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Research Article

The educational gradient of living alone: A comparison among the working-age population in Europe

Glenn Sandström

Lena Karlsson

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The educational gradient of living alone: A comparison among the working-age population in Europe

Glenn Sandström¹

Lena Karlsson²

Abstract

BACKGROUND

In recent decades, the proportion of individuals in Western countries living in a oneperson household has increased. Previous research has mainly focused on the increase among the elderly and younger segments of the population, and there is a lack of research regarding the characteristics of individuals living alone among the workingage population.

OBJECTIVE

The aim of this study is to examine the educational gradient of living alone in the working-age population (aged 30-64 years) in a comparative perspective and to assess if the differences in the educational gradient are related to the level of gender equality in different European societies.

METHODS

Using data on 12 European countries from the Generations and Gender Surveys, the estimated probabilities of living alone for men and women with different levels of education were calculated using logistic regression models while controlling for parental status and differences in the age distribution across different populations.

RESULTS

In the more gender equal countries, we found a negative educational gradient of living alone, especially for men, with decreasing gender differences in the probability of living alone as education increases. In the less gender equal countries, women tend to live alone to a higher extent than men regardless of their educational level. In the least gender equal countries, we found a positive educational gradient of living alone most

¹ Department of Historical, Philosophical and Religious Studies, Umeå University, Sweden; Stockholm University Demography Unit (SUDA), Stockholm University, Sweden; Institute of Environmental Medicine (IMM), Epidemiology, Karolinska Institute, Sweden. Email: glenn.sandstrom@umu.se. ² Department of Sociology, Umeå University, Sweden; Stockholm University Demography Unit (SUDA),

Stockholm University, Sweden.

markedly among women. Here we found the lowest probability of living alone among those who had received only a primary education and the highest levels among men and women with university degrees. Thus, we found a shift in the educational gradient of living alone from a negative gradient in the most gender equal countries in Northern Europe to a positive gradient in the least gender equal countries in the South and in Eastern Europe.

CONTRIBUTIONS

This study highlights differences in living alone for men and women in the working-age population in Europe across different levels of education.

1. Introduction

This paper focuses on the association between education and living as a one-person household in the working-age (30–64 years) population in Europe. Previous research has mainly focused on the living arrangements among the elderly population (Gaymu et al. 2006; Gierveld, Dykstra, and Schenk 2012) or in young adulthood (Mandic 2008; Schwanitz and Mulder 2015), and less attention has been given to the characteristics of individuals living alone in the working-age population, especially from a comparative perspective.

Previous research has often highlighted the Nordic countries as having the highest rates of one-person households, particularly among the working-age population living in urban areas (Klinenberg 2012; Fokkema and Liefbroer 2008). In recent decades the increase in one-person households has primarily been in the working-age population in countries such as Sweden and the United Kingdom (Chandler et al. 2004). However, in some Northern European countries like the Nordic countries, which have already reached high levels of one-person households, the increase is perceived to be less intense or even shifting to increased levels of cohabitation. In countries in which the trend has recently started, it is predicted that there will be major increases in one-person households in the coming decades (Jamieson and Simpson 2013).

The already high proportion of individuals currently living alone in the Northern European countries and the presumed increase in other European societies raises questions about the socioeconomic composition of this group in different contexts. Previous research has found that socioeconomic circumstances (educational level, income, employment status, etc.), especially in late midlife, are strongly associated with living arrangements, social support, and health later in life (Brunner et al. 2018). Educational level represents the most important proxy for the income capability and sociocultural resources of different individuals and, as such, is important to their

chances of partnering and family formation (Bellani, Esping-Andersen, and Nedoluzhko 2017; Demey et al. 2013). It is not fully known how living alone is distributed across educational groups, especially from a gender perspective. At present there are only scattered findings from, for example, the United Kingdom that show that women living alone in early midlife (35–44 years) tend to be more highly educated than their male counterparts (Demey et al. 2013). The consequences of different socioeconomic conditions between men and women in midlife are associated with partner history and parenthood, in which never-partnered men in late midlife (55–64 years) are more economically disadvantaged than women (Demey et al. 2013).

Regarding the causes for the trend of increased single living across European countries, Ron Lesthaeghe's (Lesthaeghe 1995) theory of the Second Demographic Transition can be used as a framework in which similarities and differences between countries can be discussed. The theory of the Second Demographic Transition predicts changes in demographic behavior resulting from the spread of more individualistic norms that have resulted in weaker family ties. Typically, these ideational changes have resulted in more unstable partnerships, an increase in divorce and separation, lower fertility, more complex household structures, and an increase in single living (Lesthaeghe 1995). The Nordic countries are typically identified as forerunners in this trend towards weaker family ties and more individualistic behaviors, and they were the first countries to experience the shifts in behaviors associated with the Second Demographic Transition (Lesthaeghe 1995; Reher 1998). Following the theory of the Second Demographic Transition, the more highly educated segments of the population are assumed to be the forerunners of these individualistic values, especially concentrated among more highly educated women (Esping-Andersen 2016).

