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Life Satisfaction and Austerity:

Expectations and the Macroeconomy

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Abstract

This paper examines the linkages between fiscal austerity and life satisfaction across thirteen European countries using a sample of repeated cross-sections of individuals from 1999 to 2009. Austerity policies may trigger several responses at both the macro and micro-level, which in turn may affect life satisfaction directly or indirectly. We employ a structural equation modelling approach to account for these complex relationships linking austerity to life satisfaction, the macroeconomic environment, an individual's expectations, and the probability of becoming unemployed. We find that austerity is inversely associated with life satisfaction, with a substantial effect operating through an increase in the unemployment rate. In all of the specifications there is also strong evidence of austerity dampening optimism about the future.

Keywords: Expectations; Fiscal Austerity; Life Satisfaction; Macroeconomic Environment

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1 Introduction and Background

This paper provides new empirical evidence on the economic implications of austerity by conducting empirical analysis of the relationship between austerity and life satisfaction. We apply structural equation modelling (SEM) techniques which allow us to comprehensively identify and explore the relative importance of the potential mechanisms underlying the relationship between life satisfaction and austerity measures. Specifically, we analyse information from repeated cross-sections of individuals in Europe between 1999 and 2009, sourced by the Eurobarometer, to explore whether a direct effect of austerity policies on life satisfaction exists (such as via reduced public services) as well as whether austerity affects life satisfaction indirectly via channels operating at the macro-level (i.e., changes in the unemployment rate and economic growth), and at the micro-level. At the micro-level, we investigate whether austerity is linked to individuals' expectations and the probability of becoming unemployed (which in turn may be shaped by the unemployment rate and economic growth). Although a SEM approach has been previously used to model life satisfaction (see e.g. Powdthavee and Wooden, 2015), to date it has not been used to shed light on the complex channels via which macroeconomic fundamentals and policy influence life satisfaction.

An extensive economics literature exists exploring the relationship between fiscal austerity and the macroeconomic environment, whilst, in stark contrast, there is sparse evidence on the impact of austerity on individual level outcomes such as life satisfaction.¹ Austerity is defined as a set of fiscal policies aimed at reducing the deficit of a country via a combination of tax increases and reductions in government spending. Such policies were at the centre of the debate in the aftermath of the Great Recession of 2007 and 2008. The crisis severely weakened European economies, and austerity measures were implemented to consolidate fiscal imbalances.

Economists typically agree that austerity is unavoidable when a country has lost the confidence of its creditors (Gros, 2013). However, there is less agreement about whether

¹See, for example, Alesina and Ardagna (2010); Cloyne (2013); Guajardo et al. (2014); Romer and Romer (2010).

austerity is an adequate response at the time of a recession. The conventional wisdom, based upon Keynesian models, is that a cut in government spending or an increase in taxation has contractionary effects in the short-run, i.e. declining output and higher unemployment (Cloyne, 2013; Guajardo et al., 2014; Romer and Romer, 2010, for empirical evidence). Contrary to the standard prediction of Keynesian models, Blanchard (1990), among others, shows that, theoretically, fiscal consolidation can stimulate consumption. Several empirical studies provide support for the notion of expansionary fiscal consolidations (Alesina et al., 2002; Alesina and Ardagna, 2010; Giavazzi and Pagano, 1990).² Essentially, this strand of the economics literature states that fiscal consolidation today may help to avoid a larger adjustment in the future (Blanchard, 1990), thereby improving the confidence of consumers and investors.³

Previous studies have shown that the consequences of recessions for communities and households are far-reaching, as economic slowdowns can have substantial impacts on the psychological wellbeing of individuals (De Neve et al., 2018), especially if they are preceded by banking crises (Montagnoli and Moro, 2018). Recent evidence suggests that the economic crisis in Europe and the implementation of austerity policies had a significant positive impact on suicide rates (Antonakakis and Collins, 2014, 2015), has worsened self-reported health status, (Kentikelenis et al., 2011), and has increased the incidence of mental disorders and alcohol abuse (Gili et al., 2012; Roca et al., 2013).

Our paper also relates to existing studies exploring the macroeconomic determinants of life satisfaction. This literature has mainly focused on variables such as unemployment and output growth. A seminal contribution by Di Tella et al. (2001) shows that both higher inflation and unemployment decrease life satisfaction, but the impact of unemployment is stronger; for a more recent analysis, see Blanchflower et al. (2014).⁴ However, the relationship between austerity and life satisfaction is ambiguous as it may operate directly and/or indirectly via changes to the macroeconomic environment, in addition, as

²According to this strand of the literature, expansionary, or at least non-contractionary, fiscal consolidations are more likely when the consolidation is implemented mainly through cutting government spending, as opposed to raising taxes (Alesina et al., 2015; Alesina and Ardagna, 2013, 1998).

³This generates a reduction in long-term interest rates and thus compensates the Keynesian effect of tax increases and spending cuts (Alesina and Ardagna, 2013).

⁴Earlier work in this area can be traced back to Easterlin (1974).

indicated above the effect of austerity policies on the macroeconomic environment is not clear-cut. Besides, with respect to the direct effects, the existing literature is ambiguous regarding the effect of government spending on life satisfaction.⁵ On the one hand, Di Tella et al. (2006) find that higher unemployment benefits are positively related to wellbeing, thereby suggesting that the welfare state can help to mitigate the costs of business cycle fluctuations.⁶ On the other hand, Bjørnskov et al. (2007) find that wellbeing is negatively associated with higher government spending, while the results of Di Tella and MacCulloch (2005), Ram (2009) and Oishi et al. (2012) suggest no relationship. As Bjørnskov et al. (2007) and Hessami (2010) argue, the absence of a relationship between government size and life satisfaction is consistent with the traditional welfare economics view. Moreover, Hessami (2010) shows that the effect of government size on wellbeing displays an inverse U-shape. Hence, our SEM approach serves to disentangle such direct and indirect effects of austerity on life satisfaction and sheds further light on the channels via which the macroeconomic environment influences life satisfaction.

To further our understanding of the relationship between austerity and life satisfaction, we explore the effect of individuals' expectations. It is apparent that expectations are likely to be influenced by the macroeconomy, which in turn is influenced by austerity measures. For example, the role of expectations about the future is crucial in the context of non-Keynesian effects of fiscal policy. As Giavazzi and Pagano (1990) argue, if austerity is perceived by the private sector as a signal that the share of government spending in GDP is being permanently reduced, households may upwardly revise their permanent income expectations, leading to higher current and planned spending.

Hence, on the basis of these arguments, fiscal consolidation may in fact increase individuals' feelings of wellbeing. In a related study, Alesina et al. (2015) find that following the initiation of an expenditure-based adjustment, business confidence (unlike consumer confidence) picks up immediately.⁷

 $^{{}^{5}}$ The literature on the effects of taxation on life satisfaction is not as extensive. For example, Flavin et al. (2011) find that higher tax revenue (as proportion of GDP) is associated with higher life satisfaction.

⁶Other studies that provide evidence consistent with the idea that the welfare state contributes to wellbeing include: Pacek and Radcliff (2008); Haller and Hadler (2006) and Kotakorpi and Laamanen (2010).

⁷In accordance with Alesina et al. (2015), Beetsma et al. (2015) use data on fiscal plans and examine

In our paper expectations enter the model because of their link with the macroeconomy and austerity. However, we also recognise that expectations may affect life satisfaction directly. In this sense, our work makes also a contribution to the empirical literature on the impact of expectations on SWB, which is somewhat limited. Existing studies tend to identify a positive effect on current wellbeing from optimistic income expectations (Senik (2004); Senik (2008); Frijters et al. (2012)). As Frijters et al. (2012) point out, the effect of expectations on individuals' happiness has only recently started to receive attention in the empirical literature, despite the presence of long-standing theories that highlight the importance of income expectations for happiness.⁸ Our SEM approach allows us to explore how expectations affect life satisfaction directly as well as allowing for a further indirect effect of austerity operating via the macroeconomy and/or expectations.

In order to explore the relationship between the austerity, expectations and life satisfaction, we create a dataset by merging the Eurobarometer surveys, which include information on individuals' life satisfaction, expectations, employment status, with macroeconomic information on the unemployment rates and the GDP growth across a sample of OECD countries. Moreover, we adopt the measure of austerity introduced by Guajardo et al. (2014). They propose a so-called "narrative approach" to obtain austerity shocks that are uncorrelated with other macroeconomic changes. The so called "narrative approach" involves the examination of contemporaneous policy documents to identify fiscal policy shifts that aim to reduce the budget deficit, as opposed to responding to prospective economic conditions.

Summarising our results, we find that austerity is inversely associated with life satisfaction, with the effect operating through an economic channel. Our findings are in line

the response of confidence to fiscal consolidation. They show that consumer confidence declines around announcements of consolidation measures, with the effect being stronger for revenue-based adjustments.

⁸In line with the "tunnel effect" theory, originally developed by Hirschman and Rothschild (1973), Senik (2004) argues that even poor individuals may derive utility from rising income inequality, if they interpret it as a positive signal for possible future outcomes. Hence, if austerity increases income inequality, as suggested by Ball et al. (2013) and Woo et al. (2013), the "tunnel effect" may lead to higher SWB. However, several recent papers surveyed in Ferrer-i Carbonell et al. (2013) suggest that individuals dislike inequality. For example, Alesina et al. (2004) find that individuals have a lower tendency to report themselves happy when inequality is high. Furthermore, the distributional effects of fiscal consolidation constitute a question that is still not fully settled in the existing literature due to data availability and timing issues, among other reasons (Perotti (1996); Joumard et al. (2012)). Therefore, the role of expectations in the relationship between austerity and life satisfaction is an area ripe for exploration.

with the macroeconomic literature, which argues that austerity changes the underlying macroeconomic conditions, specifically in our analysis, the unemployment rate. This in turn affects life satisfaction at the individual level, with the effects operating via this aspect of the macroeconomic environment being substantial in magnitude.

With respect to policy implications, evaluating whether austerity measures negatively or positively affect life satisfaction can inform policymakers on the context of both economic and social policy and, ultimately, on the voting intentions of the individuals. Furthermore, if austerity measures cause a deterioration in wellbeing and life satisfaction, it may be the case that this leads to further economic effects such as reductions in worker productivity (e.g. Bryson et al., 2014). When evaluating the effects of austerity measures, it is thus important to take such effects on individual wellbeing into consideration rather than purely concentrating on macroeconomic and financial issues. Consideration of the wider effects of austerity measures could potentially enhance the effectiveness of social and economic policy serving to narrow social inequalities and enhance health outcomes.

The paper is organised as follows. The next section presents the conceptual framework, Section 3 documents the data and the econometric setting. Section 4 discusses the results and Section 5 concludes.

2 The Conceptual Framework

The discussion of the existing literature on austerity, life satisfaction and expectations presented in the previous section serves to highlight the complex nature of the potential direct and indirect effects at play. Mediation analysis is ideally suited to help disentangle these relationships. Our modelling approach is summarised in Figure 1, which illustrates the potential channels via which austerity affects life satisfaction. Our analysis starts from the premise of a link between life satisfaction and the macroeconomic environment as established in the existing literature. We introduce two novel features into this modelling framework. Firstly, we explore the effect of austerity on life satisfaction and, secondly, we investigate the role that expectations have in shaping life satisfaction in part by transmitting the effects of shocks (in this case fiscal shocks). Key to our framework is the impact of austerity policies. Our first hypothesis states that austerity shocks, defined as an unexpected change (tightening) in public finances, has a direct effect on individuals' life satisfaction, expectations and employment status. Our prior is that these policies have a negative effect on all three outcomes, lowering life satisfaction, leading to less optimistic expectations and increasing the probability of being unemployed.

Furthermore, following the macroeconomic literature that has established that the economic environment is directly affected by policy shocks (see e.g. Guajardo et al., 2014), we allow for this in our conceptual framework. Specifically, we predict that austerity shocks directly affect the unemployment rate (positively) and GDP growth (negatively).

We allow employment status to directly influence the individual's life satisfaction and expectations. Here, there is consensus in the existing literature that the individual's employment status is a key determinant of their life satisfaction (see e.g. Clark and Oswald, 1996). In contrast, there is less empirical evidence relating to the effect on individuals' expectations.

Our modelling framework allows the macroeconomic environment to have a direct effect on life satisfaction, employment status and expectations. The first two links are quite intuitive, with extensive support in the existing literature. For example, the link between the macroeconomic environment and life satisfaction has been investigated by, among others, Blanchflower et al. (2014) and Di Tella et al. (2006). Using both European and US data, they show how a deterioration in the macroeconomic fundamentals and, in particular, an increase in unemployment has a strong direct impact on the life satisfaction of individuals.

