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Understanding the benefits of migration: Multigenerational transmission, gender and educational outcomes of Turks in Europe

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Abstract

Research commonly compares the educational outcomes of migrants and the second generation to their native peers in destination countries, often finding the former groups lagging behind in education. Their outcomes are rarely compared to their non-migrant peers in the origin countries. Using the *dissimilation from origins* perspective, we ask whether Turkish-origin men and women in Europe benefit from migration by comparing their educational outcomes to non-migrants in Turkey. At the same time, we comparatively examine the intergenerational transmission of education to determine to what extent individuals capitalise on their parents and grandparents' resources. Analysing the novel 2000 Families data, we show that migrants and their descendants in Europe obtain higher education than their non-migrant peers in Turkey. While both men and women experience educational benefits from migration, women's gains are higher. Another salient finding is that Turkish-origin parents in Europe are less able to pass on their socioeconomic resources to their children than their counterparts in Turkey. Overall, the findings corroborate the theory of the dissimilation of Turkish-origin Europeans from their Turkish peers in educational attainment.

Keywords: educational outcomes; international migration; gender; intergenerational transmission; dissimilation

Introduction

A plethora of studies compare the education of first and second-generation migrants with native populations across a range of countries in Europe, but we have a weaker understanding of where migrants and their descendants stand with respect to their comparators in the origin countries. This type of comparison is more common in the US (Thomas and Znaniecki 1918; Massey et al. 1987). It is emerging in Europe (Beauchemin et al. 2015; Guveli et al. 2016; Guveli et al. 2017), but it is yet to be fully realized.

Both origin and destination countries are not static but dynamic; non-migrants in both societies face contextual transformations. Therefore, change and stability in migrants' and their descendants' lives should be analysed relative to these transformations in both societies. That is, research should also include a comparison group of non-migrants in the origin countries. Only this assessment can reveal the consequences of migration for people with migration background and will generate a broader and transnational understanding of the dynamics of international migration. To further this line of analysis, in this article we examine the educational outcomes of men and women of Turkish background in Europe and the intergenerational transmission of education, comparing their situation to that of non-migrants in Turkey.¹

Turks are a logical choice for this type of analysis, as they represent the largest non-EU migrant group in Europe. The group has a long migration history and specific origin country characteristics – they are predominantly Muslim, for example. Migration started over a half century ago under the 'guest worker' program, and many of these early migrants settled in their destination countries (Akgunduz 2008). The children and grandchildren of the 'guest workers' now constitute a significant share of the population in Western European countries. Their relatively low socio-economic achievement is a repeated and worrying finding of country-specific and comparative studies (Crul and Doornik 2003; Heath, Rethon and

Kilpi 2008; Van Tubergen and Van de Werfhorst 2007). However, these studies typically compare Turkish origin people with the natives of their European destination countries, which might not be the best comparison to reveal the consequences of migration. To reveal the impact and gains or losses of migration, research should compare migrants and their offspring to their counterparts in the origin societies. The 2000 Families dataset (Guveli et al. 2016) gives us an opportunity to do so.

Despite the risks and challenges, people move to improve their own and their children's life prospects, but the extent to which they succeed has been questioned. When they are compared to natives in the destination societies, for example, research generally finds a lag in migrant women's and men's employment likelihood (Donato, Piya and Jacobs 2014). Yet a few small-scale studies comparing migrants to those in origin countries find migration has benefits, especially for women (Hondagneu-Sotelo 1994; Pessar 2005). Large-scale research on the impact of migration on women is rare, with some exceptions (Dollmann 2017; Fleischmann et al. 2014; Zuccotti et al. 2017), but to reveal the impact of migration and shed further light on the findings of the small-scale studies, research should include a comparison group in the origin countries.

