, washing, supervision	00:36	42.6	01:25	00:53	49.3	01:48
Learning, teaching	00:17	23.1	01:12	00:37	34.9	01:46
Leisure time: reading, playing, speaking with child	00:53	48.5	01:49	01:16	52.3	02:26
Personal care						
Sleeping	07:13	100.0	07:13	07:14	100.0	07:14
Eating, drinking, washing, breaks	01:45	97.7	01:47	01:42	96.7	01:45
Leisure time						
Sports, hobbies, media use	01:58	83.1	02:22	01:16	74.6	01:42
Social contacts	00:45	71.9	01:03	00:47	82.6	00:57
Voluntary work						
Helping high-risk group	00:05	9.6	00:54	00:08	15.7	00:50
Other: Red Cross, etc.	00:03	3.6	01:25	00:02	3.8	00:44
Other activity: Not specified	00:19	21.4	01:28	00:16	21.2	01:14
Total						
Housework	02:13	92.7	02:24	03:06	99.1	03:08
Childcare	01:46	55.5	03:11	02:47	58.8	04:44
Unpaid work	03:59	97.4	04:06	05:53	99.4	05:55
Paid and unpaid work	11:52	100.0	11:52	12:37	100.0	12:37

Note: Estimates by self and by partner are taken into account. If both partners filled out the survey, only the self-reported estimates are used.

<sup>a</sup>Mean time spent by all individuals.

<sup>b</sup>Share of individuals who spent some time on the activity.

<sup>c</sup>Mean time of all individuals who spent some time on the activity.

**Table S4. Additional model (4) households without children**

	<i>Dependent variable:</i>			
	more HW: ♂ (1)	more HW: ♂ (2)	more CC: ♂ (3)	more HW: ♂ (4)
WFH: both	0.15 (0.07)**	0.19 (0.10)**	0.11 (0.10)	0.09 (0.11)
WFH: only ♀	0.11 (0.10)	0.06 (0.15)	-0.05 (0.12)	0.17 (0.13)
WFH: only ♂	0.23 (0.12)**	0.42 (0.14)***	0.30 (0.12)**	0.06 (0.16)
WFH: nobody (= ref)				
HW before: ♀ more	0.17 (0.05)***	0.15 (0.06)**		0.22 (0.07)***
HW before: ♀ much more	0.32 (0.06)***	0.33 (0.08)***		0.35 (0.09)***
HW before: ♂ (much) more	0.07 (0.07)	0.14 (0.11)		0.06 (0.09)
HW before: equal (= ref)				
CC before: ♀ more			0.21 (0.06)***	
CC before: ♀ much more			0.36 (0.07)***	
CC before: ♂ (much) more			0.03 (0.12)	
CC before: equal (= ref)				
Higher income: ♀	0.17 (0.07)**	0.21 (0.11)**	-0.01 (0.10)	0.16 (0.09)*
Higher income: ♂	0.09 (0.04)**	0.11 (0.06)*	0.06 (0.06)	0.13 (0.07)**
Equal income (= ref)				
Working hours <20h: ♀	0.01 (0.05)	-0.01 (0.06)	-0.11 (0.06)*	-0.01 (0.10)
Working hours <20h (ST): ♀	-0.01 (0.08)	0.01 (0.09)	-0.03 (0.09)	-0.04 (0.13)
Working hours >20h (ST): ♀	-0.13 (0.15)	-0.18 (0.11)*	0.05 (0.22)	
Working hours >20h: ♀ (= ref)				
Working hours <20h: ♂	0.16 (0.10)	0.35 (0.13)***	0.46 (0.09)***	-0.03 (0.13)
Working hours <20h (ST): ♂	0.06 (0.09)	0.03 (0.10)	0.14 (0.11)	0.07 (0.15)
Working hours >20h (ST): ♂	0.01 (0.10)	-0.19 (0.09)**	-0.24 (0.10)**	0.07 (0.14)
Working hours >20h: ♂ (= ref)				
Self-employed: ♀	-0.06 (0.06)	-0.09 (0.08)	-0.19 (0.07)***	-0.03 (0.10)
Employed: ♀ (= ref)				
Self-employed: ♂	-0.08 (0.05)	-0.05 (0.07)	-0.18 (0.07)***	-0.16 (0.08)**
Employed: ♂ (= ref)				
No. children 0 – 2 years	-0.05 (0.05)	0.03 (0.07)	0.05 (0.07)	
No. children 3 – 5 years	-0.06 (0.04)	-0.02 (0.05)	0.05 (0.06)	
No. children 6 – 9 years	0.06 (0.03)	0.09 (0.04)*	0.00 (0.05)	
No. children 10 – 14 years	-0.06 (0.04)	-0.09 (0.06)	-0.17 (0.07)**	
Age: ♀	-0.00 (0.00)	0.01 (0.01)	0.02 (0.01)**	-0.01 (0.01)*
Age: ♂	0.00 (0.00)	0.00 (0.01)	0.00 (0.01)	0.01 (0.01)
Educ. ♀ : Higher sec.	0.02 (0.06)	0.00 (0.08)	0.09 (0.08)	0.09 (0.08)
Educ. ♀ : Lower sec.   prim.	-0.04 (0.07)	0.01 (0.10)	0.16 (0.11)	-0.03 (0.10)
Educ. ♀ : Tertiary (= ref)				
Educ. ♂ : Higher sec.	0.02 (0.05)	0.00 (0.06)	0.06 (0.06)	0.06 (0.07)
Educ. ♂ : Lower sec.   prim.	-0.00 (0.06)	-0.02 (0.09)	-0.09 (0.08)	0.02 (0.08)
Educ. ♂ : Tertiary (= ref)				
Observations	559	300	300	259
Log likelihood	-299.90	-148.58	-152.99	-136.79
Deviance	599.81	297.15	305.98	273.58
AIC	653.81	351.15	359.98	317.58
BIC	770.61	451.16	459.98	395.83