The existing empirical literature on the relationship between the macroeconomic environment and individuals' expectations is relatively sparse. To the best of our knowledge, this link has never been formally tested within the framework depicted in Figure 1. Our hypothesis is that the macroeconomic environment in which an individual lives serves to shape their expectations about the future. For instance, a prevailing macroeconomic environment with a high level of unemployment and/or declining output may serve to dampen an individual's expectations about job opportunities and personal finances. In addition, the existing literature has largely ignored the link between expectations and life satisfaction. Our system allows us to test whether a direct relationship exists.

Finally, following previous evidence, we allow individual characteristics such as age and marital status to influence life satisfaction, expectations and employment status. We treat such individual characteristics as purely exogenous.⁹

The analysis presented in Figure 1 and the various direct effects discussed above lead to a series of indirect connections within the various nodes of our system. Key to this is the indirect effect that austerity shocks potentially have on life satisfaction. There are various possible indirect channels through which the individual's life satisfaction is affected by austerity policies. Firstly, fiscal retrenchment may increase the probability of being unemployed, which in turn lowers life satisfaction directly and indirectly via less optimistic expectations. Secondly, as established in the existing literature, austerity shocks impact positively on the unemployment rate and negatively on GDP growth, this in turn may affect life satisfaction. A further indirect impact that austerity could have on life satisfaction, operates via expectations. Specifically, austerity may directly and indirectly (via the macroeconomic environment) affect expectations, which in turn affect life satisfaction. In addition, austerity may affect the macroeconomic fundamentals, which, influence expectations, which, in turn, influence life satisfaction.

To summarize, we allow an individual's life satisfaction to be affected by: austerity shocks, the individual's expectations, the individual's personal characteristics, the probability of unemployment and the macroeconomic environment. Our framework allows an individual's expectations to be affected by austerity policies, the macroeconomic environment, unemployment and personal characteristics. The unemployment rate and GDP growth are affected by fiscal shocks. Finally, an individual's probability of being unemployed is linked to the fiscal shock and the macroeconomic environment, as well as individual characteristics.

 $^{^9\}mathrm{Das}$ et al. (2019) show how socio-economic status impacts the macroeconomic expectations of individuals.

3 Data and the Empirical Strategy

We create a dataset linking individual-level data with country-level observations by merging individual life satisfaction, expectations, unemployment status (and other personal characteristics) collected by the Eurobarometer surveys with (a) the "narrative" austerity measure constructed by Guajardo et al. (2014), and (b) the unemployment rate and GDP growth collected by the OECD Economic Outlook N.90. Our final dataset covers the period 1999-2009 and 13 European countries (France, Belgium, the Netherlands, Germany, Italy, Denmark, Ireland, UK, Spain, Portugal, Finland, Sweden, Austria) yielding a sample of 207,830 individual-level observations.¹⁰ Table 1 presents the descriptive statistics for all the variables used in our empirical analysis.

3.1 Measuring life satisfaction

The Eurobarometer surveys include information on life satisfaction and other individualspecific characteristics. Each survey consists of approximately 1000 face-to-face interviews per country each year and reports are published twice yearly. All respondents must be resident in the respective country and aged 15 and over. The Eurobarometer surveys are ideally suited to our study as they include a measure of life satisfaction, which has been analysed extensively in the literature. For example, Di Tella et al. (2001) use Eurobarometer data to explore the relationship between unemployment, inflation and life satisfaction. Blanchflower et al. (2014) adopt the Eurobarometer's life satisfaction measure to examine the microeconomic determinants of subjective wellbeing in Europe and Alesina et al. (2004) study the relationship between inequality in Europe and individual wellbeing using data drawn from the Eurobarometer for 1999 to 2007. Hence, this data source, as well as this measure of subjective wellbeing, has been used in some of the seminal papers in this area, which facilitates comparison between our findings and the existing literature and serves to highlight the contributions that we make to existing knowledge in this field.

The variable measuring life satisfaction is a categorical variable derived from the ques-

¹⁰The start date is determined by the availability of the expectations questions in the Eurobarometer survey, while the end date is determined by the availability of the austerity measure.

tion "on the whole, are you very satisfied, fairly satisfied, not very satisfied or not at all satisfied with the life you lead?" and the related answers 1="Not at all satisfied" (2.85%), 2="Not very satisfied" (11.58%), 3="Fairly satisfied" (56.80%), 4="Very satisfied" (28.77%). Hence, this measure is increasing in the level of life satisfaction.¹¹ As commonly accepted in the literature, the life satisfaction variable has been treated as cardinal, following, for example, Ferrer-i Carbonell and Frijters (2004). Note that this variable has been standardised with a mean of 0 and a standard deviation of 1, a minimum of -2.978 and a maximum of 1.246.

3.2 Measuring austerity and the macroeconomic environment

The literature has proposed various approaches to measure the level of austerity. Traditionally the change in the cyclically adjusted primary balance (CAPB) has been used as a proxy for fiscal consolidation (Alesina and Perotti, 1995; Alesina and Ardagna, 2010, 2013; Guajardo et al., 2014; Yang et al., 2015). The application of cyclical adjustment is crucial since an increase in the primary balance may not simply be the result of tightening of the fiscal stance, but the consequence of automatic stabilisers over the business cycle. As Yang et al. (2015) point out, the CAPB captures discretionary fiscal policy and other non-cyclical factors by removing the effects of business cycle fluctuations via taxes, transfers and interest payments.

CAPB-based measures of fiscal consolidation have been strongly criticised by Guajardo et al. (2014), who point out that changes in the CAPB may not be fully exogenous to output fluctuations; hence creating an identification issue in the empirical analysis. Guajardo et al. (2014) propose a narrative approach to obtain austerity shocks that are uncorrelated with other macroeconomic changes. This narrative approach involves the examination of contemporaneous policy documents to identify fiscal policy shifts that aim to reduce the budget deficit, as opposed to responding to prospective economic conditions. Essentially, the narrative approach aims to make policy changes observable. Given the above discussion, we use the variable constructed by Guajardo et al. (2014) to measure

¹¹This is generally accepted as an evaluative measure rather than a measure of emotional wellbeing, or affect, and hence it is well suited for our application, see e.g. Dolan and Metcalfe (2012).

our austerity shocks. This variable has been used to identify UK fiscal consolidations by Cloyne (2013), government spending shocks (Ramey, 2011), tax shocks (Romer and Romer, 2010), and monetary policy shocks (Romer and Romer, 2004).¹²

Finally, to account for the macroeconomic environment we use the annual rates of GDP growth and unemployment. The source for these data is the OECD Economic Outlook N.90.

3.3 Measuring expectations

To measure expectations, we make use of the Eurobarometer survey, which includes a set of variables that capture views about the future, including: life as a whole; the national economic situation; the household financial situation; the national employment situation; and their job in general. Specifically, individuals were asked the following: "What are your expectations for the next twelve months: will the next twelve months be better, worse or the same, when it comes to: Your life in general? The economic situation in our country? The financial situation of your household? The employment situation in our country? Your personal job situation?". The possible responses were "Better", "Same", and "Worse". From these responses, we construct five indices that are increasing in positive expectations, where 0 denotes "worse", 1 denotes "same", and 2 denotes a "better" expected situation.

Table 2 presents the correlation matrix of the expectation variables. The correlation between the various expectations variables is 0.43 on average, thereby suggesting that distinct dimensions of expectations are captured. However, the correlation coefficients are positive and statistically significant indicating that the expectation variables should be considered independently due to potential issues of multicollinearity.

 $^{^{12}} The \ data base \ is \ available \ via \ available \ at \ https://www.imf.org/en/Publications/WP/Issues/2016/12/31/A-New-Action-Based-Dataset-of-Fiscal-Consolidation-24892$

3.4 Other individual level determinants

It is well known in the literature that life satisfaction and expectations are influenced by individual characteristics (see e.g. Clark and Oswald, 1996). Hence, we complement our analysis with a standard set of variables X capturing these characteristics. They include employment and labour market status (employed/self-employed, unemployed, retired, at school, at home), educational attainment (i.e., indicators for whether individuals left school before age 15, between ages 16 to 18, or aged 19 and over), gender, age (and age-squared) and marital status (single, married, widowed, divorced/separated). With the exception of being unemployed, we treat all these variables as purely exogenous.¹³

3.5 Empirical strategy

To study the direct and indirect effects of austerity on life satisfaction using the framework detailed in Section 2, we estimate the following structural equation model:

$$LS_{ijt} = \alpha_0 + \alpha_1 A_{jt} + \alpha_2 E_{ijt} + \alpha_3^Y Y_{jt} + \alpha_3^U U_{jt} + \alpha_4 U n_{ijt} + X'_{ijt} \alpha_5 + \epsilon_{ijt}$$
(1)

$$E_{ijt} = \beta_0 + \beta_1 A_{jt} + \beta_2^Y Y_{jt} + \beta_2^U U_{jt} + \beta_3 U n_{ijt} + X'_{ijt} \beta_4 + \xi_{ijt}$$
(2)

$$Un_{ijt} = \theta_0 + \theta_1 A_{jt} + \theta_2^Y Y_{jt} + \theta_2^U U_{jt} + X'_{ijt} \theta_3 + \tau_{ijt}$$

$$\tag{3}$$

$$Y_{jt} = \gamma_0^Y + \gamma_1^Y A_{jt} + \zeta_{jt}^Y \tag{4}$$

$$U_{jt} = \gamma_0^U + \gamma_1^U A_{jt} + \zeta_{jt}^U \tag{5}$$

where LS_{ijt} and E_{ijt} denote the life satisfaction and expectations of individual *i* in country *j* at time *t*, respectively. Similarly, Un_{ijt} denotes the probability of individual *i* in country *j* being unemployed at time *t*. Y_{jt} and U_{jt} represent the level of GDP growth and the unemployment rate, respectively, in country *j* at time *t*. A_{jt} is the measure of austerity derived from Guajardo et al. (2014), as described in Section 3.2, which is country and time specific. In contrast, X_{ijt} is defined at the individual level and represents a vector of personal characteristics as in Section 3.4. Finally ϵ_{ijt} , ξ_{ijt} , τ_{ijt} , ζ_{jt}^Y and ζ_{jt}^U are the error terms associated with each equation.

 $^{^{13}\}mathrm{Unfortunately}$ personal and household income are not available in this dataset.

The direct effects of austerity on individual life satisfaction, and individual expectations and the probability of being unemployed at the individual level are captured by path coefficients α_1, β_1 and θ_1 . With respect to the macroeconomic effect of austerity on the macroeconomic environment, the direct effects on GDP growth and the national unemployment rate are given by γ_1^Y and γ_1^U , respectively.

In contrast, the computation of the indirect effects of austerity are more complex. Following Baron and Kenny (1986), we use a multiple mediation method, the key feature of which is that it allows many different paths through which austerity affects life satisfaction. Given the focus of this paper, we now detail the indirect effects of austerity (A_{jt}) on life satisfaction (LS_{ijt}) . For instance, the effect of austerity operating via individual expectations is given by $\beta_1 \times \alpha_2$. Similarly, the effects of A_{jt} operating via the probability of being unemployed is given by $(\theta_1 \times \alpha_4) + (\theta_1 \times \beta_3 \times \alpha_2)$. Austerity also influences life satisfaction via the macroeconomic environment; specifically, the effects of A_{jt} operating via GDP growth and unemployment are given by γ_1^Y and γ_1^U , respectively. Furthermore, these macroeconomic variables are allowed to change LS_{ijt} via the individual's expectations $(\beta_2^Y \text{ and } \beta_2^U)$ and via the probability of currently being unemployed (α_4) .

The structural equation model has been estimated using maximum likelihood. For simplicity, the third equation relating to the probability of being unemployed is estimated as a linear probability model. Finally standard errors have been clustered at the countrylevel.

4 Results

We estimate the structural model given by equations (1) to (5) for each measure of expectations. Specifically, Tables 3 to 7 present the results for expectations regarding a better personal financial situation, for a better job situation, for a better national employment situation, for a better life expectation and for a better national economic situation, respectively. Hence, the only difference across the models relates to the variable used to capture views about the future.

Each table is divided into in five panels (labelled Life satisfaction, Exp, GDP growth, Unemployment rate and Unemployed) corresponding to equations 1 to 5. Column 1 reports the direct effects, column 2 reports the indirect effects and the last column reports the total effects.

Focusing on Table 3, it is reassuring to note that the sign and statistical significance of the personal characteristics in the life satisfaction equation are in line with the existing literature (see Panel A). Specifically, life satisfaction is found to be increasing in education and decreasing in being unemployed, age has a U-shaped relationship with life satisfaction, and married people have higher life satisfaction.