There is a vast body of research on multi-generational social reproduction in majority populations (Bol and Kalmijn 2016; Breen 2018; Chan and Boliver 2013; Erola and Moio 2007; Hertel and Groh-Samberg 2014; Mare 2011; Modin, Erikson and Vågerö 2012; Møllegaard and Jæger 2015; Pfeffer 2014). This focus is rarely found in international migration studies. In one exception, when Telles and Ortiz (2008) include three to four-generation descendants of Mexican migrants in the US, they find the effects of migration last for generations. Except Guveli et al. (2017), until now, no other work has integrated an origin country comparison and multiple family generations. Using the 2000 Families data allows us to do so.

In what follows, we look specifically at education. Educational expansion in the European countries has increased the opportunities for all segments of society, including the offspring of migrants. Turkey has also seen an expansion in education, and this improvement may have reduced the benefits of migration in terms of educational outcomes for the descendants of migrants. To see if migration has an enduring effect on education, we investigate educational transmission over three generations by comparing the educational outcomes of male and female Turks in Europe and Turks in Turkey.

We pose three research questions, setting them within the *dissimilation from origins* theoretical framework. The first two focus on the *dissimilation of migrants from those left behind in the origin country* for men and women separately. The first of these compares the education attainment of Turks in Europe and Turkey. Then, drawing on the literature on the consequences of migration on men and women (Donato, Piya and Jacobs 2014), the second considers the effect of gender. The third question probes the impact of migration across three generations to look for a possible *dissimilation from social origins/ancestor*. That is, the three questions combine two types of dissimilation mechanisms: dissimilation from origin country and dissimilation from social/family origin. The questions read:

- 1) *To what extent does the educational attainment of Turks in Europe differ from that of non-migrants in Turkey?*
- 2) *To what extent is there a gender gap in educational outcomes for Turks in Europe and Turks in Turkey? If there is a gap, how does it differ between these groups?*
- 3) *To what extent does intergenerational transmission of education to children and grandchildren show different patterns in migrant families and non-migrant families?*

We aim to show the *enduring* impact of migration on the educational outcomes of men and women using the unique 2000 Families data (Guveli et al. 2016) collected in five high sending regions in Turkey by sampling migrant and non-migrant ancestors and their

three-generation descendants. While it is almost impossible to realize counterfactual research in migration, the 2000 Families design includes most features of a counterfactual approach and is therefore unique in large-scale migration studies. It offers the opportunity to study migrants and their three-generation descendants in European countries, and their comparators from the same regions of origin in Turkey.

This research contributes to the literature on international migration, social mobility, and gender studies in three ways. First, it reveals the impact of migration on education by comparing migrants and their descendants with non-migrants and their descendants, using complete family genealogies. Second, it tests the hypothesis that women gain more from migration in the long run than men (Pessar 1984). Third, it explores intergenerational transmissions over three generations in a migration context. The three-generation transmission model provides a better understanding of how family resources may shape educational outcomes in a migration context where transmission may be disrupted (Nauck, Diefenbach and Petri 1988).

Significance of Turkish Migration to Europe and Education in Turkey

Four characteristics make the Turkish origin migrants and their descendants in Europe relevant for a study of change and stability across multi-generations and across origin and destination contexts. First, they form the largest non-EU origin group with an estimated five million members. Size matters: larger migrant groups are better at establishing their ethnoreligious organisations, but they are slower in integration processes (Esser 2004). Second, Turks in Western Europe are predominantly labour migrants. They started to arrive under the guest worker program in the early 1960s. After the program ended in 1974, about 70 per cent of these pioneering migrants returned to Turkey (Guveli et al. 2016). Overall, however, migration continued to expand, with some seeking family unification and formation

and others seeking asylum or education. The grandchildren of the labour migrants now represent a significant group in the European destination countries, and migration flows are continuing, albeit with shifts in migrant types.

Third, Turks are distributed in about ten Western European countries; about 60 per cent of them in Germany, 14 per cent in France and 12 per cent in the Netherlands. They also appear in significant numbers in other countries such as Belgium, Austria, Denmark, Sweden, Switzerland, Norway, and the UK. Fourth, Turks are overwhelmingly Muslim. They introduced Islam to the wider public in Europe in the 1960s along with other Muslim labour migrants. Religion is known to be an important factor in the settlement and integration of migrant groups (Herberg 1955; Smith 1978; Ersanilli and Koopmans 2011).