However, a recent strand in demographic research argues that the tendency for the highly educated to lead the shift towards more individualistic behavior is only a temporary state that changes to the extent that gender-egalitarian values achieve a 'dominant normative status' and institutions and men's behavior in the family sphere adapt to the new economic roles of women (Esping-Andersen and Billari 2015). When a given society shifts towards institutional gender equality, these scholars argue that the association between women's education and family behavior, such as parenting and partnering, follows an inverse U-shape, shifting from negative to positive. In recent years, several studies have stressed that becoming a parent, getting married, and not experiencing divorce are more and more associated with a high level of education, stable employment, and high income for both men and women, and that this is explained by the relative level of gender-egalitarian norms in these societies (Esping-Andersen and Billari 2015; Boschini and Sundström 2018). For lifelong singlehood (never partnered by the age of 40), a recent study by Bellani, Esping-Andersen, and

Nedoluzhko (2017) revealed an inverse U-shaped association between the level of gender egalitarianism, education, and the probability of lifelong singlehood. However, whether there are any indications of this U-shape pattern in the probability of living alone in the working-age population in Europe is, thus far, not known.

Given the gaps in knowledge concerning how the socioeconomic background of men and women in different European societies influences the probability of living alone, the aim of this study is to analyze the educational gradient of living alone in the working-age population in Europe. Following the works of Bellani, Esping-Andersen, and Nedoluzhko (2017), we suppose that the educational gradient differs between countries according to their respective level of gender equity, where the educational gradient for living alone should be positive in less gender equal countries, especially among women. In contrast, we suppose that the educational gradient of living alone should be negative in more gender equal countries, especially among women. These findings will add value to previous research on demographic behavior and changes in living arrangements by presenting differences in the socioeconomic composition of one-person households across different European societies.

In addition to the differences in living alone across European countries, it is important to apply a life course perspective on why men and women of different ages tend to live alone. From a life course perspective, living arrangements are often temporary stages associated with different life course events, such as leaving home, entering partnership, childbearing, and divorce. As such, living alone is related to specific stages of life and transitions across the life course, in which typical trajectories will vary in different societies. In Northern Europe, younger individuals typically enter an independent phase by transitioning into single living when they leave their parental homes; in some cases this becomes a persistent state, but in most cases this period of single living is temporary and followed by entering a partnership and family formation phase. Then, a substantial proportion returns to single living in mid-age following a separation, divorce, or death of their spouse (Demey et al. 2013). In Southern European countries, leaving home is often postponed due to economic constraints while, historically, leaving home often only takes place when entering a union to form a family (Reher 1998). In Eastern and Southern European countries, the elderly tend to live with adult children and other relatives to a much greater extent than what is typically found in Northern Europe (Brandt, Haberkern, and Szydlik 2009; Hank 2007; Isengard and Szydlik 2012).

The life course perspective also provides a way of understanding differences between the genders regarding living alone. Generally, and irrespective of the welfare state regime and family system, women in Europe tend to enter a relationship and have children at a younger age than men (Eurostat 2018). The role of marriage for the transition into single living is different between men and women, where men are more likely to have never married, whereas women live alone to a greater extent following a divorce or the death of a spouse (Demey et al. 2013; McKie and Cunningham-Burley 2005). The pathways into living alone are also associated with different re-partnering risks between men and women, where men re-partner more frequently than women (Kreidl and Hubatková 2017; Brown et al. 2019; Demey et al. 2013). Previous research has also shown that men are more likely to live alone up to their fifties and sixties, but after this the gender pattern is reversed with more women living alone than men (Iacovou and Skew 2011; Jamieson, Wasoff, and Simpson 2009; Reher and Requena 2018). The fact that women of older ages live alone to a greater extent than men has been seen in almost all European countries (Iacovou and Skew 2011; Fokkema and Liefbroer 2008; Gierveld, Dykstra, and Schenk 2012) and can be explained by differences in spousal age gaps and life expectancy (Demey et al. 2013; Iacovou and Skew 2011; Fokkema and Liefbroer 2008). Further, the proportion of women living alone in later life have increased over time in most European countries, even in societies with traditionally strong family ties, like Spain (Reher and Requena 2017).

As a living arrangement, and following a life course perspective, one-person households are by no means a homogenous category. For previously partnered people of working age in particular, there is a high proportion of single mothers with coresident children, whereas a high proportion of the corresponding fathers have to live alone or return to their parental homes (unless they re-partner) (Ongaro, Mazzuco, and Meggiolaro 2009). Regarding cross-country differences in living as a single parent, the proportion of women living with coresident children from previous relationships is highest in the Scandinavian countries, followed by Western European, Eastern European, and Southern European countries (Berkman et al. 2015). The differences in European countries between the proportion of single parents are highly associated with the opportunities made available to single parents by national welfare states and social policies as well as the supply of housing in the respective country (Murie and Musterd 2004). Further, Northern European countries in general and Nordic societies are typified by small households, early home-leaving patterns, and a very low proportion of extended families. In contrast to these rather weak family societies in the North, Southern and Eastern European societies tend to have larger households, later homeleaving patterns, and a larger proportion of people living in extended families that include grandparents or other relatives (Sobotka and Toulemon 2008; Iacovou and Skew 2011).

