

# **Temporal dimensions of unemployment and relationship happiness in the United Kingdom**

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Keywords:	Relationship Quality, Unemployment, Couples, United Kingdom, Longitudinal Research
Abstract:	<p>Here we study how unemployment is related to partner relationship happiness in the United Kingdom. We investigate multiple dimensions of unemployment – current unemployment, changes in unemployment, duration of unemployment, and past unemployment – each of which provides unique insights into how economic uncertainty can strain relationships. Not including these aspects potentially leads to an underestimation of the long-term effect of unemployment and times when couples are especially affected. Using British longitudinal data (UKHLS), we employ random and fixed regression analyses. The results highlight the gendered nature of relationships and employment within British couples. As found in previous studies, unemployment, particularly men's unemployment, is associated with unhappier relationships. However, we find that over the long-run, relationship happiness declined and did not always recover. In addition, men's re-employment did not solve problems rising from unemployment, especially for women, who continued to be less happy with the relationship when their male partner was unemployed in the recent past. Overall, the research showed that unemployment is not only related to relationship happiness at the time of unemployment, but had a scarring effect on relationship happiness.</p>

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17   unemployment, but had a scarring effect on relationship happiness.

## 1 Introduction

A large body of evidence has found that unemployment adversely affects the economic and psychological wellbeing of individuals (e.g. Esche, 2020; Gangl, 2006; Heggebø & Elstad, 2018; Strandh, Hammarström, Nilsson, Nordenmark, & Russel, 2013). However, less research has examined the association between economic adversity and people's happiness with the relationship. Prior studies have found that couples who experience economic hardship have on average lower relationship quality (Blom, Kraaykamp, & Verbakel, 2019; Conger, Conger, & Martin, 2010; Hardie, Geist, & Lucas, 2014). In particular, unemployment and the experience of job loss are detrimental to relationships (Doiron & Mendolia, 2012; Hansen, 2005). However, it is unclear to what extent unemployment affects people's happiness with their relationships only as long as the employment spell lasts, or if the effects are enduring. The impact of unemployment may be temporary, and couples may recover from the initial experience of job loss (Luhmann, Hofmann, Eid, & Lucas, 2012), or relationship problems may accumulate the longer employment lasts (Hansen, 2005; Janlert, Winefield, & Hammarström, 2014). Additionally, even though people may reenter the labor force, their past unemployment experience may have scarred the relationship, preventing a full recovery of relationship happiness after re-employment. Each of these dimensions -- current unemployment, changes in unemployment, past experiences of unemployment, and the accumulation of long-term disadvantage -- provide unique insights into how economic uncertainty can strain relationship happiness over time<sup>i</sup>.

Prior studies which did not take these temporal dimensions into account may have underestimated the full association between unemployment and relationship happiness. If the experience of unemployment continues to scar relationship happiness after re-employment, the association between unemployment and poor relationship happiness may be larger than previously anticipated. Similarly, if prolonged unemployment continues to degrade relationship functioning, couples could be at greater risk of relationship dissolution. These nuanced views remain hidden when only a simple dichotomous indicator of employment status is used.

Given that both partners can contribute to the household economy, the unemployment of one partner may severely impact household finances and functioning. The loss of income and general strain of one partner's unemployment may worsen the other partner's perception of the relationship. The stress of being unemployed may also spill over to the other partner (Inanc, 2018), resulting in more conflict and less communication (Conger et al., 2010). Thus, it is important to evaluate the effect of partners' unemployment on the respondents' reported relationship happiness. Additionally, the association between unemployment and relationship happiness may differ between men and women (Hardie et al., 2014; Kinnunen & Feldt, 2004; Kinnunen & Pulkkinen,

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2  
3 1 1998). Traditionally, men have been considered responsible for breadwinning, whereas women were  
4 2 primarily responsible for care-work. Although these norms have declined, many people still adhere  
5 3 to these conceptions in the UK (Scott & Clery, 2013).

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8 4 Here we investigate the research question: *To what extent is current and past*  
9 5 *unemployment associated with relationship happiness among British couples and how does this*  
10 6 *differ by gender?* We examine multiple dimensions of unemployment, namely (a) current  
11 7 employment status, (b) changes in employment status, (c) the duration of the current  
12 8 unemployment, and (d) past experiences with unemployment. The context of our study – the United  
13 9 Kingdom – was particularly affected by economic uncertainty and changes in unemployment during  
14 10 the period under study (2009-2017), although to a lesser extent than other European countries such  
15 11 as Greece, Spain and Ireland. The Great Recession started in mid-2008 and led to a steep decline in  
16 12 GDP (Allen, 2010). This economic slow-down resulted in the unemployment rate rising from 5.5  
17 13 percent in early 2007 to 8.4 in late 2011, before declining to 4.4 percent in late 2017 (Office for  
18 14 National Statistics, 2019). During the Great Recession, the government also implemented a program  
19 15 of austerity, reducing unemployment benefits and placing greater obligations on the unemployed to  
20 16 search for work (Shahidi, 2015). Thus, in addition to the economic uncertainty created by the Great  
21 17 Recession, the government’s austerity measures weakened the economic positions of the  
22 18 unemployed, potentially placing even greater financial strain on couples.

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25 19 The household longitudinal panel data from the UK (the UK Household Longitudinal Study  
26 20 2009-2017), is uniquely suited to examine the association between multiple dimensions of  
27 21 employment and relationship happiness from both partners’ perspectives. The large dataset includes  
28 22 detailed employment histories, tracking respondents as they experience job loss and recovery and  
29 23 allowing us to calculate the duration of unemployment spells for both partners, often unavailable in  
30 24 smaller datasets.

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45 26 **Theoretical framework and hypotheses**

46 27 We use several theoretical frameworks to guide our hypotheses, most notably the family stress  
47 28 model (Conger et al., 2010). The family stress model posits that negative economic events, such as  
48 29 job loss, leads to more pressures on household finances, creates more stress and distress, erodes  
49 30 couple communication and support, and eventually results in a decline in relationship happiness  
50 31 (Conger et al., 2010). However, the family stress model does not explain how couples are affected by  
51 32 the duration of economic events, potentially leading to cumulative disadvantage, or the scarring of  
52 33 past events, which could leave a long-term strain on couples’ perceptions. Below we expand the  
53 34 family stress model to incorporate a concept of time.

### 1 2 3 4 5 2 *Current unemployment*

6  
7 3 As discussed in the family stress-model, unemployment often creates economic pressures that lead  
8  
9 4 to stress and strain in the household (Conger et al., 2010). Without an income from labor,  
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11 5 households can experience a lower standard of living and struggle to make ends meet. These  
12  
13 6 stressors can impact both the individual's perception of the relationship and the way that couples  
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15 7 interact and communicate. Aside from the financial difficulties of joblessness, the individual lacks  
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17 8 many of the benefits that come with employment, such as structured time, regular activity, purpose  
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19 9 in life, social contacts, status and identity (Jahoda, 1982). Both the lack of financial resources and  
20  
21 10 other benefits of employment can impact mental wellbeing, lower self-esteem, and induce the risk  
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23 11 of emotional and behavioral problems (e.g. depression, anxiety, anger, and antisocial behavior)  
24  
25 12 (Strandh et al., 2013; Suh, Diener, & Fujita, 1996). Individuals without a job can become withdrawn  
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27 13 and uncommunicative, as they struggle to cope with the lack of structured economic activity. The  
28  
29 14 feelings of inadequacy and frustration can spill over to how they perceive their own relationship.

30  
31 15 Next to the spillover from one's personal unemployment situation, the unemployment situation  
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33 16 of the partner could affect the happiness of the relationship, also known as crossover. Stressful  
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35 17 events could affect couples' communication and problem solving processes, inducing social  
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37 18 undermining, hostility, and communication (Neff & Karney, 2017). One partner may feel resentment  
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39 19 and blame the other for insufficient income and financial instability. This distress could also lead to  
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41 20 less supportive behaviors and negative interactions, with emotional withdrawal, conflict and  
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43 21 negative responses becoming more recurrent (Merolla, 2017). Individuals under strain are less able  
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45 22 to support the partner and communicate less constructively (Bodenmann et al., 2015). Thus we  
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47 23 expect that people who are (a) unemployed or (b) whose partner is unemployed are less happy with  
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49 24 their partner relationship compared to being employed people (Hypothesis 1).  
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### 52 53 54 55 26 *Changes in unemployment*

56  
57 27 The prior hypotheses relate to employment status and compare employed and unemployed  
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59 28 individuals. However, we are also interested in how a *change* in employment status alters  
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29 relationship happiness. According to the family stress model, unemployment leads to a deterioration  
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31 30 in financial stability and new stressors that impact the relationship (Conger et al., 2010). Becoming  
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33 31 unemployed is also associated with a decline in wellbeing (e.g. Esche, 2020; Inanc, 2018; Lucas,  
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35 32 Clark, Georgellis, & Diener, 2004) and worsening of emotional states (Schauss, Howell, & Ellmo,  
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37 33 2019; von Scheve, Esche, & Schupp, 2017), and re-employment is associated with a rise in wellbeing  
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39 34 (Strandh et al., 2013). Thus, transitions from being employed to unemployed change financial and

1 social circumstances, as well as emotional states, which can lower the happiness of partner  
2 relationships. Hence, we would expect that people who (a) become unemployed, or (b) whose  
3 partner becomes unemployed become less happy with their relationship compared to becoming  
4 employed (Hypothesis 2).