The benefits and losses of migration should be understood in the context of the social and economic developments taking place in both destination and origin societies. Education is our present focus. Turkey has undergone substantial changes since the first guest worker program started in 1961 (Pamuk 2012), but it still lags behind Western European receiving countries. Figure 1 shows the share of the population with tertiary education for men and women between the 1980s and 2017 for Turkey, Germany, France, and the Netherlands (three largest receiving countries). Clearly, access to tertiary education in Turkey has improved considerably. Tertiary enrolment has traditionally been very low, but it gradually rose and made a sharp jump in the 2000s, narrowing the gap in the last decade.²

--- Insert Figure 1 ---

When we look at the genders separately, we see women in Turkey made substantial progress in gross tertiary school enrolment between 1991 and 2017, rising above 30 per cent, even catching up with Germany in 2017 (Figure 1). Overall, women in Turkey have

increasingly higher levels of education, closing the gender gap in education and becoming increasingly similar to women in Western European countries where the educational gender gap is exceptionally low and where, in some countries, women are ahead of men. Despite its narrowing, a considerable gap between Turkey and Western European countries remains, making educational attainment a useful way to approach migrant success.

Theoretical Perspectives and Hypotheses

Dissimilation from origins

Most studies use assimilation theories to explain migrant trajectories by comparing migrants and their offspring to natives or to other migrant groups in the destination countries (Alba and Nee 2009; Portes 1997). Briefly stated, they examine the extent to which migrants and their descendants become similar to natives. Recent studies have discussed the limitations of these destination country perspectives and proposed extending research beyond the boundaries of nation-states to better understand the processes of international migration (Amelina et al. 2012; FitzGerald 2012; Guveli et al. 2017). As these processes are international, research should include a comparison of migrants to those left behind. In a very early example of this, Thomas and Znaniecki's (1918) influential work compared migrants in America with those left behind in Europe. This research tradition continued in the US with Massey and colleagues (Massey et al. 1987) but is only emerging in Europe (Beauchemin et al. 2015; Guveli et al. 2016).

The *dissimilation from origins* theoretical framework basically refers to the process of becoming different. FitzGerald (2012) suggests the notion of homeland dissimilation to reveal changes in migrants' lives and to show how different they become from non-migrants in the 'homeland'. Guveli et al. (2017) developed the dissimilation from origins framework to trace two processes. The first process, *dissimilation from origin country*, indicates changes

and continuities in migrants' lives compared to non-migrants' lives in the origin country; the second process, *dissimilation from social origin*, traces changes between grandparents, parents and grandchildren. In what follows, we use this framework to shed light on change and continuity in the educational progress of migrants vs non-migrants, ancestors vs descendants and men vs women to better understand the enduring impact of migration.

Movers and Stayers Hypothesis

Recent studies show that although Turks in Europe have lower educational outcomes than natives in their European destination countries, they are more successful than Turks in Turkey (Zuccotti et al. 2017). Dustmann, Frattini and Lanzara (2012) find that Turks in Europe perform better in mathematics than Turks in Turkey but not as well as natives in Germany. They argue that better school and 'peer' quality improve the scores of Turks in Europe over their stay-at-home comparators. Zuccotti and her colleagues (2017) also show that Turkish migrants and the second generation in Europe attain higher levels of education than Turks in Turkey, albeit not as high as native populations in Europe. However, their study compares Turks in Europe to a representative sample of Turks in Turkey. This is not an ideal comparison, because the majority of Turks in Europe originate from rural or semi-rural regions. Guveli and her colleagues (2016) use the 2000 Families dataset to improve the comparison groups of non-migrants in Turkey but they do not focus on gender and migration generations. To expand upon this approach, we use the 2000 Families data and focus on gender and multi-generational transmission among migration generations.