2. Data and method

The source material for this study comprises data from Wave 1 of the Generations and Gender Survey (GGS) collected between 2002 and 2013. In our analysis, we have selected the 12 European countries that have available data: Sweden, the Netherlands, France, Belgium, Germany, Poland, Hungary, Romania, Bulgaria, Estonia, Austria, and Italy. Even though the GGS included more countries, a couple of countries were excluded from the analysis based on (1) small sample size in the relevant age-span (e.g., fewer than 3,000 individuals) and/or (2) having an incompatible household scheme (Russia). For our purpose, there are some shortcomings in the GGS data. First, besides Sweden, the GGS lacks data from more countries representing the Nordic region, and only Italy represents the South/Mediterranean area, although it is a strength that the data represent a wide range of countries in Western, Central, and Eastern Europe. This makes it possible to gain a good picture of how the association between education and single living varies across all the main sub-regions of Europe that are usually defined based on various political, historical, or cultural criteria.

In order to analyze between-country differences in gender equality, we have organized the analysis of the countries according to their values on the World Economic Forum's Global Gender Gap Index, ranging from highest (Sweden) to lowest (Italy) (Table 1).

Country	N	Survey period	Gender Gap Index	
Sweden	5,864	2012-2013	0.812	
Germany	6,392	2005–2005	0.750	
Netherlands	5,787	2002–2004	0.739	
Belgium	4,752	2008–2010	0.722	
Austria	3,167	2008–2009	0.706	
Estonia	4,893	2004–2005	0.703	
Bulgaria	7,881	2004–2004	0.702	
France	6,491	2005–2005	0.701	
Poland	12,527	2010–2011	0.691	
Romania	7,743	2005–2005	0.681	
Hungary	8,487	2004–2005	0.678	
Italy	8,034	2003–2003	0.666	

Table 1:Number of cases, survey period, and Gender Gap Index for the
included countries, individuals aged 30–64 years

Source: Gender and Generations Survey Wave 1 (http://www.ggp-i.org/data/) and WEF – Global Gender Gap Report 2006–2010.

The sample size and the start and end year of the survey period are presented in Table 1. GGS data include samples that should represent the target population. All estimates of relative frequencies were weighted using the country-specific analytical weights provided in the GGS data to account for recruitment biases in certain groups (Simard and Franklin 2005). The estimated probabilities of living alone were calculated using logistic regression models, estimating odds ratios with 95% confidence intervals. In the case of the logistic regression analysis, we chose not to include weights in the analysis because the GGS data do not provide probability weights, which would be the appropriate method to apply in logistic regression. Also, the influence of weighting on parameter estimates in logistic regression is expected to be much less important than in prevalence calculations (Fokkema et al. 2016). This is confirmed by our analysis showing that the inclusion of analytical weights in the regression through the *iweight* option in Stata essentially has no impact on the estimated proportions given by the logistic regression analysis (StataCorp 2017).

2.1 The variables

Living arrangements: In this paper we differentiate between living arrangements as 'living alone,' 'living as a lone parent/single parent,' 'living with parents,' 'living as a couple,' 'living as a couple with children' (hereafter referred to as 'nuclear'), and 'other.' 'Other' living arrangements included individuals living with grandparents or great-grandparents or living with siblings. A similar categorization was used by Fokkema and Liefbroer (Fokkema and Liefbroer 2008).

Working age was categorized in five-year age categories as 30–34, 35–39, 40–44, 45–49, 50–54, 55–59, and 60–64 years. Unfortunately, the Austrian sample did not include respondents aged 50 years and older. Thus, some caution should be exercised when comparing Austria with the other countries.

For education, we used the International Standard Classification of Education as indicator of the respondent's highest level of education, which was categorized as 'low' (ISCED 0–2), 'middle' (ISCED 3–4), or 'high' (ISCED 5–6).

2.2 Method

To estimate the effect of education on the probability of living alone, we estimated odds ratios with 95% confidence intervals in full interaction logistic regression models with the outcome of living alone coded as a straightforward dichotomous variable. Apart from education, the models include controls for age, gender, parenthood (children/no children), and the interactive terms of educational level*gender, age*gender, and parental status*gender. The results of the regression are presented as marginal effects in

the form of estimated probabilities for different levels of education (Figures 2–4 in the results section).

Our main outcome refers to being the sole person living in the household, and thus we do not include single parents residing with children in the category of one-person households. However, we do control for the individual's parental status in our regression analysis to get estimates of the probability to be a one-person household for individuals with different levels of education net of the differences in parental status. The distribution of all included variables for each country is shown in Table A-1 in the appendix with the addition of marital status that we choose to not control for in our models. The reason for excluding the marital status is that being married perfectly, or nearly perfectly, predicts the outcome in many of the included countries.