\*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$

Note: WFH=working from home; HW=housework; CC=childcare; ST=short-time

**Table S5. Sample without people who work partly from home**

	<i>Dependent variable:</i>		
	more HW: ♂ (1)	more HW: ♂ (2)	more CC: ♂ (3)
WFH: both	0.15 (0.07)**	0.20 (0.10)**	0.11 (0.11)
WFH: only female	0.10 (0.10)	0.05 (0.14)	-0.06 (0.12)
WFH: only ♂	0.25 (0.11)**	0.43 (0.13)***	0.31 (0.12)**
WFH: nobody (= <i>ref</i> )			
HW before: ♀ more	0.18 (0.05)***	0.14 (0.06)**	
HW before: ♀ much more	0.30 (0.07)***	0.30 (0.09)***	
HW before: ♂ (much) more	0.06 (0.07)	0.12 (0.10)	
HW before: equal (= <i>ref</i> )			
CC before: ♀ more			0.22 (0.07)***
CC before: ♀ much more			0.35 (0.07)***
CC before: ♂ (much) more			0.04 (0.12)
CC before: equal (= <i>ref</i> )			
Higher income: ♀	0.19 (0.07)***	0.22 (0.11)**	-0.01 (0.11)
Higher income: ♂	0.07 (0.04)	0.08 (0.06)	0.04 (0.06)
Equal income (= <i>ref</i> )			
Working hours ≤20h: ♀	0.03 (0.05)	0.03 (0.06)	-0.08 (0.06)
Working hours ≤20h (ST): ♀	0.01 (0.08)	0.06 (0.10)	0.01 (0.10)
Working hours >20h (ST): ♀	-0.15 (0.14)	-0.19 (0.09)**	0.05 (0.23)
Working hours >20h: ♀ (= <i>ref</i> )			
Working hours ≤20h: ♂	0.15 (0.10)	0.35 (0.14)***	0.47 (0.09)***
Working hours ≤20h (ST): ♂	0.03 (0.09)	-0.00 (0.10)	0.12 (0.11)
Working hours >20h (ST): ♂	-0.03 (0.10)	-0.20 (0.08)**	-0.26 (0.09)***
Working hours >20h: ♂ (= <i>ref</i> )			
Self-employed: ♀	-0.06 (0.06)	-0.10 (0.08)	-0.19 (0.08)**
Employed: ♀ (= <i>ref</i> )			
Self-employed: ♂	-0.06 (0.05)	-0.04 (0.07)	-0.18 (0.07)***
Employed: ♂ (= <i>ref</i> )			
No. children 0 – 2 years	-0.05 (0.06)	0.03 (0.08)	0.06 (0.08)
No. children 3 – 5 years	-0.07 (0.04)*	-0.02 (0.06)	0.06 (0.06)
No. children 6 – 9 years	0.07 (0.04)**	0.10 (0.05)**	0.02 (0.05)
No. children 10 – 14 years	-0.07 (0.04)	-0.09 (0.06)	-0.16 (0.07)**
Age: ♀	-0.00 (0.00)	0.00 (0.01)	0.02 (0.01)**
Age: ♂	0.00 (0.00)	0.01 (0.01)	0.00 (0.01)
Educ. ♀ : Higher sec.	-0.01 (0.06)	-0.02 (0.08)	0.07 (0.09)
Educ. ♀ : Lower sec.   prim.	-0.06 (0.07)	-0.04 (0.10)	0.12 (0.11)
Educ. ♀ : Tertiary (= <i>ref</i> )			
Educ. ♂ : Higher sec.	0.05 (0.05)	0.03 (0.07)	0.08 (0.07)
Educ. ♂ : Lower sec.   prim.	0.04 (0.06)	0.06 (0.10)	-0.03 (0.09)
Educ. ♂ : Tertiary (= <i>ref</i> )			
Observations	527	282	282
Log likelihood	-279.44	-135.37	-143.71
Deviance	558.89	270.74	287.42
AIC	612.89	324.74	341.42
BIC	728.10	423.07	439.75