With respect to the focus of our contribution, there is no direct effect of austerity on life satisfaction rather the effect is indirect and operates through changes in expectations and the unemployment rate. Specifically, the path between austerity and life satisfaction that is mediated via the expectations has an effect equal to -0.018; the effect that runs via the unemployment rate and the individual's expectations is equal to -0.041.¹⁴ Interestingly, all the other paths are economically insignificant, thereby highlighting the important role that expectations at the individual level play in shaping life satisfaction. Furthermore, austerity has statistically significant negative direct and total effects on being optimistic about the future personal financial situation (see Panel B).

The findings in Panel C accord with the existing literature in that GDP growth and the aggregate unemployment rate are inversely and positively, respectively, associated with the probability of being unemployed at the individual level. In addition, it is apparent that austerity is positively associated with the probability of being unemployed in accordance with intuition. In addition, in accordance with the existing macroeconomic literature, austerity has a large positive statistically significant direct effect on the unemployment rate as captured in Panel E. Specifically, on average, austerity is associated with an increase in the unemployment rate of 0.1 percentage points, the average of the austerity measure being 0.18. In contrast, austerity has a large negative but statistically

¹⁴The estimate of -0.018 is obtained by multiplying the direct effect of expectations on life satisfaction, 0.268, in Panel A by the effect of austerity on expectations, -0.07 in Panel B. The estimate of 0.041 is obtained by multiplying the effect of austerity on the unemployment rate, 0.804, in Panel D, and the effect of the unemployment rate on life satisfaction, -0.503, in Panel A.

insignificant effect on GDP growth, see Panel D. In addition to the effect of personal characteristics such as age, gender and education, individuals' expectations are also affected by the macroeconomic environment, specifically GDP growth.

Turning to Table 4, which presents the results related to expectations regarding a better job situation, the results follow an identical pattern to that presented in Table 3, with austerity having an indirect effect on life satisfaction. The negative effect of austerity on expectations about the future job situation remains, although it is slightly smaller in magnitude. Table 5 presents the results relating to expectations about the national employment situation. The negative effect of austerity on expectations about the national is diminished in statistical significance, being significant at the 10% level. The pattern of results is robust to using expectations regarding a 'better life' in the future (see Table 6). Finally, in Table 7, the effect of austerity on expectations regarding the national economy is somewhat surprisingly positive. However, the effect is small in magnitude and, hence, does not influence the overall pattern of results. In particular, the negative indirect effect of austerity on life satisfaction prevails.

In summary, our findings are in line with the macroeconomic literature, which argues that austerity essentially changes the underlying macroeconomic conditions, specifically in our analysis, the unemployment rate. This in turn has effects on life satisfaction at the individual level, with the effects operating via this aspect of the macroeconomic environment, being substantial in magnitude and serving to dominate the effects of other influences such as the effect of austerity on individuals' expectations.

5 Conclusions

In this paper, we have explored the relationship between fiscal consolidation and life satisfaction using a large repeated cross-section dataset drawn from the Eurobarometer from 1999 to 2009, covering 13 countries and comprising 207,830 observations. It is apparent that the interaction between austerity, life satisfaction, expectations and the macroeconomic environment is highly complex. Hence, in order to disentangle the direct and indirect effects at play, we have employed structural equation modelling. Our modelling approach makes two important contributions to existing work in this field. Firstly, we have explored the role of austerity in influencing life satisfaction and, secondly, we have explored the effects of expectations at the individual level on life satisfaction.

Our findings, which are robust across a range of measures of individual expectations covering individual and national economic prospects, support an inverse association between austerity, as measured by an unexpected change in the country's fiscal stance, and life satisfaction, operating through an economic channel. Our findings suggest that austerity changes the underlying macroeconomic conditions, specifically the unemployment rate. This in turn influences life satisfaction at the individual level, with the effects operating via the prevailing unemployment rate being substantial in magnitude and dominating the effects of other influences including the effect of austerity on individuals' expectations.

Our findings have important implications from a policy perspective. When a government is considering embarking upon a plan of austerity measures, our findings suggest that the potential adverse effects on individual wellbeing and life satisfaction should be taken into account. Hence, social and health policies need to be appropriately designed in conjunction with macroeconomic policy. If austerity policies lead to lower individual wellbeing and poorer health then this may in turn lead to lower productivity and work effort amongst the employed and/or may jeopardise the return to work amongst the unemployed.

An important avenue for further research relates to furthering our understanding of how expectations are formed at the individual level as well as exploring the extent of understanding of the nature and implications of macroeconomic policy amongst the wider public.

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Figure 1: Path diagram

P	anel A				
	N. Obs	Mean	Std. Dev		
Individuals variables					
Life satisfaction	$207,\!830$	0.000	1		
Age	$207,\!830$	46.767	17.425		
Employed/Self-employed (omitted category)	$207,\!830$	0.547			
Unemployed	$207,\!830$	0.061			
Retired	$207,\!830$	0.231			
In School	$207,\!830$	0.074			
At home	$207,\!830$	0.087			
Male	$207,\!830$	0.480			
Single (omitted category)	$207,\!830$	0.207			
Married	$207,\!830$	0.631			
Separeted/Divorced	$207,\!830$	0.084			
Widowed	$207,\!830$	0.078			
Education < 15 (omitted category)	$207,\!830$	0.243			
Education 15-18	$207,\!830$	0.379			
Education $19+$	$207,\!830$	0.378			
P	anel B				
	N. Obs	Mean	St. Dev.	Min.	Max
Macroeconomics variables					
GDP growth	207.830	0.887	3.432	-8.269	10.732
Unemployment rate	207,830	7.234	2.467	2.971	17.857
Austerity	$207,\!830$	0.186	0.654	-0.750	4.740
Expectations variables					
Better Life	207.830	1.199	0.626	0	2
Better National Economic Situation	207.830	1.159	0.755	0	2
Better Personal Financial Situation	207.830	1.073	0.634	õ	2
Better National Employment Situation	207.830	0.807	0.778	õ	2
Better Job Situation	207,830	1.124	0.537	0	2

Table 1: Descriptive statistics

Notes: Data from Eurobarometer Surveys for the years 1999-2009.

Table 2: Correlation matrix of expectations variables

	Better Life	Better National Economic Situation	Better Personal Financial Situation	Better National Employment	Better Job Situation
Better Life	1				
Better National Economic Situation	0.363*	1			
Better Personal Financial Situation	0.553^{*}	0.424^{*}	1		
Better National Employment Situation	0.320*	0.614^{*}	0.381*	1	
Better Job Situation	0.483^{*}	0.311^{*}	0.518*	0.329*	1

Notes: Data from Eurobarometer Surveys 1999-2009. * denotes significance at the 0.05.