3. Results

3.1 Living arrangements in Europe

Figure 1 shows the proportion of men and women in different living arrangements. Red color shows a relative excess of men while green color shows a relative excess of women. For each bar the brown color should be interpreted as the proportion of the gender that is underrepresented in the living arrangement in question. After living in a nuclear family or as a couple with no children, living alone is the third most common living arrangement in Northern and Western European countries (Figure 1). The exception is Austria, where living alone is the second most common living arrangement, which is almost certainly the result of the exclusion of individuals aged 50 years and older in the data for Austria. This age group contains a high number of couples for whom their children have moved out of the parental home, which makes the living arrangement of couples with no children in the household under-represented in the Austrian case. Besides Austria, the highest proportion of those living alone are found in Sweden and Germany.



Women

Figure 1: Proportion of working-age (30–64) men and women in different living arrangements in different European countries 2002–2013

Source: Gender and Generations Survey Wave 1 (http://www.ggp-i.org/data/).

In both Eastern and Southern Europe, levels of single living are considerably lower than in Northern European countries and, in most cases, living in the parental home is a more common living arrangement than living alone in an independent household. In this respect, Italy stands out in terms of a similar share of the population living in the parental home and as a couple with no children, making it the third most common living arrangement in the country.

In Eastern Europe, living alone is even less common, reaching around or even below 10% of the population aged 30–64 years in Romania, Bulgaria, Hungary, and Poland. Among all countries, living alone is the least common living arrangement in Bulgaria, which also has the highest proportion of those living in 'other types' of living arrangements. Generally, in these Eastern European countries, living as a single parent is more common than living alone, and a significantly higher proportion of single living parents are women. This higher proportion of single mothers in Bulgaria, Poland, Hungary, Italy, and Austria is combined with a higher proportion of males living in their parental homes. In all of the countries except Hungary, Romania, and Estonia, living alone is more frequent among men, and the difference between the genders is most pronounced in Germany, followed by Austria. In the case of Austria this pattern is the result of not including individuals aged 50–64 where living alone is more common among women.

3.2 Living alone in Europe by age group and gender

In Figure 2, we present the estimated probabilities of living alone in the 12 European countries in different age groups, ordered here according to their gender gap index value (from highest in Sweden to lowest in Italy). The full models used to calculate the marginal effects can be found in Table A-1 in the Appendix. With the exception of Germany and France, the probabilities of living alone are quite similar between men and women up to the age of 50–54 years. Thereafter, the probability among women exceed that of men in all countries. However, there is a tendency for the increase in women living alone after the age 50 years to be stronger in less gender equal societies such as France, Poland, Romania, and Hungary but not in Italy, which has the lowest score in the gender gap index of all countries in our sample.

Figure 2: Probability of living alone by five-year age groups for men and women aged 30–64 years in different European countries from 2002– 2013



Source: Gender and Generations Survey Wave 1 (http://www.ggp-i.org/data/).

Generally, for countries that score low values in the gender gap index, the proportion of those living alone among the youngest age group is very low. Typical examples of this pattern in our sample are Bulgaria, Poland, Romania, and Italy. This is likely the result of a delayed age at which an individual leaves their parental home, as indicated by Figure 1, which shows the highest levels of coresidence with parents in Italy as well as in Bulgaria and Poland.

3.3 Living alone in Europe by level of education and gender

In Figure 3, we show the estimated probability of living alone while controlling for differences in age distributions, gender, and parental status of the individuals. From Figure 3, which provides the overall effect of education for men and women jointly, it is possible to identify two major patterns in how education is associated with living alone across the countries included in the analysis. First, a significant negative gradient of education on living alone is found in Sweden, the Netherlands, and Estonia. The tendency is the same in the other countries that score higher values on the gender gap index, including Germany, Belgium, and Austria, although the difference in the estimated probabilities are not significant in these countries. Second, a significant positive gradient of living alone is found in Italy and Poland. The positive relationship with education is strongest in Italy, which scores the lowest value on the gender gap index, and where the proportion of those living alone is almost twice as high among the high educational category compared to the corresponding proportion among the lowest educated (ISCED 0-2). To summarize, the countries that score high values on the gender gap index (more gender equal) tend to exhibit a negative educational gradient, although the differences between educational groups tend to be quite modest. However, countries that score low values on the gender gap index (less gender egalitarian) tend to have a positive association between the probability of living alone and education. This positive association is especially strong in Italy and Poland and reaches statistical significance.



Figure 3: Estimated probabilities of living alone by level of education in different European countries from 2002–2013

Source: Gender and Generations Survey Wave 1 (http://www.ggp-i.org/data/). Note: Marginal effects from logistic regression models in Table A-2 in the Appendix. The model includes controls for age, gender, parental status, and interactions of age*gender, education*gender, and parental status*gender.

Figure 4: Estimated probabilities of living alone for men and women by level of education in different European countries from 2002–2013



Source: Gender and Generations Survey Wave 1 (http://www.ggp-i.org/data/). Note: Marginal effects from logistic regression models in Table A-2 in the Appendix. The model includes controls for age, gender, parental status, and interactions of age*gender, education*gender, and parental status*gender. In Figure 4, we control for differences in age distribution and parental status and present the estimated probabilities of living alone for men and women respectively, with different levels of education. Generally, the more gender equal countries – Sweden, Belgium, the Netherlands, and Austria – are characterized by a converging gender pattern according to level of education. In these countries, the greatest gender differences are found among individuals in the low education category, in which women show a significantly lower probability of living alone compared to men. The difference between low educated men and women is, however, only statistically significant in Belgium. The main reason for the difference between low educated men and women in these more gender equal countries is that single motherhood is more concentrated on the low educated group.