\*\*\*  $p < 0.01$ ; \*\*  $p < 0.05$ ; \*  $p < 0.1$

Note: WFH=working from home; HW=housework; CC=childcare; ST=short-time

**Table S6. Additional control variable: information supplied by man**

	<i>Dependent variable:</i>		
	more HW: ♂ (1)	more HW: ♂ (2)	more CC: ♂ (3)
WFH: both	0.16 (0.07)**	0.20 (0.09)**	0.12 (0.10)
WFH: only ♀	0.14 (0.10)	0.11 (0.14)	-0.03 (0.12)
WFH: only ♂	0.18 (0.11)	0.37 (0.14)***	0.29 (0.13)**
WFH: nobody (= ref)			
HW before: ♀ more	0.17 (0.05)***	0.14 (0.06)**	
HW before: ♀ much more	0.34 (0.06)***	0.34 (0.08)***	
HW before: ♂ (much) more	0.05 (0.07)	0.11 (0.10)	
HW before: equal (= ref)			
CC before: ♀ more			0.21 (0.06)***
CC before: ♀ much more			0.36 (0.07)***
CC before: ♂ (much) more			0.01 (0.12)
CC before: equal (= ref)			
Higher income: ♀	0.18 (0.07)***	0.25 (0.10)**	0.00 (0.11)
Higher income: ♂	0.10 (0.04)**	0.13 (0.05)**	0.06 (0.06)
Equal income (= ref)			
Working hours ≤20h: ♀	-0.00 (0.05)	-0.04 (0.06)	-0.11 (0.05)**
Working hours ≤20h (ST): ♀	-0.02 (0.07)	0.02 (0.09)	-0.03 (0.09)
Working hours >20h (ST): ♀	-0.14 (0.14)	-0.19 (0.10)**	0.05 (0.23)
Working hours >20h: ♀ (= ref)			
Working hours ≤20h: ♂	0.15 (0.10)	0.38 (0.12)***	0.47 (0.09)***
Working hours ≤20h (ST): ♂	0.05 (0.09)	0.05 (0.10)	0.15 (0.10)
Working hours >20h (ST): ♂	0.03 (0.11)	-0.20 (0.09)**	-0.25 (0.10)**
Working hours >20h: ♂ (= ref)			
Self-employed: ♀	-0.07 (0.06)	-0.07 (0.08)	-0.18 (0.08)**
Employed: ♀ (= ref)			
Self-employed: ♂	-0.06 (0.05)	-0.02 (0.07)	-0.17 (0.07)**
Employed: ♂ (= ref)			
No. children 0 – 2 years	-0.05 (0.05)	0.01 (0.07)	0.04 (0.07)
No. children 3 – 5 years	-0.05 (0.04)	-0.00 (0.05)	0.05 (0.06)
No. children 6 – 9 years	0.07 (0.03)*	0.10 (0.04)**	0.00 (0.05)
No. children 10 – 14 years	-0.06 (0.04)	-0.09 (0.06)	-0.17 (0.07)***
Age: ♀	-0.01 (0.00)	0.01 (0.01)	0.02 (0.01)**
Age: ♂	0.00 (0.00)	0.00 (0.01)	0.00 (0.01)
Educ. ♀ : Higher sec.	0.02 (0.05)	-0.02 (0.07)	0.07 (0.08)
Educ. ♀ : Lower sec.   prim.	-0.06 (0.06)	-0.02 (0.10)	0.15 (0.11)
Educ. ♀ : Tertiary (= ref)			
Educ. ♂ : Higher sec.	0.04 (0.05)	0.03 (0.06)	0.07 (0.06)
Educ. ♂ : Lower sec.   prim.	0.01 (0.06)	0.00 (0.09)	-0.08 (0.08)
Educ. ♂ : Tertiary (= ref)			
Info by man	0.18 (0.05)***	0.28 (0.07)***	0.12 (0.07)
Info by woman (= ref)			
Observations	559	300	300
Log likelihood	-293.99	-141.23	-151.74
Deviance	587.99	282.46	303.48
AIC	643.99	338.46	359.48
BIC	765.12	442.17	463.18