#### 5 6 *Duration of unemployment*

7 Furthermore, people's relationship happiness after becoming unemployed might be dependent on  
8 how long they are unemployed. Studies on the association between unemployment and relationship  
9 quality have usually only examined a snapshot in time (e.g. Blom et al., 2019). Yet long-term  
10 unemployment may be detrimental to the persistence and happiness of the relationship. Couples  
11 may either adapt after the initial shock of job loss and return to their original happiness, or their  
12 relationship happiness may gradually deteriorate. Set-point theory is a useful framework for positing  
13 the return to previous levels of relationship happiness. According to set-point theory, people have  
14 an established level of subjective wellbeing, and life events only lead to a temporary change in  
15 wellbeing (Headey, 2010). The theory posits that after the initial shock of an event, wellbeing reverts  
16 to its pre-event level (Lucas et al., 2004; Suh et al., 1996). This suggests that changes in employment  
17 could lead to a temporary change in relationship happiness, but not necessarily to long-term change;  
18 leading us to expect that people become less happy with their relationship when (a) they or (b) their  
19 partner becomes unemployed, but after an initial decline in relationship happiness, relationship  
20 happiness rises again (Hypothesis 3).

21 However, set-point theory has been critiqued, as many longitudinal studies do not find a  
22 quick or full return to former wellbeing after negative life events, such as unemployment (Headey,  
23 2010; Lucas et al., 2004; Luhmann et al., 2012). Even after being unemployed for several years, not  
24 having a job can continue to negatively affect one's wellbeing (Janlert et al., 2014; Lucas et al.,  
25 2004). The length of men's unemployment negatively impacted men's and women's relationship  
26 quality via economic strain and men's psychological distress, but was also directly negatively related  
27 to women's relationship quality (Kinnunen & Feldt, 2004). Thus, although the initial shock of  
28 unemployment may have passed, couples continue to deal with the negative consequences of  
29 unemployment which may accumulate over time. Financially, people may have savings to handle the  
30 loss of income following unemployment, but this will generally not be sustainable long-term. The  
31 longer someone is unemployed, the less likely they will be hired again (Van Belle, Di Stasio, Caers, De  
32 Couck, & Baert, 2018), making their unemployment situation less likely to change. Furthermore,  
33 spousal support may decline the longer an individual is exposed to stressful circumstances (Lepore,  
34 Evans, & Schneider, 1991). Rao's (2017) qualitative study on American women shows that some

wives increasingly abstained from emotionally supporting their partner when he was long-term unemployed, because it became too emotionally costly for them. Based on cumulative disadvantage, in contrast to the previous expectation, we therefore expect that (a) the longer people are unemployed, or (b) the longer their partner is unemployed the less happy they are with their partner relationship (Hypothesis 4).

#### *Past unemployment*

In contrast to the expectation that becoming re-employed negates the negative relationship consequences of unemployment, unemployment may have long-term effects on relationships that last beyond re-employment. Unemployment can scar future prospects, jeopardizing reentry to the labor market (Van Belle et al., 2018), and straining mental health and psychological wellbeing (Mousteri, Daly, & Delaney, 2018). Studies in the UK, US, and Sweden found that even after re-employment, individuals continued to have worse mental health (Daly & Delaney, 2013; Mossakowski, 2009; Strandh, Winefield, Nilsson, & Hammarström, 2014), although this was not found for life satisfaction in the UK (Zhou, Zou, Woods, & Wu, 2019). Past experiences may continue to cast a shadow over the couple, affecting communication and support (Schauss et al., 2019). Schauss et al. (2019) showed that while re-employment decreased depression symptoms among US couples, it was not associated with a rise in supportive behavior or a decline in social undermining between partners, suggesting that the influence of unemployment on relationship happiness is long-lasting. During unemployment, the unemployed seek support from the partner; however these emotional resources get drained, especially when the emotional support is not reciprocated. Consistently seeking support from the partner may ultimately result in negative interactions (Lepore et al., 1991). After people are re-employed, these drained emotional resources may not immediately return to the initial level. Thus the unemployment experience may have scarred the dynamics within the relationship (Schauss et al., 2019), resulting in the expectation that people who are (a) employed but were unemployed or (b) whose partner is employed but was unemployed are less happy with their partner relationship compared to continuously employed people (Hypothesis 5).

#### *Gender*

The association between an individual's or their partner's unemployment experiences and relationship happiness could differ by gender. Traditionally men were responsible for the household income, and employment has been more strongly related to being a good partner for men than for women (Scott & Clery, 2013; Townsend, 2002; West & Zimmerman, 1987). Men's unemployment is thus a greater deviation from the gendered ideal of being a good breadwinner than women's



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3 1 unemployment is from the ideal of caregiver (Inanc, 2018; Strandh et al., 2013; West & Zimmerman,  
4 2 1987). Men’s inability to provide income could diminish their own sense of self-worth and social  
5 3 status, making them less supportive or engaged. Women may lose respect for their unemployed  
6 4 partner, as their expectations about being a good breadwinner may not have been met. The  
7 5 deviation from gendered expectations would result in lower relationship happiness. Thus, it is  
8 6 important to pay attention to the differences by gender for each analysis.  
9 7

10 8 **Method**

11 9 *Data*

12 10 We used the UK Household Longitudinal Study (UKHLS) to test our hypotheses  
13 11 ([www.understandingsociety.ac.uk](http://www.understandingsociety.ac.uk)). The UKHLS is an annual household panel survey which began in  
14 12 2009 with approximately 40,000 households in the United Kingdom and included an ethnic minority  
15 13 boost sample. Later the UKHLS was expanded with former members of the British Household Panel  
16 14 Survey (BHPS) and another ethnic minority boost sample, but these extensions were not included in  
17 15 the study because the employment histories were only available for wave 1 participants. Household  
18 16 members age 16 or older were interviewed annually. Most interviews were computer aided face-to-  
19 17 face interviews (CAPI) and included a self-completion questionnaire (via paper in Wave 1 and 2, via  
20 18 computer from Wave 3 onward), which included the questions on relationship happiness. The  
21 19 household response rate was 57.3 percent in Wave 1 and the individual response rate was 81.8  
22 20 percent in Wave 1. Attrition between Wave 1 and 2 was higher among people aged under 30,  
23 21 singles, students, the unemployed, renters, and among those in urban areas (Lynn, Burton,  
24 22 Kaminska, Knies, & Nandi, 2012).

25 23 People were asked about their relationship happiness in Wave 1, 3, 5, and 7. These waves  
26 24 correspond to the years 2009-2011 (Wave 1), 2011-2013 (Wave 3), 2013-2015 (Wave5), and 2015-  
27 25 2017 (Wave 7). We selected observations of people in a cohabiting or married different-sex  
28 26 relationship (N= 87,204 observations), since the number of same-sex couples was too small to  
29 27 distinguish from different-sex couples. We selected observations where both partners were of  
30 28 working age (age 20 to 60) and were not retired or in fulltime education. We selected observations  
31 29 with a valid answer on our dependent variables. Some people separated and then repartnered and  
32 30 have valid observations with both partners. For these people we selected the observations with the  
33 31 first partner to ensure changes in partner’s employment reflected changes in employment, not  
34 32 having a new partner. After these selections, our main sample consisted of 44,682 observations  
35 33 (23,668 female, 21,014 male observations) for 20,751 respondents (10,897 women, 9,854 men).



The samples for the duration of unemployment and past experiences of unemployment were smaller. People in our sample were interviewed about their unemployment history in Wave 1 and their employment transitions in subsequent waves were added to this history if they continuously participated. For some observations their last employment transition did not match their employment status in that wave; these observations were also considered invalid. Valid employment histories were needed to study the duration of current unemployment spells and past experiences, resulting in a lower sample size for these analyses. Table 1 shows the number of observations and respondents for each sample.