Shaped by the events in previous century (such as development of national education systems, adoption of compulsory education and increasing levels of literacy) across Europe and reinforced by the democratic expansion following the World War I (Muller et al 1997), educational expansion in Western European countries has opened pathways to education for

the wider public and facilitated access for children from all social classes. Since the World War II, a new wave of educational expansion coupled with economic growth and restructuring has opened the doors to higher levels of education and wider public obtained access to upper secondary and tertiary education (Hadjar and Becker, 2009). While recent research documents that expansion does not necessarily increase social mobility (Bukodi and Goldthorpe 2016; Rotman, Shavit and Shalev 2016), social mobility has remained fairly stable in the Western European countries since 1970s (Breen 2004).³ Although Turkey has also expanded its education system, this happened after the mid-1990s. Social mobility is comparatively higher in European destination countries than in Turkey where educational achievement is relatively more dependent on social background (Zuccotti et al. 2017). We might expect, then, that the descendants of Turkish migrants in Europe will have a higher level of education than the descendants of non-migrants who stayed in Turkey (Hypothesis 1). That is, we expect Turkish-origin people in Europe to become *dissimilar* to their counterparts in Turkey in terms of education achieved.

Hypothesis on Gender Gap in Education of Turks in Europe and Turkey

The classic research on international migration to Western countries expects an improvement in women's household and societal conditions (Hondagneu-Sotelo 1992). Women escape the patriarchal structures of their origin societies and find opportunities to empower their household and socioeconomic positions using the opportunities available in the destination countries (Hondagneu-Sotelo 1992). Not all scholars agree with this thesis; some argue that migrant women may seek to maintain traditional role patterns in order to preserve the stability and cohesion of their family and community in unfamiliar and hostile new societies (Abadan-Unat 1977; Pessar 2003). Studies in this vein are pessimistic about the wider emancipating power of migration on women. This mostly represents small-scale research,

and studies often do not include a comparison to those in the origin countries (Abadan-Unat 1977; Hondagneu-Sotelo 1992). Some studies, mostly large-scale research, even find a negative impact of migration on women, with a ‘double disadvantage’ compared to both migrant men and native women in the destination countries (Boyd 1984; Donato, Piya and Jacobs 2014).

Whilst findings on women’s outcomes are mixed, in Europe, there is some evidence that migration is empowering Turkish women (Eroğlu 2018; Huschek et al. 2011). Lesthaeghe and Surkyn (1995) show a slow but clear shift towards more female autonomy for Moroccan and Turkish women in Belgium. And according to more recent research on attitudes to gender equality, migrants and their descendants adopt stronger egalitarian views than their non-migrant counterparts (Guveli et al. 2016). Idema and Phalet (2007) show a shift among female second-generation Turks towards more egalitarian gender-role values. By the same token in an analysis of the 2000 Families data, Eroğlu (2018, p. 1) finds that ‘international migration increases the tendency for spouses to jointly decide on their finances by weakening the intergenerational transmission of traditional financial decision-making behaviors and gender ideologies’. Increasingly egalitarian attitudes are confirmed by Guveli et al (2016) in their research on migrant and non-migrant Turks. Using the European Social Survey, Zuccotti et al. (2017) also show female Turks in Europe are doing particularly well compared to non-migrant Turkish women in terms of education.

Education is one of the most important means for women in traditional communities to break away from restrictive individual and social conditions (Hondagneu-Sotelo 1992), and Western Europe offers more educational opportunities. Hence, we expect Turkish women in Europe will benefit more from their families’ migration than their male peers in Europe (Hypothesis 2). That is, women will become more *dissimilar* to their male peers in Europe and their female counterparts in Turkey.

Hypotheses on Transmission across Generations among Turks in Europe and Turkey

We are also interested in whether parents' (dis)advantages are passed on to their children, especially whether there are differences between migrants and non-migrants. International migration is said to disrupt reproduction across generations (Nauck, Diefenbach and Petri 1988). Arguably, this may include a disrupted transmission of the disadvantages of a lack of education and/or belonging to a lower social class. While the resources of parents may still have an effect on the socio-economic outcomes of children from migrant families (Phalet, Deboosere and Bastiaenssen 2007; Fakjaer 2007), this effect is found to be smaller for children from migrant families compared to their native peers (Levels and Dronkers 2008; Phalet and Heath 2010).