\*\*\*  $p < 0.01$ ; \*\*  $p < 0.05$ ; \*  $p < 0.1$

Note: WFH=working from home; HW=housework; CC=childcare; ST=short-time

**Table S7. Alternative income variable: subjective assessment**

	<i>Dependent variable:</i>		
	more HW: ♂ (1)	more HW: ♂ (2)	more CC: ♂ (3)
WFH: both	0.14 (0.07)*	0.20 (0.09)**	0.08 (0.11)
WFH: only ♀	0.09 (0.10)	0.10 (0.15)	-0.05 (0.12)
WFH: only ♂	0.25 (0.11)**	0.45 (0.13)***	0.32 (0.12)***
WFH: nobody (= <i>ref</i> )			
HW before: ♀ more	0.17 (0.05)***	0.14 (0.06)**	
HW before: ♀ much more	0.34 (0.06)***	0.35 (0.08)***	
HW before: ♂ (much) more	0.08 (0.07)	0.11 (0.10)	
HW before: equal (= <i>ref</i> )			
CC before: ♀ more			0.21 (0.06)***
CC before: ♀ much more			0.39 (0.07)***
CC before: ♂ (much) more			0.02 (0.12)
CC before: equal (= <i>ref</i> )			
Higher income: ♀	0.14 (0.07)**	0.15 (0.10)	0.05 (0.10)
Higher income: ♂	0.14 (0.06)**	0.20 (0.08)***	0.05 (0.09)
Equal income (= <i>ref</i> )			
Working hours ≤20h: ♀	-0.01 (0.05)	-0.03 (0.06)	-0.09 (0.05)*
Working hours ≤20h (ST): ♀	-0.02 (0.07)	-0.00 (0.09)	-0.05 (0.09)
Working hours >20h (ST): ♀	-0.13 (0.14)	-0.19 (0.11)*	0.05 (0.23)
Working hours >20h: ♀ (= <i>ref</i> )			
Working hours ≤20h: ♂	0.20 (0.09)**	0.43 (0.11)***	0.45 (0.10)***
Working hours ≤20h (ST): ♂	0.09 (0.09)	0.08 (0.10)	0.09 (0.10)
Working hours >20h (ST): ♂	-0.00 (0.10)	-0.22 (0.07)***	-0.25 (0.10)**
Working hours >20h: ♂ (= <i>ref</i> )			
Self-employed: ♀	-0.04 (0.07)	-0.06 (0.09)	-0.15 (0.08)*
Employed: ♀ (= <i>ref</i> )			
Self-employed: ♂	-0.09 (0.05)*	-0.07 (0.07)	-0.16 (0.07)**
Employed: ♂ (= <i>ref</i> )			
No. children 0 – 2 years	-0.04 (0.05)	-0.03 (0.07)	0.01 (0.07)
No. children 3 – 5 years	-0.06 (0.04)	-0.05 (0.05)	0.02 (0.06)
No. children 6 – 9 years	0.06 (0.03)	0.07 (0.05)	-0.00 (0.05)
No. children 10 – 14 years	-0.06 (0.04)	-0.10 (0.06)*	-0.18 (0.07)***
Age: ♀	-0.01 (0.00)	-0.00 (0.01)	0.01 (0.01)*
Age: ♂	0.01 (0.00)	0.01 (0.01)	0.00 (0.01)
Educ. ♀ : Higher sec.	0.00 (0.05)	-0.05 (0.07)	0.06 (0.08)
Educ. ♀ : Lower sec.   prim.	-0.02 (0.07)	0.02 (0.10)	0.17 (0.11)
Educ. ♀ : Tertiary (= <i>ref</i> )			
Educ. ♂ : Higher sec.	0.02 (0.05)	0.00 (0.06)	0.05 (0.06)
Educ. ♂ : Lower sec.   prim.	-0.01 (0.05)	-0.01 (0.08)	-0.10 (0.08)
Educ. ♂ : Tertiary (= <i>ref</i> )			
Observations	591	313	313
Log likelihood	-316.40	-157.33	-161.51
Deviance	632.80	314.67	323.02
AIC	686.80	368.67	377.02
BIC	805.11	469.82	478.17

\*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$

Note: WFH=working from home; HW=housework; CC=childcare; ST=short-time

The sample is larger due to a smaller number of missing values in the alternative income variable.



**Table S8. Alternative working hours variable: continuous working hours**

	<i>Dependent variable:</i>		
	more HW: ♂ (1)	more HW: ♂ (2)	more CC: ♂ (3)
WFH: both	0.1432 (0.0714)**	0.1525 (0.1002)	0.0412 (0.1067)
WFH: only ♀	0.0877 (0.0954)	0.0057 (0.1356)	-0.1394 (0.1042)
WFH: only ♂	0.2040 (0.1151)*	0.3122 (0.1529)**	0.1483 (0.1291)
WFH: nobody (= <i>ref</i> )			
HW before: ♀ more	0.1641 (0.0474)***	0.1375 (0.0640)**	
HW before: ♀ much more	0.3242 (0.0632)***	0.3275 (0.0846)***	
HW before: ♂ (much) more	0.0657 (0.0673)	0.1225 (0.1044)	
HW before: equal (= <i>ref</i> )			
CC before: ♀ more			0.2422 (0.0606)***
CC before: ♀ much more			0.4100 (0.0619)***
CC before: ♂ (much) more			0.0461 (0.1159)
CC before: equal (= <i>ref</i> )			
Higher income: ♀	0.1561 (0.0696)**	0.2229 (0.1081)**	0.0066 (0.0987)
Higher income: ♂	0.1008 (0.0444)**	0.1188 (0.0579)**	0.0948 (0.0597)
Equal income (= <i>ref</i> )			
Working hours: ♀	0.0000 (0.0022)	-0.0002 (0.0031)	0.0059 (0.0033)*
Working hours: ♂	-0.0051 (0.0019)***	-0.0055 (0.0024)**	-0.0126 (0.0032)***
Self-employed: ♀	-0.0641 (0.0609)	-0.0873 (0.0760)	-0.2027 (0.0692)***
Employed: ♀ (= <i>ref</i> )			
Self-employed: ♂	-0.0553 (0.0531)	0.0233 (0.0733)	-0.0576 (0.0768)
Employed: ♂ (= <i>ref</i> )			
No. children 0 – 2 years	-0.0528 (0.0543)	0.0232 (0.0741)	0.0365 (0.0710)
No. children 3 – 5 years	-0.0687 (0.0427)	-0.0303 (0.0549)	0.0350 (0.0548)
No. children 6 – 9 years	0.0498 (0.0340)	0.0697 (0.0435)	-0.0100 (0.0446)
No. children 10 – 14 years	-0.0643 (0.0416)	-0.0835 (0.0581)	-0.1523 (0.0630)**
Age: ♀	-0.0048 (0.0044)	0.0053 (0.0070)	0.0141 (0.0077)*
Age: ♂	0.0034 (0.0041)	0.0029 (0.0055)	0.0022 (0.0059)
Educ. ♀ : Higher sec.	0.0234 (0.0553)	0.0177 (0.0803)	0.0975 (0.0837)
Educ. ♀ : Lower sec.   prim.	-0.0425 (0.0666)	0.0066 (0.1040)	0.1494 (0.1043)
Educ. ♀ : Tertiary (= <i>ref</i> )			
Educ. ♂ : Higher sec.	0.0119 (0.0467)	-0.0026 (0.0620)	0.0524 (0.0632)
Educ. ♂ : Lower sec.   prim.	-0.0074 (0.0557)	-0.0328 (0.0846)	-0.1096 (0.0809)
Educ. ♂ : Tertiary (= <i>ref</i> )			
Observations	559	300	300
Log likelihood	-297.8869	-150.0648	-149.3522
Deviance	595.7739	300.1296	298.7045
AIC	641.7739	346.1296	344.7045
BIC	741.2753	431.3166	429.8914