Characteristics of the partner were asked of the partner directly, therefore respondents have missing values on these characteristics if their partner was not interviewed. If the value for the duration of the relationship was missing, we imputed it with the value of the partner. Next, missing values of all independent variables were imputed in Stata with multiple imputation methods (multiple logistic, logistic, linear, and truncated regression) (5 datasets) using the variables described in the measurement section below as well as the age of the partner, using a long format, but not whole-wave missing data.

Although poor relationship happiness can lead to separation, our analyses require a measure of relationship happiness; thus, couples must be together for the duration of the analyses in order to report on their relationship happiness. Some of the couples in our initial sample do eventually separate. Couples who separated were not included after their separation, but previous observations were included. We investigated whether the association between unemployment and relationship happiness differed between people who did and did not eventually separate for the analyses on current unemployment (the number of separations was insufficient for the other analyses). These additional analyses (available upon request) showed no significant differences in relationship happiness by eventual separation.

## Measurements

*Relationship happiness*, our dependent variable, ranged from 1 (“extremely unhappy”) to 7 (“perfect”), and respondents were instructed that the middle point (“happy”) represented the degree of happiness in most relationships. This measurement is the one-item version of the Dyadic Adjustment Scale (Hunsley, Pinsent, Lefebvre, James-Tanner, & Vito, 1995). This and similar questions have been frequently used to investigate relationship happiness (e.g. Brown, Manning, & Payne, 2017). We employ relationship happiness as a continuous variable. Descriptive statistics for all variables in the various samples are shown in Table 1.

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3 1 *Current unemployment* is operationalized in different ways depending on the analysis. First,  
4 2 *employment status* consists of three categories: employed, unemployed, and other. The latter  
5 3 category is composed of homemakers, long-term sick or disabled, on maternity leave, doing  
6 4 something else, and other smaller categories. *Changes in unemployment* use the same classification  
7 5 in the fixed-effects model (discussed below).

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10 6 *Unemployment duration* captures the number of months an individual was unemployed up  
11 7 to a maximum of five years, ranging from 0, the month they lost their job, to 59, the end of the five  
12 8 year period (similar to e.g. Janlert et al., 2014). We include both the linear and quadratic  
13 9 specification of unemployment duration to investigate possible non-linearity (as has been indicated  
14 10 for wellbeing by for instance Janlert et al., 2014, Luhmann et al., 2012).

15  
16 11 To study *past unemployment* experiences we differentiated the employed between those  
17 12 who have been unemployed in the past two years for at least one month (labelled re-employed) and  
18 13 those who have not been unemployed in the past two years (labelled continuously employed).  
19 14 Robustness checks included whether people were employed in the past year and past three years  
20 15 and led to similar conclusions (available upon request). This is similar to studies such as Zhou et al.  
21 16 (2019), but dissimilar from for instance Strandh et al. (2014) and Daly and Delaney (2013) who  
22 17 studied the consequences of early unemployment experiences for wellbeing later in life. In contrast  
23 18 to other studies which often relied on annual observations, we were able to include relatively short  
24 19 unemployment spells even if these happened between waves.

25  
26 20 We controlled for *health* of both partners in our analyses. Health was measured by asking  
27 21 both partners to rate their general health from excellent to poor and refers to both physical and  
28 22 mental health. Similar to previous research (e.g. Bambra & Popham, 2010; Janlert et al., 2014) we  
29 23 collapsed these indicators into very good (excellent, very good), good (good), and poor (fair, poor)  
30 24 self-rated health. Health is both a cause and a consequence of relationship quality (Robles, Slatcher,  
31 25 Trombello, & McGinn, 2014) and is associated with unemployment (e.g. Heggebø & Elstad, 2018;  
32 26 Janlert et al., 2014; Zhou et al., 2019). However, controlling for this variable is important to assess to  
33 27 what extent unemployment is associated with relationship happiness beyond affecting people's  
34 28 health. Excluding health from our analyses led to the same conclusions although associations  
35 29 between unemployment and relationship happiness were often stronger.

36  
37 30 We control for a variety of other factors, as the same characteristics which lead to  
38 31 unemployment may also result in lower relationship happiness. The individual characteristics we  
39 32 control for are *age*, *educational attainment* (higher (Degree), middle (A-levels), or lower (GCSE or  
40 33 lower)), *ethnicity* (white native or other ethnic background), and *prior relationship experience*  
41 34 (whether they cohabited or were married to a previous partner). For instance, lower education can

be associated with both the likelihood of long-term unemployment and re-employment (Van Belle, et al., 2018), as well as relationship happiness (Brown et al., 2017). Due to small sample size, in particular for the analyses examining unemployment duration, we had to reduce the categories of ethnicity and education to two and three categories respectively<sup>ii</sup>.

The controls of relationship characteristics are *marital status* (cohabiting versus married), *relationship duration* (including squared to take into account the nonlinear relationship), and the *presence of children* (with the categories: did not have a child, had a child living in the home, and had a child but none living in the same household). These are all variables associated with relationship happiness (Brown et al., 2017) and unemployment (Inanc, 2015). Furthermore, we control for region (NUTS-1) and wave. Controlling for region is important because regional contexts differ substantially across the UK, potentially affecting how unemployment affects individuals' health (Bambra & Popham, 2010; Heggebø, & Elstad, 2018) and potentially relationships. Wave controls for macro (economic) trends and the economic uncertainty that could have changed over time<sup>iii</sup>.

As explained in the analytical strategy section later, in the final models we control for the level of *household income* to study whether the association between unemployment and relationship happiness goes beyond merely an income effect. The family stress model posits that economic resources are related to relationship happiness (Conger et al., 2010), and low income may help to explain any association between unemployment and relationship happiness. Nonetheless, as discussed above, employment may be important beyond simply contributing to the household income (Jahoda, 1982), for example employment can provide a sense of purpose in life and bolster self-esteem, which may impact relationship happiness. Thus, we include household income to see to what extent unemployment affects couples beyond their income. Income was operationalized as OECD equivalized net household income (Bourquin, Cribb, Waters, & Xu, 2019). Couples were categorized in quartiles per sample per wave to take economic growth into account.

### *Analytical strategy*

We took several approaches to examine the effect of (a) current unemployment; (b) changes in unemployment, (c) unemployment duration; and (d) past unemployment experiences. We used both random and fixed effects models, because each approach addresses different research questions. To analyse (a) current unemployment, (c) the duration of unemployment<sup>iv</sup>, and (d) past unemployment, we used linear random effects models with robust standard errors. To investigate (b) how changes in employment status were related to changes in relationship happiness we used linear fixed effects models. Random and fixed effects analyses were employed because of the hierarchical nature of the data where observations were nested within individuals. Random effects models addressed

between-person variation, whereas fixed effects models investigated within-person variation. For instance, the random effects models estimated whether people who were unemployed suffered from lower relationship happiness than people who were employed. This approach allowed us to compare individuals directly and take into account long-term disadvantage. Nonetheless, while we controlled for various factors, random effects models cannot completely take into account unobserved heterogeneity from stable characteristics. Therefore, we turned to fixed effects models to study how individuals reacted to the experience of unemployment. By comparing individuals with themselves, the fixed effect analyses took into account unobserved heterogeneity, but they also suffered from the reduction of statistical power, as changes within individuals were typically less common than differences between persons, which could lead to falsely rejecting hypotheses. As a whole, these strategies complemented each other, providing unique insights into different dimensions of unemployment.

Bivariate models are shown for own unemployed (Models 1a, 2a, 3a, 5a) and partner's unemployment (Models 1b, 2b, 4a, 5b), before including them simultaneously with the controls (Models 1c, 2c, 3b, 4b, 5c). Household income is included in the final models (Models 1d, 2d, 3c, 4c, 5d). We first estimated our analyses separately for men and women, and then tested for significant differences on a pooled sample with interactions between gender and all variables. Significant differences ( $p < .05$ ) between men and women are indicated by bold coefficients.

## Results

### *Current unemployment*

We first examined whether respondents' and their partners' employment status were associated with relationship happiness (H1a and H1b). Table 2 shows random effects models, with results presented separately for men (panel 1) and women (panel 2). Bold coefficients indicate that the differences between men and women were significantly different at the .05 level (estimated from pooled samples). Model 1a and 1b show the bivariate associations between one's own and partner's employment status with relationship happiness. Model 1c includes both partners' employment status and the control variables. Model 1d includes household income in quartiles. Full models are available on request.