Control Sector Control State Sector Control State Sector Control State Sector Control State Sector Std. Err. Control Sector Std. Err. Contr <thcontrol sector<="" th=""> <thcontrol sector<="" th="" th<=""><th></th><th colspan="2">Direct Effect</th><th colspan="2">Indirect Effect</th><th>Total</th><th>Effect</th></thcontrol></thcontrol>		Direct Effect		Indirect Effect		Total	Effect
Panel A. Life Satisfaction Life Term Processing of the second secon		Coef.	Std. Err.	Coef.	Std. Err.	Coef.	Std. Err.
Exp: Financial Situation 0.268^{++x} (0.41) $(mo path)$ 0.268^{++x} (0.01) CDP growth -0.007 (0.024) -0.004 (0.003) -0.064^{++x} (0.003) Mate -0.024^{+x} (0.017) 0.012^{++x} (0.003) -0.011^{++x} (0.003) Age ² -0.016^{++x} (0.004) -0.003^{++x} (0.001) 0.010^{++x} (0.001) Education 15-18 0.007^{++x} (0.033) 0.002^{-+x} 0.068^{++x} (0.020) Married 0.210^{++x} (0.033) 0.002^{-+x} (0.036) 0.014^{++x} (0.012) Vidowed 0.037^{+x} (0.033) 0.002^{-+x} (0.036) 0.014^{++x} (0.012) 0.04^{++x} (0.012) 0.04^{++x} (0.012) 0.04^{++x} (0.012) 0.014^{++x} (0.012) 0.014^{++x} (0.012) 0.014^{++x} (0.012) 0.014^{++x} (0.012) 0.025^{++x} (0.012) 0.025^{++x} (0.012) 0.017^{++x} $(0.01$	Panel A. Life Satisfaction				200. 200	2001	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Exp: Financial Situation	0.268^{***}	(0.41)	(no	path)	0.268^{***}	(0.041)
Unamployment rate -0.052^{++} (0.023) -0.061^{+++} (0.003) -0.061^{+++} (0.003) Age -0.016^{++++} (0.014) -0.003^{++++} (0.001) -0.019^{+++} (0.001) Age ² -0.001^{++++} (0.001) -0.003^{+++} (0.001) -0.001^{+++} (0.001) Education 15-18 0.307^{++} (0.143) 0.002^{+++} (0.003) 0.000^{++++} (0.003) Divorced -0.155^{+++} (0.333) 0.002^{-++++} (0.043) -0.071^{+++} (0.034) Vidowed -0.037^{+++} (0.033) 0.022^{++++} (0.041) -0.54^{++++} (0.042) Unemployed -0.037^{+++} (0.031) -0.047^{+++} (0.042) -0.040^{+++} (0.042) Retired -0.037^{+++} (0.012) 0.044^{+++} (0.012) 0.047^{+++} (0.012) 0.047^{+++} (0.012) At home -0.07^{+} $(0.001)^{+}$ 0.002^{+++} $(0.012)^{+++++}$ $(0.023)^{++++}$	GDP growth	-0.007	(0.008)	0.005^{***}	(0.001)	-0.003	(0.009)
Male -0.024 (0.017) 0.012*** (0.003) -0.019*** (0.003) Age -0.016*** (0.001) -0.009*** (0.003) -0.019*** (0.003) Age ² 0.000*** (0.001) 0.000*** (0.003) 0.001*** (0.003) Education 15-18 0.307*** (0.145) 0.023 (0.001) (0.161) Education 15-18 0.307*** (0.028) 0.027**** (0.002) $(0.024)^{***}$ (0.038) Divored 0.155*** (0.033) 0.026^{****} (0.010) $(0.034)^{***}$ (0.038) Unemptoyed $(0.077)^{**}$ 0.010^{***} (0.012) 0.054^{***} (0.012) Reiferd -0.03^{***} (0.011) 0.012^{***} (0.012) Reiferd -0.074^{**} $(0.017)^{**}$ 0.017^{**} 0.017^{**} 0.017^{**} I education 0.42^{***} $(0.017)^{**}$ 0.001^{**} 0.017^{**} 0.017^{**} I education 15-18 0.002^{**} <td>Unemployment rate</td> <td>-0.052^{**}</td> <td>(0.024)</td> <td>-0.004</td> <td>(0.003)</td> <td>-0.056^{**}</td> <td>(0.025)</td>	Unemployment rate	-0.052^{**}	(0.024)	-0.004	(0.003)	-0.056^{**}	(0.025)
Age -0.06^{***} (0.004) -0.003^{***} (0.001) -0.009^{***} (0.000) Education 15-18 0.307^{***} (0.145) 0.023 (0.017) 0.330^{***} (0.167) Married 0.218^{***} (0.133) 0.002 (0.066) 0.248^{***} (0.136) Married 0.218^{***} (0.033) 0.002 (0.066) 0.214^{***} (0.038) Widowed -0.53^{***} (0.033) 0.022^{***} (0.060) -0.51^{***} (0.38) Vincemployed -0.53^{***} $(0.077)^{-0.010}$ $(0.10)^{***}$ (0.012) -0.41^{***} (0.012) -0.41^{***} (0.012) -0.41^{***} (0.012) -0.41^{***} (0.012) -0.017^{***} $(0.06)^{****}$ $(0.017)^{****}$ -0.017^{***} $(0.014)^{****}$ -0.61^{***} $(0.02)^{****}$ $(0.017)^{****}$ $(0.014)^{****}$ -0.61^{****} $(0.02)^{****}$ $(0.017)^{****}$ $(0.014)^{***}$ $(0.02)^{****}$ $(0.017)^{****}$ $(0.017)^{*****}$ $(0.012)^{*****}$	Male	-0.024	(0.017)	0.012^{***}	(0.003)	-0.011	(0.019)
Age ² 0.000^{**} (0.000) 0.000^{**} (0.000) 0.000^{***} (0.000) Education 15-18 0.507^{***} (0.145) 0.023^{***} (0.060) 0.330^{***} (0.161) Married 0.219^{****} (0.028) 0.027^{***} (0.060) 0.246^{****} (0.033) Vietowed -0.087^{***} (0.033) 0.022^{***} (0.05) -0.71^{**} (0.038) Self-employed (no path) 0.054^{***} (0.012) 0.54^{***} (0.012) Retired -0.083^{***} (0.011) 0.044^{***} (0.040) 0.040^{***} (0.022) In education 0.628^{****} $(0.011)^{**}$ 0.040^{***} $(0.020)^{***}$ 0.040^{***} Inemployed 0.014^{***} 0.000^{***} $(0.000)^{***}$ 0.000^{***} 0.001^{***} Inemployed 0.014^{***} 0.000^{****} 0.000^{****} 0.000^{****} Ineducation 0.014^{****} 0.000^{****} 0.000^{****} 0.000^{****}	Age	-0.016***	(0.004)	-0.003***	(0.001)	-0.019***	(0.003)
Education 15-18 0.307^{**} (0.148) 0.067^{***} (0.22) 0.630^{***} (0.167) Married 0.219^{***} (0.28) 0.027^{***} (0.060) 0.246^{****} (0.28) Divorced -0.55^{***} (0.033) 0.022^{***} (0.030) -0.071^{**} (0.338) Unemployed -0.53^{***} (0.077) -0.010 (0.010) -0.51^{***} (0.021) Inedication 0.028^{***} (0.11) 0.112^{***} (0.021) In education 0.028^{***} (0.151) 0.112^{***} (0.021) At home -0.074 $(0.056^{***}$ $(0.077)^{**}$ $(0.006)^{**}$ Auserity 0.003 0.004^{***} $(0.000)^{**}$ 0.003^{***} Maried 0.014^{***} $(0.000)^{**}$ 0.003^{***} $(0.000)^{***}$ 0.000^{***} Mareid 0.002^{**} 0.000^{***} 0.000^{***} 0.000^{***} 0.000^{***} GDP growth 0.006^{***} 0.000^{**}	Age^2	0.000***	(0.000)	0.000*	(0.000)	0.000***	(0.000)
	Education 15-18	0.307**	(0.145)	0.023	(0.017)	0.330**	(0.161)
$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Education 19+	0.542***	(0.148)	0.067***	(0.022)	0.689***	(0.167)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Married	0.219***	(0.028)	0.027***	(0.006)	0.246***	(0.028)
	Divorced	-0.155***	(0.033)	0.002	(0.004)	-0.154***	(0.036)
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Widowed Unomployed	-0.097	(0.033)	0.026	(0.005)	-0.071 ⁻ 0 =12***	(0.038)
	Solf employed	-0.505	(0.077)	-0.010	(0.010)	-0.313	(0.084)
Interful 0.003 0.0011 0.0112**** 0.0120 0.040*** 0.0123 At home 0.074 0.019) 0.056**** 0.0122 0.740*** 0.165 At home 0.074 0.099) 0.056*** 0.012*** 0.017 0.067 Panel B. Exp: Financial Situation 0.014*** 0.004 0.000 0.000 0.015*** (0.001) Unemployment rate 0.001*** (0.001) 0.000 0.000 0.001 0.001*** (0.001) Age 0.011*** (0.002) 0.000 0.0000 0.001*** (0.001) Age2 0.001*** (0.002) 0.000 0.0008 (0.002) Age2 0.006*** (0.004) 0.000 0.0028 (0.001) Education 19+ 0.157*** (0.049) 0.002 (0.022) 0.036 (0.032) Divorced 0.006 (0.002) 0.006 (0.049) 0.004 (0.041) Widowed 0.004 (0.014) 0.002 (0.002)<	Betired	0.083***	(0.021)	0.034***	(0.012) (0.016)	0.034	(0.012) (0.020)
In entration 0.03^{-0} 0.11^{+1} 0.11^{+2} 0.101^{-0} 0.101^{-0} Aut home 0.073 0.030^{-0} 0.055^{+2*} 0.017^{-0} 0.016^{-0} Panel B. Exp: Financial Situation GDP growth 0.002^{-0} 0.000^{-0} $0.000^{$	In education	-0.083	(0.021) (0.151)	0.044	(0.010)	-0.040	(0.025)
Austerity D.0.3 (0.03) (0.03) $(0.01)^*$ $(0.01)^*$ $(0.01)^*$ $(0.01)^*$ $(0.01)^*$ Panel B. Exp: Financial Situation GDP (0.004) (0.004) (0.000) (0.026) $(0.03)^*$ (0.001) Mate (0.014^{***}) (0.001) (0.000) (0.001) (0.001) (0.001) Mate (0.031^{***}) (0.001) (0.000) (0.001) (0.001) Age $(0.007)^*$ $(0.001)^*$ $(0.000)^*$ $(0.000)^*$ $(0.000)^*$ Age2 $(0.007^*)^*$ $(0.001)^*$ $(0.000)^*$ $(0.001)^*$ $(0.001)^*$ Age3 $(0.006^*)^*$ $(0.001)^*$ $(0.001)^*$ $(0.001)^*$ $(0.001)^*$ $(0.001)^*$ Age4 $(0.064^*)^*$ $(0.001)^*$ $(0.001)^*$ $(0.001)^*$ $(0.011)^*$ Married $0.066^{**}(*, 0.14)^*$ 0.004^* $(0.004)^*$ $(0.023)^*$ Unemployed $-0.06^{***}(*, 0.014)^*$ 0.004^* $(0.001)^*$ $(0.023)^*$ $(0.023)^*$ <	At home	0.028	(0.151) (0.059)	0.112	(0.022) (0.017)	0.140	(0.103)
Part II.ConstructionConstructionConstructionConstructionConstructionPanel B. Exp: Financial Situation GDP growth Male 0.014^{***} (0.004) 0.000 (0.000) -0.003 (0.011) Male 0.002^{**} (0.001) -0.000 (0.000) -0.033^{***} (0.007) Age -0.018^{***} (0.002) 0.000 (0.000) -0.018^{***} (0.007) Age -0.018^{***} (0.002) 0.000 (0.000) -0.018^{***} (0.000) Age2 0.007^{***} (0.049) 0.002 (0.002) -0.088^{***} (0.000) Education 15-18 0.067^{**} (0.049) 0.002 (0.002) 0.008^{***} (0.049) Married 0.007^{***} (0.041) -0.002 (0.002) 0.008^{***} (0.049) Divorced 0.007^{***} $(0.011)^{**}$ -0.036 $(0.032)^{***}$ $(0.041)^{***}$ Unemployed -0.366^{**} $(0.041)^{**}$ -0.036^{***} $(0.044)^{**}$ Retired -0.066^{***} $(0.041)^{**}$ $(0.041)^{**}$ $(0.041)^{**}$ In education 0.447^{**} $(0.023)^{**}$ -0.014^{***} $(0.011)^{**}$ In equation 0.447^{**} $(0.023)^{**}$ -0.014^{***} $(0.011)^{**}$ In education 0.447^{**} $(0.023)^{**}$ -0.013^{***} $(0.011)^{**}$ In education 0.447^{**} $(0.023)^{**}$ -0.014^{***} $(0.011)^{**}$ In education $0.047^{$	Austerity	0.003	(0.033) (0.084)	-0.061**	(0.017) (0.026)	-0.059	(0.005) (0.077)
Panel B. Exp: Financial Situation GDP growth 0.014*** (0.004) 0.000 (0.000) -0.003 (0.004) Male 0.031*** (0.007) 0.000 (0.000) 0.013*** (0.007) Male 0.031*** (0.007) 0.000 (0.000) 0.013*** (0.007) Age 0.016*** (0.001) -0.000 (0.000) 0.017*** (0.002) Age2 0.000*** (0.001) -0.000 (0.002) 0.015**** (0.048) Education 19+ 0.157*** (0.049) 0.002 (0.002) 0.016* (0.049) Married 0.006 (0.009) 0.002 (0.002) 0.006 (0.011) Widowed 0.004 (0.014) 0.002 (0.002) 0.006 (0.013) Unemployed -0.036 (0.032) (no path) -0.036 (0.031) Ideaction 0.047 (0.053) -0.013 (0.014) (0.041) (0.021) In education 0.047** <t< td=""><td>Austerity</td><td>0.005</td><td>(0.004)</td><td>-0.001</td><td>(0.020)</td><td>-0.055</td><td>(0.011)</td></t<>	Austerity	0.005	(0.004)	-0.001	(0.020)	-0.055	(0.011)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Panel B. Exp: Financial Situation						
Unemployment rate -0.002 (0.010) -0.000 (0.000) -0.003 (0.010) Male 0.031^{***} (0.007) 0.000 (0.000) 0.031^{****} (0.007) Age -0.018^{***} (0.000) -0.000^{***} (0.000) -0.000^{***} (0.000) Age 0.000^{***} (0.000) -0.000^{***} (0.000) -0.000^{****} (0.000) Age 0.000^{***} (0.000) -0.000^{***} (0.000) -0.000^{****} (0.002) 0.008^{***} (0.009) Divorced 0.007 (0.011) -0.000^{*} (0.002) 0.008 (0.009) Divorced 0.007^{*} (0.014) 0.002^{*} (0.002) 0.006^{*} (0.001) Unemployed -0.036^{*} (0.014) 0.004^{*} (0.004) -0.035^{***} (0.012) Unemployed -0.018^{*} (0.011) $(n.004)^{*}$ (0.014) In education 0.007^{***} $(0.023)^{*}$ <t< td=""><td>GDP growth</td><td>0.014***</td><td>(0.004)</td><td>0.000</td><td>(0.000)</td><td>0.015^{***}</td><td>(0.004)</td></t<>	GDP growth	0.014***	(0.004)	0.000	(0.000)	0.015^{***}	(0.004)
Male 0.031*** 0.007 0.000 0.001 0.031*** (0.007) Age -0.018*** (0.002) 0.000 -0.018*** (0.002) Age2 0.000*** (0.000) -0.000 0.0000 -0.018*** (0.002) Education 15-18 0.067 (0.048) 0.000 (0.002) 0.058 (0.049) Married 0.006 (0.009) 0.002 (0.002) 0.068 (0.049) Married 0.006 (0.009) 0.002 (0.002) 0.006 (0.011) Vidowed 0.007 (0.011) -0.000 (0.000) 0.007 (0.011) Vidowed 0.004 (0.014) 0.002 (0.002) 0.006 (0.013) Unemployed -0.036 (0.032) (no path) -0.036 (0.032) Retired -0.060*** (0.014) 0.0021 -0.036 (0.014) In education 0.047 (0.056) 0.007** (0.014) (0.023 At home	Unemployment rate	-0.002	(0.010)	-0.000	(0.000)	-0.003	(0.010)