\*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$

Note: WFH=working from home; HW=housework; CC=childcare; ST=short-time

**Table S9. Alternative working hours variable: part-time  $\leq 35h$**

	<i>Dependent variable:</i>		
	more HW: $\sigma$ (1)	more HW: $\sigma$ (2)	more CC: $\sigma$ (3)
WFH: both	0.15 (0.07)**	0.18 (0.10)*	0.10 (0.10)
WFH: only $\varphi$	0.10 (0.10)	0.04 (0.14)	-0.06 (0.12)
WFH: only $\sigma$	0.22 (0.12)*	0.36 (0.15)**	0.23 (0.13)*
WFH: nobody (= <i>ref</i> )			
HW before: $\varphi$ more	0.16 (0.05)***	0.14 (0.06)**	
HW before: $\varphi$ much more	0.32 (0.06)***	0.35 (0.08)***	
HW before: $\sigma$ (much) more	0.06 (0.07)	0.12 (0.10)	
HW before: equal (= <i>ref</i> )			
CC before: $\varphi$ more			0.23 (0.06)***
CC before: $\varphi$ much more			0.39 (0.07)***
CC before: $\sigma$ (much) more			0.04 (0.12)
CC before: equal (= <i>ref</i> )			
Higher income: $\varphi$	0.16 (0.07)**	0.22 (0.11)**	0.03 (0.11)
Higher income: $\sigma$	0.09 (0.04)**	0.11 (0.06)*	0.05 (0.06)
Equal income (= <i>ref</i> )			
Working hours $\leq 35h$ : $\varphi$	0.01 (0.05)	0.01 (0.07)	-0.01 (0.08)
Working hours $\leq 35h$ (ST): $\varphi$	-0.03 (0.08)	-0.04 (0.10)	-0.02 (0.11)
Working hours $> 35h$ : $\varphi$ (= <i>ref</i> )			
Working hours $\leq 35h$ : $\sigma$	0.08 (0.05)	0.15 (0.07)**	0.21 (0.07)***
Working hours $\leq 35h$ (ST): $\sigma$	0.08 (0.08)	0.01 (0.10)	0.11 (0.10)
Working hours $> 35h$ : $\sigma$ (= <i>ref</i> )			
Self-employed: $\varphi$	-0.06 (0.06)	-0.10 (0.08)	-0.21 (0.07)***
Employed: $\varphi$ (= <i>ref</i> )			
Self-employed: $\sigma$	-0.07 (0.05)	-0.02 (0.07)	-0.12 (0.07)
Employed: $\sigma$ (= <i>ref</i> )			
No. children 0 – 2 years	-0.05 (0.05)	0.02 (0.07)	0.03 (0.07)
No. children 3 – 5 years	-0.07 (0.04)*	-0.04 (0.06)	0.01 (0.06)
No. children 6 – 9 years	0.05 (0.03)	0.07 (0.04)	-0.02 (0.05)
No. children 10 – 14 years	-0.06 (0.04)	-0.08 (0.06)	-0.17 (0.07)**
Age: $\varphi$	-0.00 (0.00)	0.01 (0.01)	0.02 (0.01)**
Age: $\sigma$	0.00 (0.00)	0.00 (0.01)	0.00 (0.01)
Educ. $\varphi$ : Higher sec.	0.03 (0.06)	0.01 (0.08)	0.11 (0.09)
Educ. $\varphi$ : Lower sec.   prim.	-0.04 (0.07)	0.02 (0.11)	0.15 (0.11)
Educ. $\varphi$ : Tertiary (= <i>ref</i> )			
Educ. $\sigma$ : Higher sec.	0.02 (0.05)	0.01 (0.06)	0.07 (0.07)
Educ. $\sigma$ : Lower sec.   prim.	0.00 (0.06)	-0.01 (0.09)	-0.07 (0.09)
Educ. $\sigma$ : Tertiary (= <i>ref</i> )			
Observations	559	300	300
Log likelihood	-299.98	-150.60	-158.23
Deviance	599.95	301.20	316.47
AIC	649.95	351.20	366.47
BIC	758.10	443.79	459.06