In panel 1 for men, the bivariate analyses indicate that men who were unemployed were less happy with their relationship than employed men ( $B = -0.175$ ,  $p < .001$ ). When partner's employment status (Model 1b) and the controls were included (Model 1c), this association declined but remained significant ( $B = -0.098$ ,  $p < .05$ ). After including the level of household income (Model 1d) this association declined slightly, but remained significant ( $B = -0.094$ ,  $p < .05$ ). Partner's

unemployment, on the other hand, seemed to be largely unrelated to men's relationship happiness. Model 1b showed that men whose female partner was unemployed were marginally less happy with their relationship ( $B = -0.095$ ,  $p < .1$ ). However, this association became non-significant after including men's employment status and the control variables.

For women in panel 2, the bivariate results in Model 1a showed that women who were unemployed were also less happy with their relationship compared to employed women ( $B = -0.170$ ,  $p < 0.001$ ). When partner's unemployment status and controls were included in Model 1c, unemployed women still had lower relationship happiness than employed women, but this difference was only marginally significant ( $B = -0.099$ ,  $p < .1$ ). After including household income in Model 1d, this association declined further ( $B = -0.084$ ,  $p < .1$ ). Own unemployment status was similarly related to own relationship happiness for both men and women. Partner's unemployment was significantly associated with women's relationship happiness. In Model 1b, without including control variables and own employment status, women were less happy with their relationships when their male partner was unemployed compared to women whose partner was employed ( $B = -0.232$ ,  $p < .001$ ). This association declined but remained highly significant ( $B = -0.165$ ,  $p < .001$ ) when including women's employment status and the controls in Model 1c. When including household income in Model 1d, this association further declined, but remained significant ( $B = -0.147$ ,  $p < .001$ ). The partner's unemployment was significantly more associated with women's than men's relationship happiness.

We confirm Hypothesis 1a as both unemployed men and women were less happy with their relationship compared to employed men and women, although evidence is stronger for men than for women. Hypothesis 1b was confirmed only for women; women whose male partner was unemployed were less happy with their relationship compared to women whose partner was employed.

Controls generally confirm prior findings on relationship happiness (e.g. Blom et al., 2019; Brown et al., 2017; Hardie, et al., 2014). People were happier with the relationship when they or their partner reported better levels of health. Note that excluding this variable led to substantively the same conclusions. Older people were less happy with the relationship. Relationship happiness declined the longer people were together, but rose again after about 20 years. Married couples and parents with a child in the household were happier than cohabitators and childless couples respectively. Having had a previous relationship was unrelated to relationship happiness for men and women. White British had higher relationship happiness than people with other ethnic backgrounds; and the higher educated had higher relationship happiness than lower and middle educated people. People in later waves were less happy than people in wave 1. Lastly, women in the

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3 1 North East and Northern Ireland and men in the East Midlands, West Midlands, South East, and  
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5 2 Northern Ireland were happier than people living in London.

6  
7 3 [Table 2]

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9 4  
10 5 *Changes in unemployment*

11 6 In Table 3 we use fixed effects models to test whether changes in unemployment were associated  
12 7 with changes in relationship happiness (H2a and H2b) separate for men (panel 1) and women (panel  
13 8 2). The columns show: the bivariate association of changes in one's own employment status (Model  
14 9 2a); the partner's employment status (Model 2b); controls (Model 2c), and changes in household  
15 10 income (Model 2d). Bold coefficients indicate significant differences in the association for men and  
16 11 women at the .05 level (estimated from pooled samples).

17 12 Both the bivariate (Model 2a) and multivariate models (Model 2c and 2d) in panel 1 show  
18 13 that changes in men's own unemployment status are unrelated to changes in their relationship  
19 14 happiness. Similarly, changes in their partner's unemployment status are not significantly related to  
20 15 changes in men's relationship happiness (Model 2b, 2c, nor 2d).

21 16 Panel 2 indicates that changes in women's unemployment status seem unrelated to changes  
22 17 in relationship happiness in both the bivariate (Model 2a) and multivariate analyses (Model 2c and  
23 18 2d). Changes in partner's unemployment status is not significantly related to changes in women's  
24 19 relationship happiness when controls are not included (Model 2b). However, once controls and  
25 20 changes in employment status are included (Model 2c), women become significantly less happy with  
26 21 the relationship when their male partner becomes unemployed compared to becoming employed  
27 22 ( $B=-0.125$ ,  $p<.05$ ). The magnitude of this association remained similar once income was included in  
28 23 Model 2d, but decreases in significance level ( $B=-0.122$ ,  $p<.1$ ). The interaction term from the pooled  
29 24 models (not shown) indicated no significant gender differences in the association between changes  
30 25 in own or partner's unemployment status and changes in relationship happiness.

31 26 In total, we reject Hypothesis 2a for both men and women as changes in own  
32 27 unemployment are unrelated to changes in relationship happiness. Hypothesis 2b, concerning  
33 28 changes in partner's unemployment and changes in relationship happiness, is confirmed for women  
34 29 but rejected for men; however this gender difference was not statistically significant.

35 30 [Table 3]

36 31  
37 32 *Duration of unemployment*

38 33 In Table 4 we tested Hypothesis 3a, 3b, 4a, and 4b, where we expected a linear negative and  
39 34 curvilinear association between unemployment duration and relationship happiness respectively.



The length of one's own unemployment duration was investigated in Models 3a, 3b, and 3c, using random effects models. The partner's unemployment duration was studied in Models 4a, 4b, and 4c. For women these models were estimated as random effects models, but for men with Ordinary Least Squares (OLS) where we selected the first observation because of the limited amount of cases leading the random effects models for men to not converge. Gender differences couldn't be estimated for partner's unemployment duration since different methods were used.

Starting with men's own unemployment duration and their relationship happiness in panel 1 in Table 4, the bivariate analyses (Model 3a) showed that the longer men were unemployed the lower their relationship happiness ( $B = -0.010$ ,  $p < .05$ ). However, this was no longer significant once the controls and the partner's employment status were included in Model 3b. Panel 2 shows that in contrast to men's own unemployment duration, their female partner's unemployment duration was marginally negatively related to men's relationship happiness, both in the bivariate analyses and once the controls, men's employment status, and income were included (Model 4a,  $-0.016$ ,  $p < .1$ ; Model 4b,  $-0.017$ ,  $p < .1$ ; Model 4c,  $-0.018$ ,  $p < .1$ ).

Panel 3 and 4 in Table 4 shows that women's relationship happiness is significantly related to her own and her partner's unemployment duration. The bivariate results indicate that the longer she was unemployed, the lower her relationship happiness (in panel 3, Model 3a,  $B = -0.017$ ,  $p < .05$ ), which remained significant once the controls and the partner's employment status were included (Model 3b,  $B = -0.019$ ,  $p < .05$ ), and income (Model 3c,  $B = -0.017$ ,  $p < .05$ ). A curvilinear relationship was only marginally significant once controls were included ( $B = 0.001$ ,  $p < .1$  in Models 3b and 3c), indicating that relationship happiness rose again after 3 years of unemployment. These associations did not significantly differ from the associations for men. Her male partner's unemployment was also significantly related to her relationship happiness in Models 4a, 4b, and 4c (panel 4). A curvilinear relationship was marginally significant ( $p < .1$ ) before controls were added.

To summarize, we can confirm Hypothesis 3a for women, but not men, whose relationship happiness declined the longer they were unemployed, but rose after several years. Regarding the partner's unemployment duration, we find confirmation for Hypothesis 4b for men and women.

[Table 4]

### *Past unemployment*

Table 5 presents the analysis of re-employment. We tested if employed people who were, or whose partner was, unemployed in the past two years were less happy with their relationship compared to employed people who were not unemployed in the past two years (Hypothesis 5). Random effects models were estimated separately for men (panel 1) and women (panel 2). Bivariate associations



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3 1 were estimated in Model 5a and 5b, Model 5c included the controls and both partners' employment  
4 2 status, and Model 5d included both partners' health and the household income. Differences in the  
5 3 association for men and women at the .05 level are indicated in bold (estimated from pooled  
6 4 samples).

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10 5 Panel 1 in Table 5 shows that men's relationship happiness did not differ between currently  
11 6 employed people, regardless of whether they were continuously employed or were re-employed  
12 7 (Models 5a, 5c, and 5d). Nor was their female partners' past unemployment experience related to  
13 8 their relationship happiness (Models 5b, 5c, and 5d).

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16 9 Panel 2 shows that relationship happiness of currently employed women was also unrelated  
17 10 to her own unemployment experience in the last two years. On the other hand, women whose  
18 11 partner was re-employed were significantly less happy with their relationship compared to women  
19 12 whose partner was continuously employed, both in the bivariate analyses (Model 5b,  $B=-0.226$ ,  
20 13  $p<.01$ ), and once the other variables were included (Model 5c,  $B=-0.180$ ,  $p<.05$ ; Model 5d,  $B=-0.176$ ,  
21 14  $p<.05$ ). However, these associations were not statistically different from men's.