Continuing with the less gender equal countries, women generally have higher probabilities of living alone compared to their male counterparts, particularly in Poland, Romania, Hungary, and Italy. In Estonia, the educational difference in living alone by gender follows the more gender equal countries in terms of being negative. In Bulgaria and France, with medium levels of gender equality according to the gender gap index, there is no effect of education and both men and women exhibit similar probabilities of living alone across all levels of education. With the exception of Hungary, all of the countries that score at the lower end of the gender gap index – Poland, Romania, and Italy – exhibit a substantial positive educational gradient of living alone among women. In Italy, which scores the lowest values of gender equality, the positive gradient is clearly present for both highly educated men and women who are much more likely to live alone than the lowest educated.

Although we control for the parental status of the individual and its interaction with gender, we ran additional models that include single parents in the category of one-person households as a robustness check. This is motivated by the fact that the life course trajectory of single parents and actual one-person households many times are similar in terms of having experienced separation or divorce, but the risk of living as a single parent are higher for women than for men. This alternative specification to include single parents does not change our main conclusions regarding a negative educational gradient of living alone in the more gender equal countries. Rather, when we include single parents in the category of one-person households, the gradient becomes clearly negative and significant also for women in Sweden, the Netherlands, and Belgium. This is the expected result, as we know that low education increases the risk of single parenthood in Northern Europe. When single parents are included, we find an almost identical negative gradient between education and the probability to live alone for both men and women in the more gender equal countries while the positive gradient found in the less gender equal countries remains unchanged (results not shown).

4. Conclusions

Our study has revealed the association between education and living alone among the working-age population in 12 European countries. As expected, living alone is much more common in Northern and Western Europe than in Eastern and Southern Europe (Esping-Andersen 2016; Fokkema and Liefbroer 2008; Iacovou and Skew 2011; Kaufmann 1994; Sobotka and Toulemon 2008; Stella 2017). As found in previous research, the highest rates of living alone in the working-age population are found in the Northern European countries. Germany, Sweden, and the Netherlands stand out as having high unadjusted rates (Fokkema and Liefbroer 2008).

A general pattern is that living alone in the mid-aged groups between 30–50 years is substantially higher in the more gender equal Northern European countries than in less gender equal countries in Southern and Eastern Europe, both in descriptive rates and when we control for differences in the age structure and parental status. In this younger mid-aged group, the gender differences tend to be minor, and living alone is slightly lower among women than men, especially in the more gender equal countries with the exception of Germany, which exhibits larger gender disparities in this age-span. In the age span from 50–64 years the share of women living alone increases more rapidly than among men in all countries, but the shift to a surplus of women living alone tends to be somewhat more pronounced in the less gender equal countries.

Regarding the educational gradient of living alone, the pattern that stands out is a tendency for a small though, in several cases, significant negative association between education and the probability of living alone in the more gender equal countries in Northern Europe, such as in Sweden, the Netherlands, and Belgium. In less gender equal countries in Southern and Eastern Europe, we find a tendency for an opposite positive association in which living alone is more common in the more highly educated groups.

A significant and strongly positive educational gradient of living alone for both genders was found for the country that scored the lowest value on the gender gap index, namely Italy. It is clear that the positive educational gradient of living alone in less gender equal countries is driven to a greater extent by women than men, where we have a clearly significant positive gradient for women in Poland, Romania, and Italy.

In terms of the differences across educational groups among women, Poland and Italy stand out as the countries that have the strongest increases across educational levels among women. Comparing the differences between men and women, our results show a converging pattern in a Nordic-Western cluster of countries, in which gender differences are highest among the lowest educated and are generally nonsignificant for the highest educational level. In terms of gender differences, the high proportion of women in Eastern European countries above the age of 50 who live alone relative to men is a particularly interesting topic for further research. Women living alone in this age span are found to be more economically disadvantaged and more often childless than women living alone in earlier midlife, resulting in different levels of informal support and access to care later in life (Gierveld, Dykstra, and Schenk 2012; Hansen and Slagsvold 2016).

The results of this analysis fit with the suggestion that a demographic reversal has occurred in more gender equal countries, with a resurgence of the family (higher fertility, lower divorce rate, etc.) among more highly educated women (Esping-Andersen 2016). In such countries, a number of studies suggest that less educated women appear to be experiencing less favorable family outcomes than their highly educated counterparts (Esping-Andersen 2016). In our study, we find no evidence of a positive educational gradient of living alone among mid-aged women in the more gender egalitarian Northern European countries. When we include single parents in the category of one-person households, the gradient becomes clearly negative in the most gender equal countries. In comparison, a positive gradient is evident in the least gender equal countries, especially among women in countries such as Poland, Romania, and in Italy in particular, which score the lowest values in our sample on the Global Gender Gap Index.