\*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$

Note: WFH=working from home; HW=housework; CC=childcare; ST=short-time

**Table S10. Alternative age variable: age groups**

	<i>Dependent variable:</i>		
	more HW: ♂ (1)	more HW: ♂ (2)	more CC: ♂ (3)
WFH: both	0.15 (0.07)**	0.19 (0.10)**	0.14 (0.10)
WFH: only ♀	0.10 (0.10)	0.04 (0.15)	-0.03 (0.12)
WFH: only ♂	0.22 (0.12)*	0.43 (0.13)***	0.35 (0.12)***
WFH: nobody (= <i>ref</i> )			
HW before: ♀ more	0.17 (0.05)***	0.15 (0.06)**	
HW before: ♀ much more	0.33 (0.06)***	0.33 (0.08)***	
HW before: ♂ (much) more	0.07 (0.07)	0.17 (0.11)	
HW before: equal (= <i>ref</i> )			
CC before: ♀ more			0.20 (0.07)***
CC before: ♀ much more			0.35 (0.07)***
CC before: ♂ (much) more			0.05 (0.12)
CC before: equal (= <i>ref</i> )			
Higher income: ♀	0.18 (0.07)**	0.24 (0.11)**	-0.00 (0.11)
Higher income: ♂	0.09 (0.04)**	0.10 (0.06)*	0.06 (0.06)
Equal income (= <i>ref</i> )			
Working hours ≤20h: ♀	0.01 (0.05)	-0.02 (0.06)	-0.13 (0.06)**
Working hours ≤20h (ST): ♀	-0.01 (0.08)	0.01 (0.10)	-0.07 (0.09)
Working hours >20h (ST): ♀	-0.14 (0.15)	-0.18 (0.11)	0.05 (0.21)
Working hours >20h: ♀ (= <i>ref</i> )			
Working hours ≤20h: ♂	0.16 (0.10)	0.36 (0.13)***	0.49 (0.09)***
Working hours ≤20h (ST): ♂	0.07 (0.09)	0.03 (0.10)	0.16 (0.11)
Working hours >20h (ST): ♂	0.01 (0.10)	-0.18 (0.10)*	-0.23 (0.11)**
Working hours >20h: ♂ (= <i>ref</i> )			
Self-employed: ♀	-0.05 (0.06)	-0.10 (0.08)	-0.19 (0.08)**
Employed: ♀ (= <i>ref</i> )			
Self-employed: ♂	-0.08 (0.05)	-0.03 (0.07)	-0.16 (0.07)**
Employed: ♂ (= <i>ref</i> )			
No. children 0 – 2 years	-0.05 (0.06)	0.01 (0.08)	0.02 (0.07)
No. children 3 – 5 years	-0.07 (0.04)	-0.02 (0.05)	0.04 (0.06)
No. children 6 – 9 years	0.05 (0.04)	0.10 (0.05)**	-0.01 (0.05)
No. children 10 – 14 years	-0.07 (0.04)*	-0.07 (0.06)	-0.15 (0.06)**
Age group 18 – 29: ♀	0.06 (0.08)	0.02 (0.15)	-0.07 (0.12)
Age group 40 – 49: ♀	-0.01 (0.06)	0.01 (0.07)	0.06 (0.07)
Age group 50 – 59: ♀	-0.08 (0.07)	0.18 (0.15)	0.25 (0.14)*
Age group >59: ♀	-0.19 (0.10)*		
Age group 30 – 39: ♀ (= <i>ref</i> )			
Age group 18 – 29: ♂	-0.06 (0.08)	-0.19 (0.10)*	-0.19 (0.12)
Age group 40 – 49: ♂	0.01 (0.06)	-0.03 (0.07)	0.09 (0.07)
Age group 50 – 59: ♂	0.05 (0.08)	-0.04 (0.09)	-0.06 (0.10)
Age group >59: ♂	0.03 (0.13)	0.22 (0.37)	0.21 (0.32)
Age group 30 – 39: ♂ (= <i>ref</i> )			
Educ. ♀ : Higher sec.	0.03 (0.06)	0.01 (0.08)	0.12 (0.09)
Educ. ♀ : Lower sec.   prim.	-0.04 (0.07)	0.03 (0.11)	0.23 (0.11)**
Educ. ♀ : Tertiary (= <i>ref</i> )			
Educ. ♂ : Higher sec.	0.02 (0.05)	0.01 (0.06)	0.08 (0.07)
Educ. ♂ : Lower sec.   prim.	-0.01 (0.06)	-0.04 (0.08)	-0.12 (0.08)
Educ. ♂ : Tertiary (= <i>ref</i> )			
Observations	559	300	300
Log likelihood	-298.83	-147.55	-152.48
Deviance	597.65	295.09	304.95
AIC	663.65	359.09	368.95
BIC	806.41	477.62	487.47