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25 15 Thus, we could not confirm Hypothesis 5a since one's own past unemployment experience  
26 16 among employed people was not significantly related to differences in relationship happiness.  
27 17 However, Hypothesis 5b was confirmed for women: women whose partners experienced  
28 18 unemployment in the past two years were less happy. This was not the case for men, and no  
29 19 significant gender differences were found in these associations.

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35 20 [Table 5]

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37 21  
38 22 **Conclusion**

39  
40 23 Many couples in Britain have experienced precarity due to unemployment, which became  
41 24 particularly acute during the Great Recession (Allen, 2010; Office for National Statistics, 2019). While  
42 25 prior studies have found that unemployment has a detrimental impact on outcomes such as  
43 26 wellbeing (Esche, 2020; Inanc, 2018; Strandh et al., 2014), few studies have investigated relationship  
44 27 happiness. Given the strong association between relationship quality, divorce (Tach & Halpern-  
45 28 Meekin, 2012), and children's outcomes (Harold & Sellers, 2018), it is important to first understand  
46 29 how unemployment is associated with relationship happiness. Our results indicate that  
47 30 unemployment is indeed associated with lower relationship happiness, but that it is not the  
48 31 experience of one's own job loss per se that matters, but instead the general disadvantage that  
49 32 unemployed people face, especially the longer unemployment lasts. We also find what really  
50 33 matters is men's unemployment, which reduces women's happiness with the relationship, providing  
51 34 evidence that the male breadwinner model continues to persist in the UK.

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3 1 In our basic models, we find that both men and women were less happy with their  
4 2 relationship when they were themselves unemployed, compared to their employed counterparts.  
5 3 However, when we investigated changes over time, this was no longer the case; individuals who  
6 4 were employed and then experienced unemployment did not report a decline in relationship  
7 5 happiness. This suggests that while the unemployed are in general less happy with their relationship,  
8 6 the association may be due to the long-term economic hardship that they experience rather than  
9 7 the shock of losing their jobs. It may also be that the original difference in relationship happiness  
10 8 was caused by unobserved confounders and selection.

11 9 Nonetheless, the consequences of unemployment for relationship happiness seemed to  
12 10 become worse the longer people were unemployed, although this was primarily found for women  
13 11 and when their partners were unemployed. This long-term decline in relationship happiness may be  
14 12 due to the emotional (Schauss et al., 2019; von Scheve et al., 2017) or economic consequences (Van  
15 13 Belle et al., 2018) of longer unemployment spells, as posited by the family stress model (Conger et  
16 14 al., 2010). Future research is needed to determine how the stress of unemployment operates and  
17 15 which of these mechanisms is more influential.

18 16 The relationship happiness of those who re-entered employment did not differ from those  
19 17 who had continuous employment. Thus, in accordance with the family stress model, current  
20 18 unemployment differentiates unhappy couples from happy couples, but our findings indicate that  
21 19 over the long-term, unemployment does not have enduring effects for the individual. In contrast,  
22 20 men's unemployment did seem to affect the relationship happiness of the female partner long-term.  
23 21 Women whose husbands were unemployed were less happy with their relationship than women  
24 22 whose partners were employed, and when their husbands lost their jobs, women became less  
25 23 happy. Even after gaining employment, women remained less happy when their partner had  
26 24 experienced unemployment in the recent past. Thus, relationship happiness seems to be scarred by  
27 25 men's past unemployment irrespective of their current status.

28 26 This study highlights the gendered nature of relationships and employment among British  
29 27 couples. Although attitudes have changed in recent decades, many people continue to regard  
30 28 breadwinning as particularly men's responsibility where mothers are often expected to be non- or  
31 29 part-time employed (Scott & Clery, 2013). This traditional pattern may explain why men's  
32 30 unemployment experiences affect women's relationship happiness but hardly vice versa. The  
33 31 involuntary deviation from gendered expectations, in which men are expected to provide income,  
34 32 appears to impact the happiness in partner relationships, at least with respect to unemployment.

35 33 Some limitations of our study must be noted. Our analysis cannot simultaneously model  
36 34 selection into partnerships and relationship happiness, since individuals must be in a partnership to

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1 answer the questions on relationship happiness. In addition, our models do not account for  
2 partnership dissolution, which may underestimate associations between unemployment and  
3 relationship happiness since the least happy relationships are more likely to dissolve. Similarly,  
4 unhappier couples might be more likely to attrite from the survey, resulting in a potential  
5 underestimation of the association between unemployment and relationship happiness. Our  
6 additional analyses however showed that the association between unemployment and relationship  
7 did not differ between couples who separated from those who did not, indicating that the  
8 consequences for a potential selection of happy couples largely would not affect our conclusions.  
9 Furthermore, although the UKHLS has a large sample size, the number of unemployed was quite  
10 small. This was specifically the case when we investigated unemployment duration and re-  
11 employment, which potentially could lead to falsely rejecting hypotheses.

12 Furthermore, the reason for unemployment, whether it was redundancy, the end of a  
13 temporary contract, or dismissal, could have a profound impact on relationship happiness, as well as  
14 providing a good test for any potential causal relationship between unemployment and relationship  
15 happiness (Doiron & Mendolia, 2012). Although this was beyond the scope of this study, comparing  
16 different groups of unemployed people with employed people who have similar unemployment risks  
17 could be a promising avenue for future research. Similarly, the relationship happiness of the  
18 unemployed might be related to the level of financial benefits they receive. This type of research  
19 would provide policy insights into how to counter the consequences of unemployment for  
20 relationships. However, it must be noted that the level of household income did not explain (a lot) of  
21 the association between unemployment and relationship happiness here.

22 Overall, this research indicates that unemployment is associated with unhappier  
23 relationships, particularly when the man is unemployed. For women, relationships are especially at  
24 risk during their partner's unemployment, which can have long-term scarring effects and result in  
25 the accumulation of problems over time. Solely focussing on the currently unemployed thus  
26 overlooks partners' experiences and past experiences. The family stress model has – to our  
27 knowledge –not included these temporal dimensions of economic hardship previously; yet  
28 identifying time points when couples are especially susceptible to economic hardship is extremely  
29 important for informing policies. For example, the British Troubled Families Programme, which aims  
30 to reduce the strain faced by vulnerable families, should recognize the impact of unemployment.  
31 However, these programmes should not only offer relationship support to the unemployed, but also  
32 their partners, guiding them through the period of unemployment and subsequent re-employment.

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34 **References**

- Allen, G. (2010). Recession and recovery. In A. Mellows-Facer (Ed.), *Key Issues for the New Parliament 2010. House of Commons Library Research* (pp. 28–29). London: House of Commons Library.
- Bambra, C., & Popham, F. (2010). Worklessness and regional differences in the social gradient in general health: Evidence from the 2001 English census. *Health & Place, 16*(5), 1014–1021. doi:10.1016/j.healthplace.2010.06.006
- Blom, N., Kraaykamp, G., & Verbakel, E. (2019). Current and Expected Economic Hardship and Satisfaction With Family Life in Europe. *Journal of Family Issues, 40*(1), 3–32. doi:10.1177/0192513X18802328
- Bodenmann, G., Meuwly, N., Germann, J., Nussbeck, F. W., Heinrichs, M., & Bradbury, T. N. (2015). Effects of Stress on the Social Support Provided by Men and Women in Intimate Relationships. *Psychological Science, 26*(10), 1584–1594. doi:10.1177/0956797615594616
- Bourquin, P., Cribb, J., Waters, T., & Xu, X. (2019). *Living standards, poverty and inequality in the UK: 2019*. London, UK: Institute for Fiscal Studies.
- Brown, S. L., Manning, W. D., & Payne, K. K. (2017). Relationship Quality Among Cohabiting Versus Married Couples. *Journal of Family Issues, 38*(12), 1730–1753. doi:10.1177/0192513X15622236
- Conger, R. D., Conger, K. J., & Martin, M. J. (2010). Socioeconomic Status, Family Processes, and Individual Development. *Journal of Marriage and Family, 72*(3), 685–704. doi:10.1111/j.1741-3737.2010.00725.x.Socioeconomic
- Daly, M., & Delaney, L. (2013). The scarring effect of unemployment throughout adulthood on psychological distress at age 50: Estimates controlling for early adulthood distress and childhood psychological factors. *Social Science & Medicine, 80*, 19–23. doi:10.1016/j.socscimed.2012.12.008
- Doiron, D., & Mendolia, S. (2012). The impact of job loss on family dissolution. *Journal of Population Economics, 25*(1), 367–398. doi:10.1007/s00148-010-0353-5
- Esche, F. (2020). Is the problem mine, yours, or ours? The impact of unemployment on couples' life satisfaction and specific domain satisfaction. *Advances in Life Course Research*. doi:10.1016/j.alcr.2020.100354
- Hansen, H. T. (2005). Unemployment and marital dissolution: A panel data study of Norway. *European Sociological Review, 21*(2), 135–148. doi:10.1093/esr/jci009
- Hardie, J. H., Geist, C., & Lucas, A. (2014). His and hers: Economic factors and relationship quality in Germany. *Journal of Marriage and Family, 76*(4), 728–743. doi:10.1111/jomf.12129
- Harold, G. T., & Sellers, R. (2018). Annual Research Review: Interparental conflict and youth