The North–South disparities in family dynamics that have evolved since the turn of the millennium have inspired the U-shape hypothesis that postulates that the breakthrough in gender equality has had an initial negative effect on family formation and cohesion. However, over time, this negative effect has decreased and even disappeared to the extent that policy and labor market structures, as well as male attitudes to gender equality in the private sphere, are able to adapt to the new economic roles of women (Goldscheider, Bernhardt, and Lappegård 2015; Esping-Andersen and Billari 2015; Anderson and Kohler 2015; Arpino, Esping-Andersen, and Pessin 2015).

Some of the results presented in this study fit with this theoretical presupposition, seen among the countries at the end point of the gender equality index, in which Sweden, the Netherlands, and perhaps, more surprisingly, Estonia, have a significant negative educational gradient and, at the other end, Poland and Italy reveal a positive educational gradient of living alone. If we look at women only, Romania also joins this group of less gender equal countries, in which highly educated women live alone more often than low educated women. We note several possible explanations for these results. First, in the less gender equal countries in Eastern and Southern Europe, highly educated women have financial and sociocultural resources to refrain from traditional family behavior and are able to act as forerunners in the shift to higher levels of living alone, as predicted by the theory of a Second Demographic Transition (Lesthaeghe 2011). This is the expected pattern during the early stages of rapid changes in the

gender regime when gender egalitarian values have not yet achieved a 'dominant normative status' and women with higher human capital still experience difficulties combining family life with the desire to pursue a career. In comparison, in the more gender equal countries in Northern Europe, highly educated women experience less role conflicts, as both institutions and male norms are more in tune with a dual provider model. Here both men and women holding a lower educational level might be perceived as less attractive partners with uncertain prospects, especially seen among lower educated men in Northern and Western Europe (Oppenheimer 2003). Third, it is possible that in more gender equal countries where role conflicts are less strong in dual earner couples, marriage and a more traditional family life has been re-valued as a symbol of prestige and personal achievement among higher educated individuals in Northern and Western Europe (Cherlin 2004, 2010). However, it should be noted that it is primarily the positive educational gradient of living alone for women in the least gender equal that stands out clearly in our study. We do not see a clear negative gradient of living alone for women even in the most gender equal countries in the North when we exclude single parents. Because children more often reside with women after divorce and separation and living as a single parent is more common among women with low levels of education, the negative association between education and living alone in Northern Europe is attenuated for women who are not parents. However, it should be noted that when women who live as single parents are included in the oneperson household category, the educational gradient becomes clearly negative for both genders in the most gender equal countries, and the positive gradient in the lest gender equal countries remain unaffected.

However, a limitation of this study is that we are only able to look at the associations between education and living alone among men and women in different societies in Europe at a specific point in time that covers the latter years of the first decade of the millennium. To fully understand how family dynamics are changing in this respect, we need to study living arrangements in different educational strata over longer periods of time and include more countries than the present study. This will allow comparisons regarding how the educational gradient of living alone is changing over time within different countries. It would also be very useful to expand the number of countries involved in the analysis in order to enhance the possibilities of drawing firm conclusions about how the level of gender equality relates to educational differentials in living arrangements across educational strata. What is particularly required is the inclusion of more countries that represent the Nordic and Southern European clusters, which are only represented by Sweden and Italy in our sample.

Another important avenue for further research would be the comparison of different countries and contexts using longitudinal data representing life trajectories. From previous research following a life course perspective, we know that the pathways

into living alone differ by gender, partnership histories, parenthood, and socioeconomic resources (Jamieson, Wasoff, and Simpson 2009; Iacovou and Skew 2011; Goldscheider, Bernhardt, and Lappegård 2015; Giuliano 2007; Gaymu et al. 2006). The heterogeneity among those living alone by gender, age, and educational level found in this cross-sectional study implies the need to use longitudinal data to increase understanding of pathways into single living as well as the consequences (social, economic, and health) for different groups of one-person households and how this relates to societal differences and the prevailing gender regime.

Previous studies have predicted that more people will live alone in the future, especially in countries where the trend has recently started. An increase in the share of one-person households among the midlife population has important policy implications, as previous research has revealed that a high proportion of these individuals will enter old age as single living individuals and that older individuals living alone are more vulnerable to adverse health outcomes and poverty (Gaymu and Springer 2012).