Age Age2 -0.018^{***} (0.002) 0.000^{***} (0.000) 0.0000^{***} (0.002) 0.000^{***} (0.002) 0.002 (0.002) 0.002 (0.002) 0.002 (0.002) 0.002 (0.003) 0.002 (0.002) 0.002 (0.003) 0.002 (0.002) 0.002 (0.003) 0.002 (0.003) 0.002 (0.003) 	Male	0.031^{***}	(0.007)	0.000	(0.000)	0.031^{***}	(0.007)
$ \begin{split} & A_{g}^{2}^{2} & 0.000^{***} & (0.000) & -0.000 & (0.000) & 0.000^{***} & (0.000) \\ & Education 15-18 & 0.067 & (0.048) & 0.000 & (0.000) & 0.068 & (0.048) \\ & Education 19+ & 0.157^{****} & (0.049) & 0.002 & (0.002) & 0.158^{***} & (0.049) \\ & Married & 0.006 & (0.009) & 0.002 & (0.002) & 0.008 & (0.009) \\ & Divorced & 0.007 & (0.011) & -0.000 & (0.000) & 0.007 & (0.011) \\ & Widowed & 0.004 & (0.014) & 0.002 & (0.002) & 0.006 & (0.013) \\ & Unemployed & -0.036 & (0.032) & (no path) & -0.036 & (0.032) \\ & Self-employed & (no path) & 0.004 & (0.004) & -0.055^{***} & (0.016) \\ & In education & 0.047 & (0.014) & 0.004 & (0.004) & -0.055^{***} & (0.016) \\ & In education & 0.047 & (0.023) & -0.013 & (0.012) & -0.083^{***} & (0.014) \\ & At home & -0.018 & (0.021) & 0.004 & (0.004) & -0.014 & (0.023) \\ & Austerity & -0.070^{***} & (0.001) & (no path) & -0.001^{***} & (0.001) \\ & Male & -0.004^{***} & (0.001) & (no path) & -0.008^{***} & (0.001) \\ & Male & -0.008^{**} & (0.001) & (no path) & -0.008^{***} & (0.001) \\ & Age^{2} & -0.004^{***} & (0.001) & (no path) & -0.008^{***} & (0.001) \\ & Age^{2} & -0.004^{***} & (0.001) & (no path) & -0.008^{***} & (0.001) \\ & Age^{2} & -0.004^{****} & (0.001) & (no path) & -0.008^{***} & (0.001) \\ & Education 15-18 & -0.010^{**} & (0.007) & (no path) & -0.008^{***} & (0.001) \\ & Education 15-18 & -0.010^{**} & (0.007) & (no path) & -0.04^{****} & (0.007) \\ & Married & -0.050^{****} & (0.006) & (no path) & -0.04^{****} & (0.007) \\ & Married & -0.004^{****} & (0.007) & (no path) & -0.06^{****} & (0.007) \\ & Self-employed & -0.004^{****} & (0.007) & (no path) & -0.06^{****} & (0.007) \\ & Married & -0.018^{****} & (0.013) & (no path) & -0.06^{****} & (0.007) \\ & Married & -0.018^{****} & (0.013) & (no path) & -0.06^{****} & (0.013) \\ & Divorced & 0.000 & (0.006) & (no path) & -0.10^{****} & (0.013) \\ & Asterity & -0.000 & (0.002) & 0.006^{**} & (0.003) \\ & Duos & (0.003) & Duos & (0.003) \\ & Duos & (0.003) & Duos & (0.003) \\ & Duos & (0.003) & Duos & (0.003) \\ & Duos & (0.003) & D$	Age	-0.018***	(0.002)	0.000	(0.000)	-0.018***	(0.002)
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	Age^2	0.000^{***}	(0.000)	-0.000	(0.000)	0.000 * * *	(0.000)
Education $19+$ 0.157^{***} (0.049) 0.002 (0.002) 0.159^{***} (0.049) Married 0.006 (0.009) 0.002 (0.002) 0.008 (0.099) Divorced 0.007 (0.011) -0.000 (0.002) 0.006 (0.013) Unemployed -0.366 (0.032) $(no path)$ -0.036 (0.032) Self-employed $(no path)$ 0.004 (0.004) -0.055^{***} (0.016) In education 0.047 (0.056) 0.007 (0.004) -0.055^{***} (0.016) In education 0.047 (0.056) 0.007 (0.004) -0.055^{***} (0.016) In education 0.047 (0.023) -0.013 (0.014) -0.014^{**} (0.011) Austerity -0.07^{***} (0.021) (0.004) -0.01^{**} (0.011) Unemployment rate -0.001^{**} (0.001) $(no path)$ -0.001^{**} (0.001) Maried -0.004^{***} (0.001) $(no path)$ -0.004^{***}	Education 15-18	0.067	(0.048)	0.000	(0.000)	0.068	(0.048)
Married 0.006 0.009 0.002 0.002 0.008 0.009 Divorced 0.007 (0.011) -0.000 (0.002) 0.006 (0.011) Widowed 0.004 (0.014) 0.002 (0.002) 0.006 (0.013) Unemployed -0.366 (0.032) (no path) -0.036 (0.032) Self-employed (no path) 0.004 (0.004) 0.004 (0.004) Retired -0.606*** (0.014) 0.004 (0.004) -0.055*** (0.016) In education 0.047 (0.056) 0.007 (0.014) (0.023) Austerity -0.070*** (0.023) -0.013 (0.012) -0.001** (0.001) Unemployment rate 0.007*** (0.001) (no path) -0.001** (0.001) Male -0.008* (0.001) (no path) -0.008** (0.001) Male -0.004*** (0.001) (no path) -0.004*** (0.001) GDP growth -0	Education $19+$	0.157^{***}	(0.049)	0.002	(0.002)	0.159^{***}	(0.049)
Divorced 0.007 (0.011) -0.000 (0.002) 0.007 (0.011) Widowed 0.036 (0.032) (no path) -0.036 (0.032) Self-employed (no path) 0.004 (0.004) 0.004 (0.032) In education 0.047 (0.056) 0.007 (0.014) 0.004 (0.004) -0.055*** (0.016) In education 0.047 (0.056) 0.007 (0.004) -0.014 (0.023) Austerity -0.070*** (0.023) -0.013 (0.012) -0.083*** (0.011) Unemployed -0.001** (0.001) (no path) -0.001** (0.001) Unemployment rate 0.007*** (0.001) (no path) -0.001*** (0.001) Male -0.004*** (0.001) (no path) -0.001*** (0.001) Male -0.004*** (0.001) (no path) -0.004*** (0.001) Age -0.004*** (0.001) (no path) -0.008** (0.000)	Married	0.006	(0.009)	0.002	(0.002)	0.008	(0.009)
Widowed 0.004 (0.014) 0.002 (0.002) 0.006 (0.013) Unemployed -0.036 (0.032) (no path) 0.004 (0.004) 0.004 (0.004) Retired -0.060*** (0.014) 0.004 (0.004) -0.055*** (0.016) In education 0.047 (0.056) 0.007 (0.006) 0.054 (0.058) Austerity -0.070*** (0.021) 0.004 (0.004) -0.01** (0.014) Panel C. Unemployed -0.01** (0.021) 0.004 (0.004) -0.01** (0.014) Male -0.001** (0.023) -0.013 (0.012) -0.083*** (0.001) Male -0.001** (0.001) (no path) -0.001** (0.001) Male -0.004*** (0.001) (no path) -0.004** (0.001) Age -0.004*** (0.000) (no path) -0.004** (0.001) Age ² 0.000*** (0.000) (no path) -0.010* (0.006) Education 15-18 -0.010* (0.006) (no path)	Divorced	0.007	(0.011)	-0.000	(0.000)	0.007	(0.011)
Unemployed -0.036 (0.032) (no path) -0.036 (0.032) Self-employed (no path) 0.004 (0.004) 0.004 (0.004) Retired -0.060*** (0.014) 0.004 (0.004) -0.055*** (0.016) In education 0.047 (0.056) 0.007 (0.006) 0.054 (0.023) Austerity -0.070*** (0.021) 0.004 (0.004) -0.014* (0.014) Panel C. Unemployed GDP growth -0.011** (0.001) (no path) -0.001*** (0.001) Unemployment rate 0.007*** (0.001) (no path) -0.001*** (0.001) Male -0.008** (0.004) (no path) -0.008** (0.001) Age ² 0.000*** (0.000) (no path) -0.008** (0.001) Education 15-18 -0.010* (0.006) (no path) -0.019*** (0.007) Married -0.050*** (0.006) (no path) -0.006*** (0.007) Divorced 0.000 (0.006) (no path) -0.019*** (0.011) <td>Widowed</td> <td>0.004</td> <td>(0.014)</td> <td>0.002</td> <td>(0.002)</td> <td>0.006</td> <td>(0.013)</td>	Widowed	0.004	(0.014)	0.002	(0.002)	0.006	(0.013)
Self-employed (no path) 0.004 (0.004) 0.004 (0.004) Retired -0.060*** (0.014) 0.004 (0.004) -0.055*** (0.016) In education 0.047 (0.056) 0.007 (0.006) 0.0554 (0.023) Austerity -0.070*** (0.023) -0.013 (0.012) -0.083**** (0.011) Panel C. Unemployed	Unemployed	-0.036	(0.032)	(no	path)	-0.036	(0.032)
Retired -0.660*** (0.014) 0.004 (0.004) -0.055*** (0.016) In education 0.047 (0.056) 0.007 (0.006) 0.054 (0.058) At home -0.018 (0.023) -0.013 (0.012) -0.083*** (0.014) Austerity -0.070*** (0.023) -0.013 (0.012) -0.083*** (0.014) Panel C. Unemployed -0.001** (0.001) (no path) -0.001*** (0.001) Unemployment rate 0.007*** (0.001) (no path) -0.001*** (0.001) Male -0.008* (0.001) (no path) -0.004*** (0.001) Age -0.004*** (0.001) (no path) -0.004*** (0.001) Age2 0.000*** (0.000) (no path) -0.004*** (0.001) Education 15-18 -0.010* (0.006) (no path) -0.049*** (0.007) Married -0.049*** (0.007) (no path) -0.049*** (0.006) Divored 0.000 (0.066) (no path) -0.049*** (0.011) <	Self-employed	(no	path)	0.004	(0.004)	0.004	(0.004)
In education 0.047 (0.056) 0.007 (0.006) 0.054 (0.058) At home -0.018 (0.021) 0.004 (0.004) -0.014 (0.023) Austerity -0.018*** (0.023) -0.013 (0.012) -0.083*** (0.014) Panel C. Unemployed GDP growth -0.001*** (0.001) (no path) -0.001*** (0.001) Unemployment rate 0.007*** (0.001) (no path) -0.001*** (0.001) Male -0.008* (0.004) (no path) -0.008** (0.001) Age -0.004*** (0.001) (no path) -0.004*** (0.001) Age -0.004*** (0.000) (no path) -0.004*** (0.001) Age -0.010* (0.006) (no path) -0.004*** (0.000) Education 15-18 -0.010* (0.006) (no path) -0.049*** (0.007) Married -0.050*** (0.006) (no path) -0.049*** (0.007) Married -0.06*** (0.005) (no path) -0.049*** (0.007) <	Retired	-0.060***	(0.014)	0.004	(0.004)	-0.055***	(0.016)
At home -0.018 (0.021) 0.004 (0.004) -0.014 (0.023) Austerity -0.070^{***} (0.023) -0.013 (0.014) -0.014 (0.023) Panel C. Unemployed GDP growth -0.001^{**} (0.001) $(no path)$ -0.001^{**} (0.001) Unemployment rate 0.007^{***} (0.001) $(no path)$ -0.001^{**} (0.001) Male -0.008^{*} (0.004) $(no path)$ -0.008^{**} (0.001) Age -0.004^{***} (0.001) $(no path)$ -0.008^{**} (0.001) Age ² 0.000^{***} (0.000) $(no path)$ -0.004^{***} (0.001) Education 15-18 -0.010^{*} (0.006) $(no path)$ -0.049^{***} (0.007) Married -0.050^{***} (0.006) $(no path)$ -0.049^{***} (0.007) Married -0.050^{***} (0.006) $(no path)$ -0.049^{***} (0.007) Divorced 0.000 (0.006) $(no path)$ -0.048^{***} (0.007) Waiteried -0.108^{***} (0.011) $(no path)$ -0.048^{***} (0.005) Self-employed -0.106^{***} (0.011) $(no path)$ -0.168^{***} (0.013) In education -0.194^{***} (0.017) $(no path)$ -0.168^{***} (0.013) In education -0.194^{***} (0.013) $(no path)$ -0.194^{***} (0.013) Austerity -0.000 (0.022) 0.006^{**} </td <td>In education</td> <td>0.047</td> <td>(0.056)</td> <td>0.007</td> <td>(0.006)</td> <td>0.054</td> <td>(0.058)</td>	In education	0.047	(0.056)	0.007	(0.006)	0.054	(0.058)
Austerity -0.070*** (0.023) -0.013 (0.012) -0.083*** (0.014) Panel C. Unemployed GDP growth -0.001** (0.001) (no path) -0.001** (0.001) Unemployment rate 0.007*** (0.001) (no path) 0.007*** (0.001) Male -0.008* (0.004) (no path) -0.008* (0.004) Age -0.004*** (0.001) (no path) -0.004*** (0.001) Age ² 0.000*** (0.000) (no path) -0.004*** (0.000) Education 15-18 -0.010* (0.006) (no path) -0.049*** (0.007) Married -0.050*** (0.006) (no path) -0.049*** (0.007) Married -0.049*** (0.007) (no path) -0.049*** (0.007) Married -0.049*** (0.007) (no path) -0.049*** (0.007) Barried -0.048*** (0.011) (no path) -0.048*** (0.006) Divorced 0.000 (0.065) (no path) -0.106*** (0.011) Ret	At home	-0.018	(0.021)	0.004	(0.004)	-0.014	(0.023)
Panel C. Unemployed -0.001** (0.001) (no path) -0.001** (0.001) Unemployment rate 0.007*** (0.001) (no path) 0.007*** (0.001) Male -0.008* (0.004) (no path) -0.008* (0.004) Age -0.004*** (0.001) (no path) -0.008** (0.001) Age -0.004*** (0.000) (no path) -0.004*** (0.001) Age -0.004*** (0.000) (no path) -0.004*** (0.001) Age -0.010* (0.006) (no path) -0.010* (0.006) Education 15-18 -0.010* (0.007) (no path) -0.010* (0.007) Married -0.049*** (0.007) (no path) -0.050*** (0.006) Divorced 0.000 (0.006) (no path) -0.050*** (0.007) Married -0.048*** (0.005) (no path) -0.06*** (0.007) Married -0.048*** (0.005) (no path) -0.106*** (0.011) Retired -0.115*** (0.013) <t< td=""><td>Austerity</td><td>-0.070</td><td>(0.023)</td><td>-0.013</td><td>(0.012)</td><td>-0.083</td><td>(0.014)</td></t<>	Austerity	-0.070	(0.023)	-0.013	(0.012)	-0.083	(0.014)