- psychopathology: an evidence review and practice focused update. *The Journal of Child Psychology and Psychiatry*, 59(4), 374–402. doi:10.1111/jcpp.12893
- Headey, B. (2010). The set point theory of well-being has serious flaws: On the eve of a scientific revolution? *Social Indicators Research*, 97(1), 7–21. doi:10.1007/s11205-009-9559-x
- Heggebø, K., & Elstad, J. I. (2018). Is it Easier to Be Unemployed When the Experience Is More Widely Shared? Effects of Unemployment on Self-rated Health in 25 European Countries with Diverging Macroeconomic Conditions. *European Sociological Review*, 34(1), 22–39. doi:10.1093/esr/jcx080
- Inanc, H. (2015). Unemployment and the timing of parenthood: Implications of partnership status and partner's employment. *Demographic Research*, 32(7), 219–250. doi:10.4054/DemRes.2015.32.7
- Inanc, H. (2018). Unemployment, Temporary Work, and Subjective Well-Being: The Gendered Effect of Spousal Labor Market Insecurity. *American Sociological Review*, 83(3), 536–566. doi:10.1177/0003122418772061
- Jahoda, M. (1982). *Employment and unemployment. A social-psychological analysis*. Cambridge, UK: Cambridge University Press.
- Janlert, U., Winefield, A. H., & Hammarström, A. (2014). Length of unemployment and health-related outcomes: a life-course analysis. *European Journal of Public Health*, 25(4), 662–667. doi:10.1093/eurpub/cku186
- Kinnunen, U., & Feldt, T. (2004). Economic stress and marital adjustment among couples: Analyses at the dyadic level. *European Journal of Social Psychology*, 34(5), 519–532. doi:10.1002/ejsp.213
- Kinnunen, U., & Pulkkinen, L. E. A. (1998). Linking Economic Stress to Marital Quality Among Finnish Marital Couples: Mediator Effects. *Journal of Family Issues*, 19(6), 705–724. doi:10.1177/019251398019006003
- Lepore, S. J., Evans, G. W., & Schneider, M. L. (1991). Dynamic Role of Social Support in the Link Between Chronic Stress and Psychological Distress. *Interpersonal Relations and Group Processes*, 61(6), 899–909. doi:10.1037//0022-3514.61.6.899
- Lucas, R. E., Clark, A. E., Georgellis, Y., & Diener, E. (2004). Unemployment Alters the Set Point for Life Satisfaction. *Psychological Science*, 15(1), 8–13. doi:10.1111/j.0963-7214.2004.01501002.x
- Luhmann, M., Hofmann, W., Eid, M., & Lucas, R. E. (2012). Subjective Well-Being and Adaptation to Life Events: A Meta-Analysis on Differences Between Cognitive and Affective Well-Being. *Journal of Personality and Social Psychology*, 102(3), 592–615. doi:10.1037/a0025948

- Lynn, P., Burton, J., Kaminska, O., Knies, G., & Nandi, A. (2012). *An Initial Look at Non-Response and Attrition in Understanding Society* (Understanding Society Working Paper Series No. 2012-02).
- Merolla, A. J. (2017). A longitudinal analysis of financial loss, anxiety, destructive conflict, and relational maintenance. *Personal Relationships*, 24(4), 729–747. doi:10.1111/pere.12206
- Mossakowski, K. N. (2009). The Influence of Past Unemployment Duration on Symptoms of Depression Among Young Women and Men in the United States. *American Journal of Public Health*, 99(10), 1826–1832. doi:10.2105/AJPH.2008.152561
- Mousteri, V., Daly, M., & Delaney, L. (2018). The scarring effect of unemployment on psychological well-being across Europe. *Social Science Research*, 72(January), 146–169. doi:10.1016/j.ssresearch.2018.01.007
- Neff, L. A., & Karney, B. R. (2017). Acknowledging the elephant in the room: how stressful environmental contexts shape relationship dynamics. *Current Opinion in Psychology*, 13, 107–110. doi:10.1016/j.copsyc.2016.05.013
- Office for National Statistics. (2019). Unemployment rate (aged 16 and over, seasonally adjusted). Retrieved August 30, 2019, from <https://www.ons.gov.uk/employmentandlabourmarket/peopleinwork/unemployment/timeseries/mgsx/lms>
- Rao, A. H. (2017). Stand By Your Man: Wives' Emotion Work During Men's Unemployment. *Journal of Marriage and Family*, 79(3), 636–656. doi:10.1111/jomf.12385
- Robles, T. F., Slatcher, R. B., Trombello, J. M., & McGinn, M. M. (2014). Marital Quality and Health: A Meta-Analytic Review. *Psychological Bulletin*, 140(1), 140–187. doi:10.1037/a0031859
- Schauss, E., Howell, K., & Ellmo, F. (2019). How Do Couples Cope With Unemployment: Examining Relationships Among Support, Undermining, and Depression. *The Family Journal*. doi:10.1177/1066480719835338
- Scott, J., & Clery, E. (2013). Gender roles: An incomplete revolution? In A. Park, C. Bryson, E. Clery, J. Curtice, & M. Phillips (Eds.), *British Social Attitudes 30* (pp. 115–139). London: NatCen Social Research.
- Shahidi, F. V. (2015). Welfare Capitalism in Crisis: A Qualitative Comparative Analysis of Labour Market Policy Responses to the Great Recession. *Journal of Social Policy*, 44(4), 659–686. doi:10.1017/S004727941500029X
- Strandh, M., Hammarström, A., Nilsson, K., Nordenmark, M., & Russel, H. (2013). Unemployment, gender and mental health: The role of the gender regime. *Sociology of Health and Illness*,



1  
2  
3 1 35(5), 649–665. doi:10.1111/j.1467-9566.2012.01517.x  
4  
5 2 Strandh, M., Winefield, A., Nilsson, K., & Hammarström, A. (2014). Unemployment and mental  
6 3 health scarring during the life course. *European Journal of Public Health*, 24(3), 440–445.  
7 4 doi:10.1093/eurpub/cku005  
8  
9 5 Suh, E., Diener, E., & Fujita, F. (1996). Events and subjective well-being: only recent events matter.  
10 6 *Journal of Personality and Social Psychology*, 70(5), 1091–1102. doi:10.1037/0022-  
11 7 3514.70.5.1091  
12  
13 8 Tach, L. M., & Halpern-Meekin, S. (2012). Marital Quality and Divorce Decisions: How Do Premarital  
14 9 Cohabitation and Nonmarital Childbearing Matter? *Family Relations*, 61(4), 571–585. doi:  
15 10 10.1111/j.1741-3729.2012.00724.x  
16  
17 11 Townsend, N. W. (2002). *The package deal: Marriage, work, and fatherhood in men's lives*.  
18 12 Philadelphia: Temple University Press.  
19  
20 13 Van Belle, E., Di Stasio, V., Caers, R., De Couck, M., & Baert, S. (2018). Why Are Employers Put Off by  
21 14 Long Spells of Unemployment? *European Sociological Review*, 34(6), 694–710.  
22 15 doi:10.1093/esr/jcy039  
23  
24 16 von Scheve, C., Esche, F., & Schupp, J. (2017). The Emotional Timeline of Unemployment:  
25 17 Anticipation, Reaction, and Adaptation. *Journal of Happiness Studies*, 18(4), 1231–1254.  
26 18 doi:10.1007/s10902-016-9773-6  
27  
28 19 West, C., & Zimmerman, D. H. (1987). Doing Gender. *Gender & Society*, 1(2), 125–151.  
29 20 doi:10.1177/0891243287001002002  
30  
31 21 Zhou, Y., Zou, M., Woods, S. A., & Wu, C. (2019). The Restorative Effect of Work After  
32 22 Unemployment: An Intraindividual Analysis of Subjective Well-Being Recovery Through  
33 23 Reemployment. *Journal of Applied Psychology*. doi:10.1037/apl0000393  
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**Endnotes**

<sup>i</sup> Here we investigate relationship happiness, which is a part of the broader concept of relationship quality. We refer to relationship happiness when discussing our study and to relationship quality when we discuss previous literature on other but related aspects of relationship quality.  
<sup>ii</sup> Including more detailed indicators of ethnicity and education in the larger samples (Models 1c-d, 5c-d) did not lead to different conclusions.  
<sup>iii</sup> In additional analyses we controlled for potential childhood background selection mechanisms namely (highest) parental socioeconomic background (National Statistics Socio-economic Classification plus not employed category), relationship status of the parents when respondent was 14, and age of mother at birth (<20, 20-24, 25<, missing). Including these indicators in the larger samples (Models 1c-d, 5c-d) did not lead to different conclusions.  
<sup>iv</sup> The number of men whose partner was unemployed and the duration of her unemployment was known was very low, making random effect analyses impossible. Therefore OLS regression was employed for this group.