\*\*\*  $p < 0.01$ ; \*\*  $p < 0.05$ ; \*  $p < 0.1$

Note: WFH=working from home; HW=housework; CC=childcare; ST=short-time

**Table S11. Alternative dependent variable: woman does more**

	<i>Dependent variable:</i>		
	more HW: ♀ (1)	more HW: ♀ (2)	more CC: ♀ (3)
WFH: both	-0.11 (0.08)	-0.04 (0.11)	-0.03 (0.10)
WFH: only ♀	-0.00 (0.08)	0.09 (0.12)	0.12 (0.12)
WFH: only ♂	-0.03 (0.08)	0.10 (0.14)	-0.03 (0.13)
WFH: nobody (= <i>ref</i> )			
HW before: ♀ more	0.05 (0.05)	-0.01 (0.06)	
HW before: ♀ much more	-0.18 (0.05)***	-0.28 (0.06)***	
HW before: ♂ (much) more	0.18 (0.06)***	0.01 (0.09)	
HW before: equal (= <i>ref</i> )			
CC before: ♀ more			-0.03 (0.06)
CC before: ♀ much more			-0.38 (0.05)***
CC before: ♂ (much) more			0.02 (0.09)
CC before: equal (= <i>ref</i> )			
Higher income: ♀	-0.05 (0.06)	-0.10 (0.09)	-0.04 (0.10)
Higher income: ♂	0.04 (0.04)	0.02 (0.06)	0.07 (0.06)
Equal income (= <i>ref</i> )			
Working hours ≤20h: ♀	0.02 (0.05)	0.05 (0.07)	0.06 (0.06)
Working hours ≤20h (ST): ♀	0.17 (0.09)*	0.11 (0.11)	0.02 (0.10)
Working hours >20h (ST): ♀	0.19 (0.28)	0.28 (0.27)	0.31 (0.21)
Working hours >20h: ♀ (= <i>ref</i> )			
Working hours ≤20h: ♂	-0.06 (0.08)	-0.19 (0.10)*	-0.22 (0.09)**
Working hours ≤20h (ST): ♂	0.05 (0.08)	-0.05 (0.11)	-0.02 (0.10)
Working hours >20h (ST): ♂	-0.09 (0.09)	-0.05 (0.17)	-0.02 (0.17)
Working hours >20h: ♂ (= <i>ref</i> )			
Self-employed: ♀	-0.01 (0.07)	0.04 (0.10)	0.07 (0.10)
Employed: ♀ (= <i>ref</i> )			
Self-employed: ♂	0.06 (0.06)	0.07 (0.09)	-0.06 (0.08)
Employed: ♂ (= <i>ref</i> )			
No. children 0 – 2 years	0.10 (0.05)**	-0.07 (0.08)	-0.00 (0.08)
No. children 3 – 5 years	0.09 (0.04)**	-0.04 (0.06)	-0.06 (0.06)
No. children 6 – 9 years	-0.03 (0.04)	-0.11 (0.05)**	0.07 (0.05)
No. children 10 – 14 years	0.06 (0.04)*	-0.04 (0.06)	0.08 (0.06)
Age: ♀	0.01 (0.00)	0.01 (0.01)	-0.01 (0.01)
Age: ♂	-0.01 (0.00)*	-0.02 (0.01)**	-0.01 (0.01)
Educ. ♀ : Higher sec.	-0.05 (0.05)	-0.01 (0.09)	-0.01 (0.09)
Educ. ♀ : Lower sec.   prim.	-0.04 (0.07)	-0.02 (0.10)	-0.04 (0.10)
Educ. ♀ : Tertiary (= <i>ref</i> )			
Educ. ♂ : Higher sec.	0.04 (0.05)	0.06 (0.07)	-0.11 (0.06)*
Educ. ♂ : Lower sec.   prim.	-0.08 (0.05)	-0.11 (0.09)	-0.11 (0.08)
Educ. ♂ : Tertiary (= <i>ref</i> )			
Observations	559	300	300
Log likelihood	-297.29	-171.64	-160.49
Deviance	594.58	343.28	320.97
AIC	648.58	397.28	374.97
BIC	765.39	497.28	474.97

\*\*\* $p < 0.01$ ; \*\* $p < 0.05$ ; \* $p < 0.1$

Note: WFH=working from home; HW=housework; CC=childcare; ST=short-time

**Table S12. Alternative dependent variable: more equal division**

	<i>Dependent variable:</i>		
	more equal HW (1)	more equal HW (2)	more equal CC (3)
WFH: both	0.11 (0.06)*	0.16 (0.07)**	0.22 (0.08)***
WFH: only ♀	-0.03 (0.08)	0.01 (0.12)	0.06 (0.12)
WFH: only ♂	0.14 (0.10)	0.33 (0.12)***	0.28 (0.10)***
WFH: nobody (= ref)			
HW before: equal	-0.34 (0.03)***	-0.30 (0.03)***	
HW before: ♀ more	-0.10 (0.04)***	-0.13 (0.05)***	
HW before: ♂ (much) more	-0.12 (0.04)***	-0.10 (0.05)*	
HW before: ♀ much more (= ref)			
CC before: equal			-0.39 (0.03)***
CC before: ♀ more			-0.13 (0.05)**
CC before: ♂ (much) more			-0.11 (0.07)
CC before: ♀ much more (= ref)			
Higher income: ♀	0.01 (0.06)	-0.06 (0.10)	0.04 (0.11)
Higher income: ♂	0.05 (0.04)	0.13 (0.05)***	0.06 (0.06)
Equal income (= ref)			
Working hours ≤20h: ♀	-0.01 (0.04)	-0.05 (0.05)	-0.04 (0.06)
Working hours ≤20h (ST): ♀	-0.09 (0.05)*	-0.09 (0.06)	-0.01 (0.09)
Working hours >20h (ST): ♀	-0.22 (0.02)***	-0.21 (0.02)***	0.10 (0.18)
Working hours >20h: ♀ (= ref)			
Working hours ≤20h: ♂	0.17 (0.09)*	0.38 (0.09)***	0.26 (0.11)**
Working hours ≤20h (ST): ♂	0.02 (0.08)	0.06 (0.10)	0.02 (0.10)
Working hours >20h (ST): ♂	0.02 (0.09)	-0.11 (0.10)	-0.17 (0.11)
Working hours >20h: ♂ (= ref)			
Self-employed: ♀	0.02 (0.06)	-0.06 (0.06)	-0.22 (0.06)***
Employed: ♀ (= ref)			
Self-employed: ♂	-0.08 (0.05)*	-0.01 (0.07)	-0.14 (0.07)**
Employed: ♂ (= ref)			
No. children 0 – 2 years	-0.01 (0.04)	-0.03 (0.07)	0.07 (0.07)
No. children 3 – 5 years	-0.07 (0.04)*	-0.07 (0.05)	0.03 (0.05)
No. children 6 – 9 years	-0.02 (0.03)	-0.02 (0.04)	-0.03 (0.04)
No. children 10 – 14 years	-0.06 (0.04)	-0.12 (0.06)**	-0.06 (0.05)
Age: ♀	0.00 (0.00)	0.00 (0.01)	0.01 (0.01)
Age: ♂	-0.00 (0.00)	0.00 (0.00)	0.00 (0.01)
Educ. ♀ : Higher sec.	0.01 (0.05)	0.04 (0.07)	0.05 (0.08)
Educ. ♀ : Lower sec.   prim.	-0.02 (0.06)	0.11 (0.10)	0.09 (0.10)
Educ. ♀ : Tertiary (= ref)			
Educ. ♂ : Higher sec.	0.04 (0.04)	0.03 (0.05)	0.00 (0.06)
Educ. ♂ : Lower sec.   prim.	0.02 (0.05)	0.00 (0.08)	0.00 (0.09)
Educ. ♂ : Tertiary (= ref)			
Observations	559	300	300
Log likelihood	-227.19	-106.98	-130.29
Deviance	454.37	213.96	260.57
AIC	508.37	267.96	314.57
BIC	625.18	367.96	414.57