GDP growth -0.001** (0.001) (no path) -0.001** (0.001) Unemployment rate 0.007*** (0.001) (no path) 0.007*** (0.001) Male -0.008* (0.004) (no path) -0.008* (0.004) Age -0.004*** (0.001) (no path) -0.004*** (0.001) Age -0.004*** (0.000) (no path) -0.004*** (0.001) Age -0.004*** (0.000) (no path) -0.004*** (0.001) Age -0.000*** (0.000) (no path) -0.004*** (0.000) Age -0.010* (0.006) (no path) -0.004*** (0.007) Age -0.010* (0.006) (no path) -0.049*** (0.007) Married -0.050*** (0.007) (no path) -0.049*** (0.007) Married -0.049*** (0.007) (no path) -0.049*** (0.007) Miried -0.050*** (0.005) (no path) -0.048*** (0.005) Self-employed -0.106*** (0.013) (no path)	Panel C. Unemployed						
Unemployment rate 0.007*** (0.001) (no path) 0.007*** (0.001) Male -0.008* (0.004) (no path) -0.008* (0.004) Age -0.004*** (0.001) (no path) -0.004*** (0.001) Age22 0.000*** (0.000) (no path) -0.004*** (0.001) Education 15-18 -0.010* (0.006) (no path) -0.010* (0.007) Married -0.049*** (0.007) (no path) -0.049*** (0.007) Married -0.050*** (0.006) (no path) -0.049*** (0.007) Married -0.050*** (0.006) (no path) -0.049*** (0.007) Married -0.049*** (0.005) (no path) -0.048*** (0.006) Divorced 0.000 (0.006) (no path) -0.048*** (0.005) Self-employed -0.16*** (0.011) (no path) -0.16*** (0.011) Retired -0.115*** (0.013) (no path) -0.119*** (0.013) In education -0.19*** (0.013)<	GDP growth	-0.001^{**}	(0.001)	(no	path)	-0.001**	(0.001)
Male -0.008* (0.004) (no path) -0.008* (0.004) Age -0.004*** (0.001) (no path) -0.004*** (0.001) Age ² 0.000*** (0.000) (no path) -0.004*** (0.000) Education 15-18 -0.010* (0.006) (no path) -0.010* (0.006) Education 19+ -0.049*** (0.007) (no path) -0.049*** (0.007) Married -0.050*** (0.006) (no path) -0.049*** (0.007) Married -0.050*** (0.006) (no path) -0.049*** (0.007) Married -0.050*** (0.006) (no path) -0.049*** (0.007) Married -0.048*** (0.005) (no path) -0.049*** (0.007) Midowed -0.048*** (0.005) (no path) -0.048*** (0.005) Self-employed -0.106*** (0.011) (no path) -0.16*** (0.013) In education -0.194*** (0.017) (no path) -0.194*** (0.013) Austerity -0.000 (0.00	Unemployment rate	0.007^{***}	(0.001)	(no	path)	0.007^{***}	(0.001)
Age Age2 -0.004^{***} (0.001) $(no path)$ -0.004^{***} (0.001) Age2 0.000^{***} (0.000) $(no path)$ 0.000^{***} (0.000) Education 15-18 -0.010^{*} (0.006) $(no path)$ -0.010^{*} (0.006) Education 19+ -0.049^{***} (0.007) $(no path)$ -0.049^{***} (0.007) Married -0.050^{***} (0.006) $(no path)$ -0.049^{***} (0.007) Divorced 0.000 (0.006) $(no path)$ -0.049^{***} (0.007) Widowed -0.048^{***} (0.005) $(no path)$ -0.048^{***} (0.006) Self-employed -0.106^{***} (0.011) $(no path)$ -0.108^{***} (0.005) Self-employed -0.16^{***} (0.011) $(no path)$ -0.168^{***} (0.011) Retired -0.15^{***} (0.013) $(no path)$ -0.168^{***} (0.013) In education -0.194^{***} (0.017) $(no path)$ -0.194^{***} (0.013) Austerity -0.000 (0.002) 0.006^{***} (0.003) 0.006^{**} Panel D. GDP growth -0.775 (0.661) $(no path)$ -0.775 (0.661) Panel E. Unemployment rate -0.775 (0.661) $(no path)$ 0.804^{**} (0.332) Observations $207 830$ $207 830$ $207 830$ $207 830$ $207 830$	Male	-0.008*	(0.004)	(no	path)	-0.008*	(0.004)
Age2 0.000^{***} (0.00) $(no path)$ 0.000^{***} (0.00) Education 15-18 -0.010^* (0.006) $(no path)$ -0.010^* (0.006) Education 19+ -0.049^{***} (0.007) $(no path)$ -0.049^{***} (0.007) Married -0.050^{***} (0.006) $(no path)$ -0.049^{***} (0.007) Divorced 0.000 (0.006) $(no path)$ -0.050^{***} (0.006) Divorced 0.000 (0.006) $(no path)$ -0.048^{***} (0.005) Widowed -0.048^{***} (0.005) $(no path)$ -0.048^{***} (0.005) Self-employed -0.106^{***} (0.011) $(no path)$ -0.168^{***} (0.011) Retired -0.115^{***} (0.011) $(no path)$ -0.116^{***} (0.013) In education -0.194^{***} (0.017) $(no path)$ -0.119^{***} (0.013) Austerity -0.000 (0.002) 0.006^{**} (0.003) 0.006^{*} (0.003) Panel D. GDP growth -0.775 (0.661) $(no path)$ -0.775 (0.661) Panel E. Unemployment rate -0.775 (0.661) $(no path)$ 0.804^{**} (0.332) Observations 207830 207830 207830 207830	Age	-0.004^{***}	(0.001)	(no	path)	-0.004***	(0.001)
Education 15-18 -0.010^* (0.006) $(no path)$ -0.010^* (0.006) Education 19+ -0.049^{***} (0.007) $(no path)$ -0.049^{***} (0.007) Married -0.050^{***} (0.006) $(no path)$ -0.049^{***} (0.006) Divorced 0.000 (0.006) $(no path)$ -0.050^{***} (0.006) Widowed -0.048^{***} (0.005) $(no path)$ -0.048^{***} (0.005) Self-employed -0.106^{***} (0.011) $(no path)$ -0.106^{***} (0.011) Retired -0.115^{***} (0.013) $(no path)$ -0.106^{***} (0.013) In education -0.194^{***} (0.013) $(no path)$ -0.194^{***} (0.013) Austerity -0.000 (0.002) 0.006^{**} (0.003) 0.006^{*} (0.003) Panel D. GDP growth -0.775 (0.661) $(no path)$ -0.775 (0.661) Panel E. Unemployment rate -0.775 (0.661) $(no path)$ -0.775 (0.661) Observations 207.830 207.830 207.830 207.830 207.830	Age^2	0.000^{***}	(0.000)	(no	path)	0.000 * * *	(0.000)
Education $19+$ -0.049^{***} (0.007) $(no path)$ -0.049^{***} (0.007) Married -0.050^{***} (0.006) $(no path)$ -0.050^{***} (0.006) Divorced 0.000 (0.006) $(no path)$ -0.048^{***} (0.005) Widowed -0.048^{***} (0.005) $(no path)$ -0.048^{***} (0.005) Self-employed -0.106^{***} (0.001) $(no path)$ -0.048^{***} (0.005) Self-employed -0.106^{***} (0.011) $(no path)$ -0.106^{***} (0.011) Retired -0.115^{***} (0.013) $(no path)$ -0.106^{***} (0.013) In education -0.194^{***} (0.017) $(no path)$ -0.119^{***} (0.017) At home -0.119^{***} (0.013) $(no path)$ -0.119^{***} (0.013) Austerity -0.000 (0.002) 0.006^{**} (0.003) 0.006^{*} Panel D. GDP growthAusterity -0.775 (0.661) $(no path)$ -0.775 (0.661) Panel E. Unemployment rateAusterity -0.775 (0.661) $(no path)$ 0.804^{**} (0.332) Observations 207.830 207.830 207.830 207.830 207.830	Education 15-18	-0.010*	(0.006)	(no	path)	-0.010*	(0.006)
Married -0.050*** (0.006) (no path) -0.050*** (0.006) Divorced 0.000 (0.006) (no path) 0.000 (0.006) Widowed -0.048*** (0.005) (no path) -0.048*** (0.005) Self-employed -0.106*** (0.011) (no path) -0.048*** (0.011) Retired -0.115*** (0.013) (no path) -0.116*** (0.013) In education -0.194*** (0.017) (no path) -0.194*** (0.017) At home -0.119*** (0.013) (no path) -0.119*** (0.013) Austerity -0.000 (0.002) 0.006** (0.003) 0.006* (0.003) Panel D. GDP growth -0.775 (0.661) (no path) -0.775 (0.661) Panel E. Unemployment rate -0.804 (0.332) (no path) 0.804** (0.332) Observations 207.830 207.830 207.830 207.830 207.830	Education 19+	-0.049^{***}	(0.007)	(no	path)	-0.049^{***}	(0.007)
Divorced 0.000 (0.006) (no path) 0.000 (0.006) Widowed -0.048*** (0.005) (no path) -0.048*** (0.005) Self-employed -0.106*** (0.011) (no path) -0.106*** (0.011) Retired -0.115*** (0.013) (no path) -0.116*** (0.013) In education -0.194*** (0.017) (no path) -0.194*** (0.017) At home -0.119*** (0.013) (no path) -0.119*** (0.013) Austerity -0.000 (0.002) 0.006** (0.003) 0.006* (0.003) Panel D. GDP growth -0.775 (0.661) (no path) -0.775 (0.661) Panel E. Unemployment rate -0.804 (0.332) (no path) 0.804** (0.332) Observations 207.830 207.830 207.830 207.830 207.830	Married	-0.050***	(0.006)	(no	path)	-0.050***	(0.006)
Widowed -0.048*** (0.005) (no path) -0.048*** (0.005) Self-employed -0.106*** (0.011) (no path) -0.106*** (0.011) Retired -0.115*** (0.013) (no path) -0.116*** (0.013) In education -0.194*** (0.017) (no path) -0.194*** (0.017) At home -0.119*** (0.013) (no path) -0.119*** (0.013) Austerity -0.000 (0.002) 0.006** (0.003) 0.006* (0.003) Panel D. GDP growth -0.775 (0.661) (no path) -0.775 (0.661) Panel E. Unemployment rate -0.804 (0.332) (no path) 0.804** (0.332) Observations 207.830 207.830 207.830 207.830 207.830	Divorced	0.000	(0.006)	(no	path)	0.000	(0.006)
Self-employed -0.106*** (0.011) (no path) -0.106*** (0.011) Retired -0.115*** (0.013) (no path) -0.116*** (0.013) In education -0.194*** (0.017) (no path) -0.194*** (0.017) At home -0.119*** (0.013) (no path) -0.119*** (0.013) Austerity -0.000 (0.002) 0.006** (0.003) 0.006* (0.003) Panel D. GDP growth -0.775 (0.661) (no path) -0.775 (0.661) Panel E. Unemployment rate -0.804 (0.332) (no path) 0.804** (0.332) Observations 207.830 207.830 207.830 207.830 207.830	Widowed	-0.048***	(0.005)	(no	path)	-0.048***	(0.005)
Retired -0.115*** (0.013) (no path) -0.116*** (0.013) In education -0.194*** (0.017) (no path) -0.194*** (0.017) At home -0.119*** (0.013) (no path) -0.194*** (0.017) At home -0.119*** (0.013) (no path) -0.119*** (0.013) Austerity -0.000 (0.002) 0.006** (0.003) 0.006* (0.003) Panel D. GDP growth -0.775 (0.661) (no path) -0.775 (0.661) Panel E. Unemployment rate -0.804 (0.332) (no path) 0.804** (0.332) Observations 207.830 207.830 207.830 207.830 207.830	Self-employed	-0.106***	(0.011)	(no	path)	-0.106***	(0.011)
In education -0.194*** (0.017) (no path) -0.194*** (0.017) At home -0.119*** (0.013) (no path) -0.119*** (0.013) Austerity -0.000 (0.002) 0.006** (0.003) 0.006* (0.003) Panel D. GDP growth -0.775 (0.661) (no path) -0.775 (0.661) Panel E. Unemployment rate -0.804 (0.332) (no path) 0.804** (0.332) Observations 207.830 207.830 207.830 207.830 207.830	Retired	-0.115***	(0.013)	(no	path)	-0.116***	(0.013)
At home -0.119*** (0.013) (no path) -0.119*** (0.013) Austerity -0.000 (0.002) 0.006** (0.003) 0.006* (0.003) Panel D. GDP growth -0.775 (0.661) (no path) -0.775 (0.661) Panel E. Unemployment rate -0.804 (0.332) (no path) 0.804** (0.332) Observations 207.830 207.830 207.830 207.830 207.830	In education	-0.194***	(0.017)	(no	path)	-0.194***	(0.017)
Austerity -0.000 (0.002) 0.006** (0.003) 0.006* (0.003) Panel D. GDP growth -0.775 (0.661) (no path) -0.775 (0.661) Panel E. Unemployment rate -0.804 (0.332) (no path) 0.804** (0.332) Observations 207.830 207.830 207.830 207.830 207.830	At home	-0.119***	(0.013)	(no	path)	-0.119***	(0.013)
Panel D. GDP growth Austerity -0.775 (0.661) (no path) -0.775 (0.661) Panel E. Unemployment rate Austerity 0.804 (0.332) (no path) 0.804** (0.332) Observations 207.830 207.830 207.830 207.830 207.830	Austerity	-0.000	(0.002)	0.006**	(0.003)	U.UU6*	(0.003)
Austerity -0.775 (0.661) (no path) -0.775 (0.661) Panel E. Unemployment rate Austerity 0.804 (0.332) (no path) 0.804** (0.332) Observations 207.830 207.830 207.830 207.830	Panel D. GDP growth						
Panel E. Unemployment rate Austerity 0.804 (0.332) (no path) 0.804** (0.332) Observations 207.830 207.830 207.830 207.830	Austerity	-0.775	(0.661)	(no	path)	-0.775	(0.661)
Panel E. Unemployment rate			()	(110	1/		()
Austerity 0.804 (0.332) (no path) 0.804** (0.332) Observations 207.830 207.830 207.830 207.830	Panel E. Unemployment rate						
Observations 207.830 207.830 207.830	Austerity	0.804	(0.332)	(no	path)	0.804^{**}	(0.332)
/// 0.00 /// 0.00 /// 0.00	Observations	207 020		207 020		207 020	