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Appendix

Table A-1:	Descriptive	statistics
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	Sweden	Germany	Netherlands	Belgium	Austria	Estonia	
	(N = 5850)	(N = 6298)	(N = 5775)	(N = 4732)	(N = 3167)	(N = 4893)	
Sex respondent							
Male	lale 2822 (48.2%) 2820 (44.8%)		2446 (42.4%)	2248 (47.5%)	1237 (39.1%)	1789 (36.6%)	
Female	3028 (51.8%)	3028 (51.8%) 3478 (55.2%)		2484 (52.5%)	1930 (60.9%)	3104 (63.4%)	
Five-year age-group							
30–34	699 (11.9%)	758 (12.0%)	903 (15.6%)	588 (12.4%)	880 (27.8%)	764 (15.6%)	
35–39	810 (13.8%)	1022 (16.2%)	968 (16.8%)	667 (14.1%)	970 (30.6%)	680 (13.9%)	
40–44	884 (15.1%)	1167 (18.5%)	950 (16.5%)	727 (15.4%)	1206 (38.1%)	719 (14.7%)	
45–49	942 (16.1%)	996 (15.8%)	846 (14.6%)	821 (17.3%)	111 (3.5%)	757 (15.5%)	
50–54	824 (14.1%)	850 (13.5%)	836 (14.5%)	687 (14.5%)	0 (0.0%)	704 (14.4%)	
55–59	825 (14.1%)	726 (11.5%)	715 (12.4%)	644 (13.6%)	0 (0.0%)	681 (13.9%)	
60–64	866 (14.8%)	779 (12.4%)	557 (9.6%)	598 (12.6%)	0 (0.0%)	588 (12.0%)	
Childless							
No	4972 (85.0%)	4922 (78.2%)	4390 (76.0%)	3852 (81.4%)	2435 (76.9%)	4390 (89.7%)	
Yes	878 (15.0%)	1376 (21.8%)	1385 (24.0%)	880 (18.6%)	732 (23.1%)	503 (10.3%)	
Level of education							
ISCED 0-2	523 (8.9%)	607 (9.6%)	1946 (33.7%)	1366 (28.9%)	375 (11.8%)	740 (15.1%)	
ISCED 3-4	3038 (51.9%)	3805 (60.4%)	1761 (30.5%)	1552 (32.8%)	2130 (67.3%)	2552 (52.2%)	
ISCED 5-6	2289 (39.1%)	1886 (29.9%)	2068 (35.8%)	1814 (38.3%)	662 (20.9%)	1601 (32.7%)	
Marital status respond	ent						
Never married	1676 (28.6%)	1309 (20.8%)	1283 (22.2%)	704 (14.9%)	946 (29.9%)	922 (18.8%)	
Married	3127 (53.5%)	4218 (67.0%)	3596 (62.3%)	3040 (64.2%)	1901 (60.0%)	2929 (59.9%)	
Divorced	575 (9.8%)	547 (8.7%)	721 (12.5%)	529 (11.2%)	291 (9.2%)	750 (15.3%)	
Widowed	55 (0.9%)	109 (1.7%)	173 (3.0%)	100 (2.1%)	17 (0.5%)	287 (5.9%)	
Unknown	417 (7.1%)	115 (1.8%)	2 (0.0%)	359 (7.6%)	12 (0.4%)	5 (0.1%)	
	Bulgaria	France	Poland	Romania	Hungary	Italy	
	(N = 7810)	(N = 6491)	(N = 12492)	(N = 7743)	(N = 8487)	(N = 8034)	
Respondent lives alon	e						
No	7386 (94.6%)	5134 (79.1%)	10887 (87.2%)	7123 (92.0%)	7682 (90.5%)	7290 (90.7%)	
Yes	424 (5.4%)	1357 (20.9%)	1605 (12.8%)	620 (8.0%)	805 (9.5%)	744 (9.3%)	
Sex respondent							
Male	3499 (44.8%)	2874 (44.3%)	5347 (42.8%)	3933 (50.8%)	3812 (44.9%)	3703 (46.1%)	
Female	4311 (55.2%)	3617 (55.7%)	7145 (57.2%)	3810 (49.2%)	4675 (55.1%)	4331 (53.9%)	
Five-year age-group							
30–34	1585 (20.3%)	909 (14.0%)	1719 (13.8%)	1031 (13.3%)	1289 (15.2%)	1010 (12.6%)	
35–39	1450 (18.6%)	1059 (16.3%)	1648 (13.2%)	1373 (17.7%)	1109 (13.1%)	1264 (15.7%)	
40–44	1491 (19.1%)	967 (14.9%)	1335 (10.7%)	886 (11.4%)	1047 (12.3%)	1263 (15.7%)	
45–49	810 (10.4%)	929 (14.3%)	1409 (11.3%)	1110 (14.3%)	1304 (15.4%)	1083 (13.5%)	
50–54	853 (10.9%)	948 (14.6%)	1892 (15.1%)	1268 (16.4%)	1393 (16.4%)	1003 (12.5%)	
55–59	879 (11.3%)	952 (14.7%)	2293 (18.4%)	1201 (15.5%)	1218 (14.4%)	1134 (14.1%)	
60–64	742 (9.5%)	727 (11.2%)	2196 (17.6%)	874 (11.3%)	1127 (13.3%)	1277 (15.9%)	
Childless							
No	6862 (87.9%)	5390 (83.0%)	10551 (84.5%)	6614 (85.4%)	7384 (87.0%)	6043 (75.2%)	
Yes	948 (12.1%)	1101 (17.0%)	1941 (15.5%)	1129 (14.6%)	1103 (13.0%)	1991 (24.8%)	