\*\*\*  $p < 0.01$ ; \*\*  $p < 0.05$ ; \*  $p < 0.1$

Note: WFH=working from home; HW=housework; CC=childcare; ST=short-time

**Table S13. Linear probability model**

	<i>Dependent variable:</i>		
	more HW: ♀ (1)	more HW: ♀ (2)	more CC: ♀ (3)
WFH: both	0.15 (0.07)**	0.19 (0.10)**	0.11 (0.10)
WFH: only ♀	0.11 (0.10)	0.06 (0.15)	-0.05 (0.12)
WFH: only ♂	0.23 (0.12)**	0.42 (0.14)***	0.30 (0.12)**
WFH: nobody (= ref)			
HW before: ♀ more	0.17 (0.05)***	0.15 (0.06)**	
HW before: ♀ much more	0.32 (0.06)***	0.33 (0.08)***	
HW before: ♂ (much) more	0.07 (0.07)	0.14 (0.11)	
HW before: ♀ much more (= ref)			
CC before: ♀ more			0.21 (0.06)***
CC before: ♀ much more			0.36 (0.07)***
CC before: ♂ (much) more			0.03 (0.12)
CC before: ♀ much more (= ref)			
Higher income: ♀	0.17 (0.07)**	0.21 (0.11)**	-0.01 (0.10)
Higher income: ♂	0.09 (0.04)**	0.11 (0.06)*	0.06 (0.06)
Equal income (= ref)			
Working hours ≤20h: ♀	0.01 (0.05)	-0.01 (0.06)	-0.11 (0.06)*
Working hours ≤20h (ST): ♀	-0.01 (0.08)	0.01 (0.09)	-0.03 (0.09)
Working hours >20h (ST): ♀	-0.13 (0.15)	-0.18 (0.11)*	0.05 (0.22)
Working hours >20h: ♀ (= ref)			
Working hours ≤20h: ♂	0.16 (0.10)	0.35 (0.13)***	0.46 (0.09)***
Working hours ≤20h (ST): ♂	0.06 (0.09)	0.03 (0.10)	0.14 (0.11)
Working hours >20h (ST): ♂	0.01 (0.10)	-0.19 (0.09)**	-0.24 (0.10)**
Working hours >20h: ♂ (= ref)			
Self-employed: ♀	-0.06 (0.06)	-0.09 (0.08)	-0.19 (0.07)***
Employed: ♀ (= ref)			
Self-employed: ♂	-0.08 (0.05)	-0.05 (0.07)	-0.18 (0.07)***
Employed: ♂ (= ref)			
No. children 0 – 2 years	-0.05 (0.05)	0.03 (0.07)	0.05 (0.07)
No. children 3 – 5 years	-0.06 (0.04)	-0.02 (0.05)	0.05 (0.06)
No. children 6 – 9 years	0.06 (0.03)	0.09 (0.04)*	0.00 (0.05)
No. children 10 – 14 years	-0.06 (0.04)	-0.09 (0.06)	-0.17 (0.07)**
Age: ♀	-0.00 (0.00)	0.01 (0.01)	0.02 (0.01)**
Age: ♂	0.00 (0.00)	0.00 (0.01)	0.00 (0.01)
Educ. ♀ : Higher sec.	0.02 (0.06)	0.00 (0.08)	0.09 (0.08)
Educ. ♀ : Lower sec.   prim.	-0.04 (0.07)	0.01 (0.10)	0.16 (0.11)
Educ. ♀ : Tertiary (= ref)			
Educ. ♂ : Higher sec.	0.02 (0.05)	0.00 (0.06)	0.06 (0.06)
Educ. ♂ : Lower sec.   prim.	-0.00 (0.06)	-0.02 (0.09)	-0.09 (0.08)
Educ. ♂ : Tertiary (= ref)			
Observations	559	300	300
Log likelihood	-299.90	-148.58	-152.99
Deviance	599.81	297.15	305.98
AIC	653.81	351.15	359.98
BIC	770.61	451.16	459.98

\*\*\*  $p < 0.01$ ; \*\*  $p < 0.05$ ; \*  $p < 0.1$

Note: WFH=working from home; HW=housework; CC=childcare; ST=short-time

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