Table 3: Life satisfaction, better personal financial situation and austerity

Notes: This table reports estimates from our five-equation SEM. We present direct, indirect and total effects estimated using maximum likelihood methods. Life satisfaction and the intermediate outcome variables are denoted in bold. The omitted categories for the sets of dummy variables are as follows: employed/self-employed, education $<\!15$ years, and single. Life satisfaction is standardised with a mean of 0 and a standard deviation of 1. The probability of being unemployed is estimated as a linear probability model. Standard errors are clustered at the country-level. All equations include a constant, not reported. *** p < 0.01, ** p < 0.05, * p < 0.1.

	Direct Effect		Indirect Effect		Total	Effect
	Coef	Std. Err.	Coef.	Std. Err.	Coef	Std. Err.
Panel A. Life Satisfaction	coch	Sta: LIII	coch	Stu: LIII.	coen	Sta: LIII
Exp: Job Situation	0.239^{***}	(0.043)	(no	path)	0.239^{***}	(0.043)
GDP growth	-0.006	(0.009)	0.003^{***}	(0.001)	-0.003	(0.009)
Unemployment rate	-0.052**	(0.024)	-0.004^{*}	(00002)	-0.056**	(0.025)
Male	-0.019	(0.017)	0.008^{***}	(0.003)	-0.011	(0.019)
Age	-0.016^{***}	(0.003)	-0.003**	(0.001)	-0.019^{***}	(0.003)
Age^2	0.000^{***}	(0.000)	0.000*	(0.000)	0.000^{***}	(0.000)
Education 15-18	0.312^{**}	(0.149)	0.018	(0.012)	0.330**	(0.161)
Education 19+	0.555***	(0.153)	0.054***	(0.017)	0.609***	(0.167)
Married	0.227***	(0.027)	0.018***	(0.007)	0.246***	(0.028)
Divorced	-0.149***	(0.034)	-0.005	(0.004)	-0.154***	(0.036)
Widowed	-0.090**	(0.038)	0.019***	(0.005)	-0.071*	(0.038)
Unemployed	-0.523****	(0.075)	0.010	(0.011)	-0.513***	(0.083)
Betirod	011) ***coo o	(0.021)	0.059***	(0.012)	0.054	(0.012)
In education	-0.092	(0.021) (0.155)	0.032	(0.010)	-0.040	(0.029)
At home	0.021	(0.155) (0.060)	0.119 0.054***	(0.021) (0.015)	0.740	(0.103)
Austority	-0.072	(0.000) (0.087)	0.054	(0.013) (0.027)	-0.017	(0.003)
Austerity	-0.005	(0.001)	-0.055	(0.021)	-0.035	(0.011)
Panel B. Exp: Job Situation						
GDP growth	0.011***	(0.003)	-0.000	(0.000)	0.011^{***}	(0.003)
Unemployment rate	-0.000	(0.005)	0.000	(0.000)	-0.000	(0.005)
Male	0.017^{***}	(0.004)	-0.000	(0.000)	0.017^{***}	(0.004)
Age	-0.018***	(0.002)	-0.000	(0.000)	-0.019***	(0.002)
Age^2	0.000^{***}	(0.000)	-0.000	(0.000)	0.000^{***}	(0.000)
Education 15-18	0.052	(0.035)	-0.000	(0.001)	0.051	(0.035)
Education 19+	0.122^{***}	(0.038)	-0.000	(0.002)	0.120^{***}	(0.039)
Married	-0.030***	(0.009)	-0.002	(0.002)	-0.032***	(0.009)
Divorced	-0.019*	(0.010)	0.000	(0.000)	-0.019*	(0.010)
Widowed	-0.022^{***}	(0.007)	-0.002	(0.002)	-0.024^{***}	(0.007)
Unemployed	0.040	(0.049)	(no	path)	0.040	(0.049)
Self-employed	(no	path)	-0.004	(0.005)	-0.004	(0.005)
Retired	-0.031**	(0.014)	-0.005	(0.005)	-0.036**	(0.016)
In education	0.081*	(0.043)	-0.008	(0.009)	0.073	(0.018)
Austority	-0.030*	(0.010) (0.012)	-0.003	(0.000)	-0.033	(0.008)
Austerity	-0.045	(0.013)	-0.009	(0.003)	-0.033	(0.003)
Panel C. Unemployed						
GDP growth	-0.001**	(0.001)	(no	path)	-0.001**	(0.001)
Unemployment rate	0.007^{***}	(0.001)	(no	path)	0.007^{***}	(0.001)
Male	-0.008*	(0.004)	(no	path)	-0.008*	(0.004)
Age	-0.004^{***}	(0.001)	(no	path)	-0.004^{***}	(0.001)
Age^2	0.000^{***}	(0.000)	(no	path)	0.000^{***}	(0.000)
Education 15-18	-0.010*	(0.056)	(no	path)	-0.010*	(0.056)
Education 19+	-0.049^{***}	(0.007)	(no	path)	-0.049^{***}	(0.007)
Married	-0.050***	(0.006)	(no	path)	-0.050***	(0.006)
Divorced	0.000	(0.006)	(no	path)	0.000	(0.006)
Widowed	-0.048***	(0.005)	(no	path)	-0.048***	(0.005)
Self-employed	-0.106***	(0.011)	(no	path)	-0.106***	(0.011)
Ketired	-0.116***	(0.013)	(no	path)	-0.116***	(0.013)
III eaucation	-U.194***	(0.017) (0.012)	(no (r	path)	-U.194***	(0.017)
Austerity	-0.119	(0.013) (0.002)	(no) 0.006**	(0.003)	0.006**	(0.013) (0.003)
Panel D. GDP growth						
Austerity	-0.775	(0.661)	(no	path)	-0.775	(0.661)
Panel E. Unemployment rate						
Austerity	0.804**	(0.332)	(no	path)	0.804**	(0.332)
Observations	207,830		207,830		207,830	

Table 4: Life satisfaction, better job situation and austerity

Notes: This table reports estimates from our five-equation SEM. We present direct, indirect and total effects estimated using maximum likelihood methods. Life satisfaction and the intermediate outcome variables are denoted in bold. The omitted categories for the sets of dummy variables are as follows: employed/self-employed, education <15 years, and single. Life satisfaction is standardised with a mean of 0 and a standard deviation of 1. The probability of being unemployed is estimated as a linear probability model. Standard errors are clustered at the country-level. All equations include a constant, not reported. *** p < 0.01, ** p < 0.05, * p < 0.1.

	Direct Effect		Indirect Effect		Total	Effect
	Coef.	Std. Err.	Coef.	Std. Err.	Coef.	Std. Err.
Panel A. Life Satisfaction						
Exp: Better employment	0.148^{***}	(0.025)	(no	path)	0.148***	(0.025)
GDP growth	-0.009	(0.009)	0.007^{***}	(0.001)	-0.003	(0.009)
Unemployment rate	-0.052^{**}	(0.024)	-0.004	(0.002)	-0.056**	(0.025)
Male	-0.017	(0.017)	0.006^{**}	(0.003)	-0.011	(0.019)
Age	-0.019^{***}	(0.003)	-0.000	(0.001)	-0.019^{***}	(0.003)
Age^2	0.000^{***}	(0.000)	-0.000	(0.000)	0.000^{***}	(0.000)
Education 15-18	0.316^{**}	(0.152)	0.014	(0.010)	0.330^{**}	(0.161)
Education $19+$	0.562^{***}	(0.156)	0.047^{***}	(0.014)	0.609^{***}	(0.167)
Married	0.221***	(0.029)	0.025***	(0.006)	0.246***	(0.028)
Divorced	-0.151***	(0.034)	-0.002	(0.003)	-0.154***	(0.036)
Widowed	-0.093**	(0.038)	0.022***	(0.004)	-0.071*	(0.038)
Unemployed	-0.509***	(0.079)	-0.004	(0.005)	-0.513***	(0.084)
Self-employed	(no	patn)	0.054***	(0.012)	0.054***	(0.012)
Retirea	-0.099	(0.022)	0.059	(0.014)	-0.040	(0.029)
In education	0.620***	(0.157)	0.062***	(0.015)	0.740	(0.105)
Austority	-0.080	(0.000)	0.002***	(0.015)	-0.017	(0.009)
Austerity	-0.008	(0.080)	-0.030	(0.027)	-0.059	(0.077)
Panel B. Exp: Better employment						
GDP growth	0.040^{***}	(0.005)	0.000	(0.000)	0.040***	(0.005)
Unemployment rate	-0.001	(0.011)	-0.000	(0.000)	-0.001	(0.011)
Male	0.014^{*}	(0.008)	0.000	(0.000)	0.014*	(0.008)
Age	-0.013^{***}	(0.002)	0.000	(0.000)	-0.013***	(0.002)
Age^2	0.000^{***}	(0.000)	-0.000	(0.000)	0.000^{***}	(0.000)
Education 15-18	0.059	(0.047)	(0.000)	(0.000)	0.059	(0.047)
Education $19+$	0.150^{***}	(0.049)	0.001	(0.002)	0.151^{***}	(0.049)
Married	-0.006	(0.009)	0.001	(0.002)	-0.005	(0.009)
Divorced	-0.015^{*}	(0.009)	-0.000	(0.000)	-0.015*	(0.009)
Widowed	-0.017	(0.012)	0.001	(0.001)	-0.15	(0.011)
Unemployed	-0.029	(0.031)	(no	path)	-0.029	(0.031)
Self-employed	(no	path)	0.003	(0.003)	0.03	(0.003)
Retired	-0.004	(0.011)	0.003	(0.004)	-0.000	(0.009)
In education	0.139^{**}	(0.054)	0.006	(0.006)	0.145**	(0.054)
At nome Austority	0.008	(0.020) (0.027)	0.003	(0.004) (0.027)	0.011	(0.021) (0.015)
Austerity	-0.032	(0.027)	-0.031	(0.027)	-0.085	(0.013)
Panel C. Unemployed						
GDP growth	-0.001^{**}	(0.001)	(no	path)	-0.001**	(0.001)
Unemployment rate	0.007^{***}	(0.001)	(no	path)	0.007^{***}	(0.001)
Male	-0.008*	(0.004)	(no	path)	-0.008*	(0.004)
Age	-0.004^{***}	(0.001)	(no	path)	-0.004^{***}	(0.001)
Age^2	0.000^{***}	(0.000)	(no	path)	0.000 ***	(0.000)
Education 15-18	-0.010*	(0.006)	(no	path)	-0.010*	(0.006)
Education $19+$	-0.049***	(0.007)	(no	path)	-0.049***	(0.007)
Married	-0.050***	(0.006)	(no	path)	-0.050***	(0.006)
Divorced	0.000	(0.006)	(no	path)	0.000	(0.006)
Widowed	-0.048***	(0.005)	(no	path)	-0.048***	(0.005)
Self-employed	-0.106***	(0.011)	(no	path)	-0.106***	(0.011)
Retired In a heart's r	-0.116***	(0.013)	(no	path)	-U.116***	(0.013)
In education	-0.194***	(0.017)	(no	path)	-0.194***	(0.017)
Austerity	-0.119****	(0.013) (0.002)	no) 0.006**	patn) (0.003)	-0.119**** 0.006*	(0.013) (0.003)
0		()		()		()
Panel D. GDP growth						
Austerity	-0.775	(0.661)	(no	path)	-0.775	(0.661)
Panel E. Unemployment rate						
Austerity	0.804**	(0.332)	(no	path)	0.804**	(0.332)
Observations	0.07 090		007 090		007 000	
Observations	∠07,030		201.030		201.030	

Table 5: Life satisfaction, better national employment situation and austerity

Notes: This table reports estimates from our five-equation SEM. We present direct, indirect and total effects estimated using maximum likelihood methods. Life satisfaction and the intermediate outcome variables are denoted in bold. The omitted categories for the sets of dummy variables are as follows: employed/self-employed, education <15 years, and single. Life satisfaction is standardised with a mean of 0 and a standard deviation of 1. The probability of being unemployed is estimated as a linear probability model. Standard errors are clustered at the country-level. All equations include a constant, not reported. *** p < 0.01, ** p < 0.05, * p < 0.1.