Table 1. Descriptive statistics for the various samples.

	Unemployment		Own		Partner		Unemployment	
	Status (Models 1 and 2)		Unemployment duration (Model 3)		Unemployment duration (Model 4)		history (Models 5)	
	Men	Women	Men	Women	Men	Women	Men	Women
	Mean/% (SD)	Mean/% (SD)	Mean/% (SD)	Mean/% (SD)	Mean/% (SD)	Mean/% (SD)	Mean/% (SD)	Mean/% (SD)
Relationship happiness (1-7)	4.9 (1.3)	4.9 (1.4)	4.7 (1.4)	4.7 (1.5)	4.6 (1.4)	4.6 (1.5)	4.9 (1.3)	4.9 (1.4)
<i>Job status</i>								
Employed	90.2	74.7			72.8	48.7		
Continuously employed							85.1	70.2
Re-employed							2.4	1.3
Unemployed	5.7	3.5			20.5	15.9	7.1	4.2
Other	4.1	21.9			6.6	35.4	5.4	24.3
Own Unemployment duration (months)(0-59)			23.7 (23.0)	21.7 (22.0)				
<i>Partner job status</i>								
Employed	74.4	90.4	48.7	65.4				
Continuously employed							69.4	84
Re-employed							1.3	2.3
Unemployed	3.6	5.5	17.2	24.5			4.3	7.6
Other	22	4.1	34.1	10.1			25	6.1
Partner Unempl.dur. (0-59)					18.1 (19.8)	23.6 (22.9)		
<i>Income</i>								
1 <sup>st</sup> quartile	25.2	24.8	28.1	19.5	14.0	28.2	25.1	24.9
2nd quartile	24.9	25	27.4	19.3	20.0	27.5	25	25
3rd quartile	24.9	25.1	25.9	22.9	23.8	26.3	24.9	25
4th quartile	25.0	25.1	18.6	38.4	42.1	18.1	25.0	25.1
<i>Health</i>								
Excellent/very good	56.9	56.7	39.7	39.9	47.7	38.3	55.8	55.8
Good	28.8	28.5	34.9	32.4	31.8	28.7	29.0	28.3
Poor/Fair	14.3	14.8	25.4	27.7	20.5	33.0	15.2	15.9
<i>Health partner</i>								
Excellent/very good	56.6	57.6	37.8	43.0	41.1	41.5	55.9	55.6
Good	28.4	28.3	28.7	32.0	35.1	34.8	28.3	28.7
Poor/Fair	15.0	14.1	33.5	25.0	23.8	23.7	15.8	15.7
<i>Age (20-60)</i>	42.8 (9.6)	40.6 (9.6)	41.9 (10.7)	38.8 (10.7)	41.1 (10.9)	38.7 (10.7)	43.1(9.4)	40.9(9.5)
<i>Relation. durat. (years) (0-44)</i>	14.4 (9.8)	14.5 (9.8)	13.7 (10.6)	10.7 (10.1)	10.7 (9.8)	13.0 (10.5)	14.6(9.8)	14.7(9.8)
<i>Had prior relationship</i>								
No	69.2	69.5	65.5	52.4	58.1	62.1	68.5	68.7
Yes	30.8	30.5	34.5	47.6	41.9	37.9	31.5	31.3
<i>Marital status</i>								
Cohabiting	22.1	22.2	41.4	41.5	38.4	42.2	21.2	21.5
Married	77.9	77.8	58.6	58.5	61.6	57.8	78.8	78.5
<i>Parental Status</i>								
No child	18.4	17.8	17.9	29.8	25.8	17.8	16.9	17.5
Child in household	70.3	72.3	67.6	54.8	51.7	70.4	71.2	71.9
Child outside household	11.3	9.9	14.5	15.4	22.5	11.8	12	10.6
<i>Education</i>								
Higher	44	48.3	24.2	30.3	33.8	25.4	43.4	48.3
Middle	21.2	17.8	17.4	18.6	21.2	13.5	21.3	17.6
Lower	34.8	33.8	58.4	51.1	45	61.1	35.3	34.1
<i>Ethnicity</i>								
White British	79	77.5	77.2	75.9	76.0	74.5	81.9	79.9
Other	21	22.5	22.8	24.1	24.0	25.5	18.1	20.1
<i>Region</i>								
North East	4.4	4.4					4.7	4.8
North West	11	10.7					10.9	10.7
Yorkshire and the Humber	8.6	8.7					8.7	8.6
East Midlands	8.1	8.2					8.4	8.2
West Midlands	8.7	8.3					8.8	8.7
East of England	9.6	9.8					9.4	9.5
London	12.6	12.3					11	10.8
South East	13.4	13.7					13.9	14
South West	8.7	8.9					9.3	9.6
Wales	4.3	4.2					4.3	4.4
Scotland	6.8	6.8					7	7.1
Northern Ireland	3.8	3.8					3.5	3.5
<i>Wave</i>								
1	32.1	31.8	35.4	28.2	32.5	36.1	29.8	30.2
3	25.9	26.1	22.0	19.7	18.5	22.7	26.3	26.4
5	21.7	22.1	26.6	33.5	32.5	25.8	25.4	25.3

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7	20.3	20	16.0	18.6	16.6	15.4	18.5	18.1
Number of observation	21,014	23,668	413	188	151	415	14,197	14,544
Number of people	9,854	10,897	334	165	151	337	6,115	6,220
Observation per person (1-4)	2.1 (1.1)	2.2 (1.2)	1.2 (0.6)	1.1 (0.5)	1 (0)	1.2 (0.6)	2.3 (1.1)	2.3 (1.2)

Range is shown after variable label between brackets

For Peer Review

Table 2. Employment status and Relationship Happiness, Random effects analyses

Panel 1: Men										
	Model 1a			Model 1b			Model 1c		Model 1d	
	B		SE	B		SE	B		B	SE
<i>Own Job status</i>										
Employed	Ref.						Ref.		Ref.	
Unemployed	-0.175	***	0.043				-0.098	*	-0.094	*
Other	<b>-0.291</b>	***	<b>0.057</b>				-0.068		-0.062	
<i>Partner job status</i>										
Employed				Ref.			Ref.		Ref.	
Unemployed				<b>-0.095</b>	#	<b>0.049</b>	<b>-0.025</b>		<b>-0.015</b>	
Other				<b>-0.057</b>	*	<b>0.025</b>	<b>0.043</b>	#	<b>0.047</b>	#
Household income										
1st quartile									Ref.	
2nd quartile									-0.031	0.028
3rd quartile									-0.006	0.030
4th quartile									0.078	*
Controls	No			No			Yes		Yes	
Panel 2: Women										
	Model 1a			Model 1b			Model 1c		Model 1d	
	B		SE	B		SE	B		B	SE
<i>Own Job status</i>										
Employed	Ref.						Ref.		Ref.	
Unemployed	-0.170	***	0.050				-0.099	#	-0.084	#
Other	<b>-0.065</b>	**	<b>0.024</b>				0.039		0.050	#
<i>Partner job status</i>										
Employed				Ref.			Ref.		Ref.	
Unemployed				<b>-0.232</b>	***	<b>0.043</b>	<b>-0.165</b>	***	<b>-0.147</b>	***
Other				<b>-0.337</b>	***	<b>0.053</b>	<b>-0.162</b>	**	<b>-0.147</b>	**
Household income										
1st quartile									Ref.	
2nd quartile									0.014	0.027
3rd quartile									0.054	#
4th quartile									0.065	*
Controls	No			No			Yes		Yes	

Source: UKHLS, 2009-2017. # p<.1, \* p<.05, \*\* p<.01, \*\*\* p<.001, bold indicates significant (p<.05) difference between men and women. Controls are presence of children, age, educational attainment, ethnicity, individual health status, prior relationship experience, partner's health status, marital status, relationship duration, region, wave.