	Bulgaria	France	Poland	Romania	Hungary	Italy
	(N = 7810)	(N = 6491)	(N = 12492)	(N = 7743)	(N = 8487)	(N = 8034)
Level of education						
ISCED 0-2	1768 (22.6%)	1876 (28.9%)	1641 (13.1%)	2541 (32.8%)	1832 (21.6%)	4243 (52.8%)
ISCED 3-4	4226 (54.1%)	2781 (42.8%)	8361 (66.9%)	4365 (56.4%)	5197 (61.2%)	2866 (35.7%)
ISCED 5-6	1816 (23.3%)	1834 (28.3%)	2490 (19.9%)	837 (10.8%)	1458 (17.2%)	925 (11.5%)
Marital status respo	ondent					
Never married	1107 (14.2%)	1520 (23.4%)	1654 (13.2%)	757 (9.8%)	888 (10.5%)	1530 (19.0%)
Married	5800 (74.3%)	3765 (58.0%)	8815 (70.6%)	6044 (78.1%)	5878 (69.3%)	5956 (74.1%)
Divorced	497 (6.4%)	1023 (15.8%)	1091 (8.7%)	477 (6.2%)	956 (11.3%)	187 (2.3%)
Widowed	272 (3.5%)	183 (2.8%)	911 (7.3%)	460 (5.9%)	559 (6.6%)	302 (3.8%)
Unknown	134 (1.7%)	0 (0.0%)	21 (0.2%)	5 (0.1%)	206 (2.4%)	59 (0.7%)

Table	A-1: ((Continued)	

Source: Gender and Generations Survey Wave 1 (http://www.ggp-i.org/data/).

Table A-2: Logistic regressions of probability to live alone in 12 European countries, individuals aged 30–65 years

Variables	Sweden	Germany	/Netherlands	Belgium	Austria	Estonia	Bulgaria	France	Poland	Romania	Hungar	yltaly
Sex respondent												
Female	0.59	0.56	0.41***	0.42*	0.14***	0.36**	0.48	0.37**	*0.47**	0.80	0.43*	1.10
Five-year age- group												
35–39	1.45	1.09	1.12	1.26	1.28	1.12	2.12**	1.02	1.05	0.89	1.18	2.01**
40–44	1.48	1.03	1.17	1.37	1.57*	1.36	2.41***	1.45*	1.64*	1.76*	1.63*	2.77***
45–49	2.17**	1.05	1.54*	2.05**	1.55	1.25	3.33***	1.47*	2.22***	1.77*	1.98**	2.87***
50–54	2.76***	0.86	1.70**	2.08**		1.95*	4.43***	1.69**	2.07***	2.87***	2.44***	6.20***
55–59	3.58***	1.25	1.94**	1.35		1.84*	4.16***	1.65**	3.37***	2.82***	2.46***	8.55***
60–64	5.32***	0.83	2.06**	1.46		2.12*	4.80***	1.47	3.49***	3.11***	2.34***	7.11***
Childless												
Yes	30.95***	7.97***	13.07***	9.07***	11.02***	5.84***	12.25***	12.79**	*6.15***	12.53***	7.20***	9.30***
Level of education												
ISCED 3-4	0.79	1.25	0.75*	0.69*	0.87	0.71	0.90	0.98	0.80	0.63**	0.75	1.56**
ISCED 5-6	0.52**	0.93	0.66**	0.68*	0.67	0.63*	1.10	1.00	1.24	0.93	0.71	2.09***
Education * Sex												
ISCED 3-4 * female	1.55	0.62	1.31	1.46	1.31	1.15	1.15	0.91	1.48*	1.76**	1.25	1.09
ISCED 5-6 * female	2.12*	0.88	1.39	1.62*	1.16	1.13	0.99	1.18	1.31	1.77	1.46	1.06
Age-group * Sex												
35–39 * female	0.64	0.78	0.96	1.12	1.59	0.90	0.90	0.98	0.86	1.00	0.75	0.57
40-44 * female	0.93	0.77	0.77	0.92	1.57	1.00	0.80	0.96	1.14	0.50	0.95	0.65
45–49 * female	0.95	1.20	1.17	1.04	3.71	1.71	1.41	1.26	1.01	0.87	1.11	0.78
50–54 * female	1.45	2.67***	2.03*	1.45		2.23*	1.89	2.62**	*2.72***	1.04	2.10*	0.86
55–59 * female	2.05*	2.57***	2.60**	3.17**		5.05***	2.78*	5.09**	*2.51***	1.99	4.62***	0.77
60–64 * female	2.21*	7.33***	4.12***	3.33**		7.22***	5.71***	7.26**	*4.14***	3.83***	7.57***	1.97
Childless * Sex												
Yes * female	0.55**	1.16	1.73**	1.05	6.03***	2.13**	1.12	2.05**	*1.37*	0.61*	1.74**	1.63*
_cons	0.03***	0.12***	0.10***	0.06***	0.05***	0.08***	0.01***	0.10**	*0.04***	0.02***	0.04***	0.01***
N	5850	6298	5775	4732	3167	4893	7810	6491	12492	7743	8487	8034

Note: * p < .05; ** p < .01; *** p < .001.