	Direct Effect		Indirect Effect	Total	Effect
	Coef	Std. Err.	Coef. Std. Er	r. Coef.	Std. Err.
Panel A. Life Satisfaction	Coeff	Std. Em.		n coen	Sta: EII.
Exp: Better life	0.271***	(0.049)	(no path)	0.271^{***}	(0.049)
GDP growth	-0.008	(0.008)	0.006^{***} (0.002)	-0.003	(0.009)
Unemployment rate	-0.053**	(0.024)	-0.003 (0.003)	-0.056**	(0.025)
Male	-0.014	(0.017)	0.003 (0.003)	0.011	(0.019)
Age	-0.016^{***}	(0.004)	-0.003^{**} (0.001)	-0.019 ***	(0.003)
Age^2	0.000***	(0.000)	0.000 (0.000)	0.000^{***}	(0.000)
Education 15-18	0.300^{**}	(0.141)	0.030 (0.021)	0.330**	(0.161)
Education $19+$	0.533^{***}	(0.143)	0.076^{***} (0.027)	0.609^{***}	(0.167)
Married	0.228^{***}	(0.028)	0.018^{**} (0.007)	0.246^{***}	(0.028)
Divorced	-0.158***	(0.033)	0.005 (0.005)	-0.154***	(0.036)
Widowed	-0.087**	(0.036)	0.016^{**} (0.007)	-0.071*	(0.038)
Unemployed	-0.511***	(0.077)	-0.002 (0.009)	-0.513***	(0.084)
Betingd	011) ***°°°0	(0.021)	0.034° (0.012)	0.054	(0.012)
In advantion	-0.000***	(0.021)	0.046° (0.015) 0.121*** (0.028)	-0.040	(0.029)
At home	0.008	(0.140) (0.058)	0.151° (0.028) 0.057*** (0.017)	0.740***	(0.105)
Austority	-0.074	(0.038)	$0.057 (0.017) \\ 0.050** (0.026)$	-0.017	(0.009) (0.077)
Austerity	0.000	(0.083)	-0.039 (0.020)	-0.039	(0.011)
Panel B. Exp: Better life					
GDP growth	0.018^{***}	(0.003)	0.000 (0.000)	0.018***	(0.004)
Unemployment rate	0.001	(0.009)	-0.000 (0.000)	0.001	(0.009)
Male	-0.003	(0.007)	(0.000)	-0.003	(0.007)
Age	-0.016^{***}	(0.002)	0.000 (0.000)	-0.016^{***}	(0.002)
Age^2	0.000^{***}	(0.000)	-0.000 (0.000)	0.000^{***}	(0.000)
Education 15-18	0.091	(0.057)	0.000 (0.000)	0.091	(0.057)
Education 19+	0.189^{***}	(0.060)	0.000 (0.002)	0.189^{***}	(0.060)
Married	-0.030***	(0.009)	0.000 (0.002)	-0.029***	(0.001)
Divorced	0.019	(0.014)	-0.000 (0.000)	0.019	(0.014)
Widowed	-0.032**	(0.015)	0.000 (0.002)	-0.032**	(0.015)
Unemployed	-0.006	(0.032)	(no path)	-0.006	(0.032)
Self-employed	(no	path)	0.000 (0.003)	0.000	(0.003)
Retired	-0.041***	(0.013)	0.000 (0.004)	-0.040***	(0.013)
In education	0.119	(0.000)		0.119	(0.000)
Austerity	-0.010	(0.022) (0.025)	-0.013 (0.004)	-0.010	(0.024) (0.016)
rusterity	0.000	(01020)	0.010 (0.011)	01010	(01010)
Panel C. Unemployed					
GDP growth	-0.001^{**}	(0.001)	(no path)	-0.001^{**}	(0.001)
Unemployment rate	0.007^{***}	(0.001)	(no path)	0.007^{***}	(0.001)
Male	-0.008*	(0.004)	(no path)	-0.008*	(0.004)
Age	-0.004***	(0.001)	(no path)	-0.004***	(0.001)
Age ²	0.000***	(0.000)	(no path)	0.000***	(0.000)
Education 15-18	-0.010*	(0.006)	(no path)	-0.010*	(0.006)
Education 19+	-0.049***	(0.007)	(no path)	-0.049***	(0.007)
Married	-0.050***	(0.006)	(no path)	-0.050****	(0.006)
Widewod	0.000	(0.006)	(no path)	0.000	(0.006)
Self-employed	-0.040	(0.000) (0.011)	(no path)	-0.040	(0.003) (0.011)
Betired	-0.116***	(0.011)	(no path)	-0.116***	(0.011)
In education	-0.194***	(0.017)	(no path)	-0.194***	(0.017)
At home	-0.119***	(0.012)	(no path)	-0.119***	(0.012)
Austerity	-0.000	(0.002)	0.006^{**} (0.003)	0.006*	(0.003)
Denol D. CDD					
Austerity	-0.775	(0.661)	(no path)	-0 775	(0.661)
11000110y	-0.110	(0.001)	(no barn)	-0.110	(0.001)
Panel E. Unemployment rate					
Austerity	0.804**	(0.332)	(no path)	0.804^{**}	(0.332)
Observations	$207,\!830$		207,830	$207,\!830$	

Table 6: Life satisfaction, better life expectations and austerity

Notes: This table reports estimates from our five-equation SEM. We present direct, indirect and total effects estimated using maximum likelihood methods. Life satisfaction and the intermediate outcome variables are denoted in bold. The omitted categories for the sets of dummy variables are as follows: employed/self-employed, education <15 years, and single. Life satisfaction is standardised with a mean of 0 and a standard deviation of 1. The probability of being unemployed is estimated as a linear probability model. Standard errors are clustered at the country-level. All equations include a constant, not reported. *** p < 0.01, ** p < 0.05, * p < 0.1.

	Direct Effect		Indirect Effect		Total Effect	
	Coef.	Std. Err.	Coef.	Std. Err.	Coef.	Std. Err.
Panel A. Life Satisfaction						
Exp: Economic situation	-0.158***	(0.026)	(no	path)	-0.158***	(0.026)
GDP growth	-0.006	(0.009)	0.004^{***}	(0.001)	-0.003	(0.009)
Unemployment rate	-0.052**	(0.024)	-0.003	(0.002)	-0.056**	(0.026)
Male	-0.021	(0.017)	0.010^{***}	(0.003)	-0.011	(0.019)
Age	-0.019***	(0.003)	-0.000	(0.000)	-0.019^{***}	(0.003)
Age^2	0.000 * * *	(0.000)	-0.000	(0.000)	0.000 * * *	(0.000)
Education 15-18	0.314^{**}	(0.151)	0.016	(0.011)	0.330**	(0.161)
Education 19+	0.560^{***}	(0.155)	0.049^{***}	(0.015)	0.609^{***}	(0.167)
Married	0.222^{***}	(0.028)	0.024^{***}	(0.006)	0.246^{***}	(0.028)
Divorced	-0.149***	(0.034)	-0.004	(0.003)	-0.154^{***}	(0.036)
Widowed	-0.093**	(0.038)	0.021^{***}	(0.005)	-0.071^{*}	(0.038)
Unemployed	-0.508***	(0.080)	-0.005	(0.005)	-0.513^{***}	(0.084)
Self-employed	(no	path)	0.054^{***}	(0.012)	0.054^{***}	(0.012)
Retired	-0.096***	(0.022)	0.056^{***}	(0.014)	-0.040	(0.029)
In education	0.616^{***}	(0.155)	0.124***	(0.021)	0.740^{***}	(0.165)
At home	-0.081	(0.060)	0.063^{***}	(0.014)	-0.017	(0.069)
Austerity	-0.007	(0.087)	-0.052^{*}	(0.027)	-0.059	(0.077)
Panel B. Exp: Economic situation						
GDP growth	-0.020***	(0.005)	-0.000	(0.000)	-0.020***	(0.005)
Unemployment rate	-0.002	(0.009)	0.000	(0.000)	-0.001	(0.009)
Male	-0.038***	(0.009)	-0.000	(0.000)	-0.038***	(0.009)
Age	0.012***	(0.001)	-0.000	(0.000)	0.012***	(0.001)
Age ²	-0.000***	(0.000)	0.000	(0.000)	-0.000***	(0.000)
Education 15-18	-0.066	(0.044)	-0.000	(0.000)	-0.066	(0.044)
Education 19+	-0.154***	(0.047)	-0.002	(0.001)	-0.156***	(0.048)
Married	0.011	(0.009)	-0.002	(0.001)	0.010	(0.010)
Divorced	0.028^{***}	(0.008)	0.000	(0.000)	0.028^{***}	(0.008)
Widowed	0.018	(0.012)	-0.002	(0.001)	0.017	(0.012)
Unemployed	0.033	(0.028)	(no	path)	0.033	(0.028)
Self-employed	(no	path)	-0.003	(0.003)	-0.003	(0.003)
Retired	0.021^{*}	(0.012)	-0.004	(0.003)	0.017^{*}	(0.010)
In education	-0.153***	(0.053)	-0.006	(0.005)	-0.159***	(0.053)
At home	-0.013	(0.017)	-0.004	(0.003)	-0.017	(0.018)
Austerity	0.058^{***}	(0.020)	0.014	(0.016)	0.072***	(0.014)
Panel C. Unemployed						
GDP growth	-0.001**	(0.001)	(no	path)	-0.001**	(0.001)
Unemployment rate	0.007^{***}	(0.001)	(no	path)	0.007^{***}	(0.001)
Male	-0.008*	(0.004)	(no	path)	-0.008*	(0.004)
Age	-0.004***	(0.001)	(no	path)	-0.004***	(0.001)
Age^2	0.000***	(0.000)	(no	path)	0.000 * * *	(0.000)
Education 15-18	-0.010*	(0.006)	(no	path)	-0.010*	(0.006)
Education 19+	-0.049^{***}	(0.007)	(no	path)	-0.049***	(0.007)
Married	-0.050 * * *	(0.006)	(no	path)	-0.050***	(0.006)
Divorced	0.000	(0.006)	(no	path)	0.000	(0.006)
Widowed	-0.048***	(0.005)	(no	path)	-0.048***	(0.005)
Self-employed	-0.106***	(0.011)	(no	path)	-0.106^{***}	(0.011)
Retired	-0.116^{***}	(0.013)	(no	path)	-0.116***	(0.013)
In education	-0.194^{***}	(0.017)	(no	path)	-0.194^{***}	(0.017)
At home	-0.119***	(0.013)	(no	path)	-0.119^{***}	(0.013)
Austerity	-0.000	(0.002)	0.006^{**}	(0.003)	0.006*	(0.003)
Panel D. GDP growth			,	. 1 \		
Austerity	-0.775	(0.661)	(no	path)	-0.775	(0.661)
Panel E. Unemployment rate						
Austerity	0.804^{**}	(0.332)	(no	path)	0.804**	(0.332)
Observations	207 830		207 830		207 830	

Table 7: Life satisfaction, better national economic situation and austerity

Notes: This table reports estimates from our five-equation SEM. We present direct, indirect and total effects estimated using maximum likelihood methods. Life satisfaction and the intermediate outcome variables are denoted in bold. The omitted categories for the sets of dummy variables are as follows: employed/self-employed, education <15 years, and single. Life satisfaction is standardised with a mean of 0 and a standard deviation of 1. The probability of being unemployed is estimated as a linear probability model. Standard errors are clustered at the country-level. All equations include a constant, not reported. *** p < 0.01, ** p < 0.05, * p < 0.1.