Table 3. Changes in Employment status and Relationship Happiness, Fixed effects analyses

Panel 1: Men								
	Model 2a		Model 2b		Model 2c		Model 2d	
	B	SE	B	SE	B	SE	B	SE
<i>Own Job status</i>								
Employed	Ref.				Ref.		Ref.	
Unemployed	-0.057	0.067			-0.102	0.066	-0.105	0.067
Other	0.001	0.110			0.034	0.105	0.034	0.105
<i>Partner job status</i>								
Employed					Ref.		Ref.	
Unemployed			0.046	0.069	0.022	0.069	0.022	0.069
Other			<b>0.103</b>	*	<b>0.040</b>	*	0.093	*
<i>Household income</i>								
1st quartile							Ref.	
2nd quartile							-0.036	0.038
3rd quartile							-0.032	0.045
4th quartile							0.055	0.052
Controls	No		No		Yes		Yes	
Panel 2: Women								
	Model 2a		Model 2b		Model 2c		Model 2d	
	B	SE	B	SE	B	SE	B	SE
<i>Own Job status</i>								
Employed	Ref.				Ref.		Ref.	
Unemployed	0.069	0.070			0.044	0.070	0.047	0.070
Other	0.102	**			0.089	*	0.091	*
<i>Partner job status</i>								
Employed			Ref.		Ref.		Ref.	
Unemployed			-0.078	0.063	-0.125	*	-0.122	#
Other			<b>-0.136</b>	<b>0.099</b>	-0.104		-0.102	
<i>Household income</i>								
1st quartile							Ref.	
2nd quartile							0.000	0.035
3rd quartile							0.003	0.042
4th quartile							0.031	0.049
Controls	No		No		Yes		Yes	

Source: UKHLS, 2009-2017. # p<.1, \* p<.05, \*\* p<.01, \*\*\* p<.001, bold indicates significant (p<.05) difference between men and women. Controls are presence of children, age, individual health status, partner’s health status, marital status, relationship duration, wave.

Table 4. Relationship happiness and duration of current unemployment spell, random effect and OLS models.

Panel 1: Men, own unemployment duration							
	Model 3a		Model 3b		Model 3c		
	B	SE	B	SE	B	SE	
Own unemployment duration	-0.010 *	0.005	-0.003	0.006	-0.003	0.006	
Own unemployment duration squared	0.000	0.000	0.000	0.000	0.000	0.000	
<i>Partner job status</i>							
Employed			Ref.		Ref.		
Unemployed			-0.175	0.220	-0.190	0.225	
Other			-0.018	0.189	-0.020	0.192	
<i>Household income</i>							
1st quartile					Ref.		
2nd quartile					0.155	0.198	
3rd quartile					0.013	0.204	
4th quartile					-0.047	0.207	
Controls	No		Yes		Yes		
Panel 2: Men, partner's unemployment duration							
	Model 4a		Model 4b		Model 4c		
	B	SE	B	SE	B	SE	
Partner's unemployment duration	-0.016 #	0.009	-0.017 #	0.009	-0.018 #	0.010	
Partner's unemployment duration squared	0.000	0.000	0.000	0.000	0.000	0.000	
<i>Own job status</i>							
Employed			Ref.		Ref.		
Unemployed			-0.344	0.439	-0.344	0.455	
Other			-0.865 #	0.448	-0.937 #	0.482	
<i>Household income</i>							
1st quartile					Ref.		
2nd quartile					0.524	0.389	
3rd quartile					0.106	0.372	
4th quartile					0.402	0.335	
Controls	No		Yes		Yes		
Panel 3: Women, own unemployment duration							
	Model 3a		Model 3b		Model 3c		
	B	SE	B	SE	B	SE	
Own unemployment duration	-0.017 *	0.008	-0.015 #	0.008	-0.016 #	0.008	
Own unemployment duration squared	0.000	0.000	0.001 #	0.000	0.001 #	0.000	
<i>Partner job status</i>							
Employed			Ref.		Ref.		
Unemployed			0.416	0.303	0.409	0.350	
Other			0.305	0.448	0.260	0.445	
<i>Household income</i>							
1st quartile					Ref.		
2nd quartile					0.278	0.348	
3rd quartile					-0.337	0.328	
4th quartile					0.104	0.316	
Controls	No		Yes		Yes		
Panel 4: Women, partner's unemployment duration							
	Model 4a		Model 4b		Model 4c		
	B	SE	B	SE	B	SE	
Partner's unemployment duration	-0.014 **	0.005	-0.010 #	0.005	-0.010 #	0.005	
Partner's unemployment duration squared	0.000 #	0.000	0.000	0.000	0.000	0.000	
<i>Own job status</i>							
Employed			Ref.		Ref.		
Unemployed			-0.028	0.225	-0.042	0.233	
Other			-0.167	0.214	-0.177	0.217	
<i>Household income</i>							
1st quartile					Ref.		
2nd quartile					0.115	0.215	
3rd quartile					-0.109	0.203	
4th quartile					-0.043	0.243	
Controls	No		Yes		Yes		

Source: UKHLS, 2009-2017. #  $p < .1$ , \*  $p < .05$ , \*\*  $p < .01$ , \*\*\*  $p < .001$ , bold indicates significant ( $p < .05$ ) difference between men and women. Controls are presence of children, age, educational attainment, ethnicity, individual health status, prior relationship experience, partner's health status, marital status, relationship duration, wave.

Table 5. Past unemployment experience and Relationship Happiness, Random effects analyses

Panel 1: Men								
	Model 5a		Model 5b		Model 5c		Model 5d	
	B	SE	B	SE	B	SE	B	SE
<i>Own Job status</i>								
Continuously employed	Ref.				Ref.		Ref.	
Re-employed	-0.060	0.072			0.014	0.071	0.020	0.071
Unemployed	-0.198 ***	0.047			-0.110 *	0.049	-0.101 *	0.051
Other	<b>-0.334 ***</b>	<b>0.062</b>			<b>-0.110 #</b>	<b>0.064</b>	<b>-0.100</b>	<b>0.065</b>
<i>Partner job status</i>								
Continuously employed			Ref.		Ref.		Ref.	
Re-employed			-0.012	0.089	-0.024	0.088	-0.020	0.087
Unemployed			-0.182 **	0.058	<b>-0.093</b>	<b>0.059</b>	<b>-0.080</b>	<b>0.059</b>
Other			<b>-0.093 **</b>	<b>0.030</b>	<b>0.013</b>	<b>0.031</b>	<b>0.020</b>	<b>0.032</b>
Household income								
1st quartile							Ref.	
2nd quartile							-0.026	0.035
3rd quartile							-0.008	0.039
4th quartile							0.110 **	0.042
Controls	No		No		Yes		Yes	
Panel 2: Women								
	Model 5a		Model 5b		Model 5c		Model 5d	
	B	SE	B	SE	B	SE	B	SE
<i>Own Job status</i>								
Continuously employed	Ref.				Ref.		Ref.	
Re-employed	-0.020	0.092			-0.033	0.088	-0.033	0.088
Unemployed	-0.150 *	0.059			-0.033	0.060	-0.025	0.061
Other	<b>-0.094 **</b>	<b>0.030</b>			<b>0.042</b>	<b>0.032</b>	<b>0.046</b>	<b>0.033</b>
<i>Partner job status</i>								
Continuously employed			Ref.		Ref.		Ref.	
Re-employed			-0.226 **	0.079	-0.180 *	0.078	-0.176 *	0.078
Unemployed			-0.328 ***	0.049	<b>-0.255 ***</b>	<b>0.051</b>	<b>-0.245 ***</b>	<b>0.053</b>
Other			<b>-0.427 ***</b>	<b>0.057</b>	<b>-0.253 ***</b>	<b>0.061</b>	<b>-0.243 ***</b>	<b>0.062</b>
Household income								
1st quartile							Ref.	
2nd quartile							0.001	0.034
3rd quartile							0.014	0.038
4th quartile							0.061	0.041
Controls	No		No		Yes		Yes	

Source: UKHLS, 2009-2017. # p<.1, \* p<.05, \*\* p<.01, \*\*\* p<.001, bold indicates significant (p<.05) difference between men and women. Controls are presence of children, age, educational attainment, ethnicity, individual health status, prior relationship experience, partner's health status, marital status, relationship duration, region, wave.