In theory, then, migrants with low education have the opportunity to disrupt the trajectory and further their children's life chances in the egalitarian European societies in which their life chances are better than those in their origin countries (Ponce 2018). In other words, their children's education becomes independent from their own. By contrast, educational reproduction is higher in Turkey (Zuccotti et al. 2017); that is, parents who stay put are more likely to raise children with similar levels of education as their own education. Therefore, we expect Turkish parents in Europe are less 'successful' in passing on their education to their children than parents in Turkey (Hypothesis 3).

Transmission across multiple generations, that is, grandparental influence, is rapidly gaining interest in stratification research (Bol and Kalmijn 2016; Chan and Boliver 2013; Erola and Moisio 2007; Hertel and Groh-Samberg 2014; Mare 2011; Modin, Erikson and Vågerö 2012; Møllegaard and Jæger 2015; Pfeffer 2014). In the international migration literature, studies of the persisting social inequalities and social origins of migrants across

multiple generations are rare. Extending the research beyond the second generation is key to understanding the impact of migration in the longer term.

Migration is likely to function as an interruption in the transmission process between grandparent and grandchild, with mechanisms similar to those of the parental transmission. Some research shows the grandparent effect is mediated by parental resources and skills; that is, after controlling for parental socioeconomic influences, there is no relationship between grandparents' and grandchildren's socioeconomic conditions (Jaeger 2012). Others argue that grandparents play a role in some conditions (Mare 2011). For example, they influence their grandchildren's socioeconomic outcomes when parents are unable to provide guidance and resources or when social stratification processes are shaped more by social origins than by redistributive state policies (Deindl and Tieben 2017). Turkish society has weaker meritocratic structures, suggesting the possibility of a stronger parental and grandparental impact on educational outcomes. In contrast, Turkish-origin Europeans are more likely to become independent of their ancestors by taking advantage of the opportunities of their affluent and relatively open destination societies. We therefore expect grandparental socioeconomic characteristics are less significant for European Turks than Turks in Turkey (Hypothesis 4).

Recent research shows parental co-residency affects the transmission of parental resources (de Leeuw, Kalmijn and van Gaalen 2018), suggesting physical proximity may shape the support parents and grandparent provide. In the context of international migration, family members may live in different countries, and this may weaken the transmission. We therefore take into account the country of residence of parents and grandparents.

To sum up, the weaker transmission of (low) education among European Turkish families will accelerate the dissimilation from social origins (parents and grandparents) and

generate more individual change for Turkish-origin people in Europe than for Turks in Turkey.

Data and Methods

Research Design

The 2000 Families dataset (Guveli et al. 2016) includes information about migrant and non-migrant families from five high-sending regions (i.e. Acıpayam, Akçaabat, Emirdağ, Kulu and Şarkışla) in Turkey. The migration history of the male ancestor (G1) defined the selection of the families, and the migrant ancestors were selected on the basis of four criteria: the ancestor 1) might be alive or dead, 2) is or would have been between 65 and 90 years old, 3) grew up in the region, and 4) moved to Europe between 1960 and 1974 and stayed in Europe for at least five years. The ancestor of the non-migrant family ('the counterfactual') was identified with the same criteria, with one exception: he had *not* moved to Europe.

To locate the migrant and non-migrant ancestors and their family members, a probability sample of 100 primary sampling units was drawn from the address register of the Turkish Statistical Institute for each region. The addresses were chosen by random walk starting from each primary sampling unit. A quota of 80 per cent migrant ancestors and 20 per cent non-migrant ancestors applied in obtaining about 400 families for each region.

Using the contact details of family members, a proxy interview per family was administrated on one well-informed family member (proxy informant) to collect factual information on the migration history and socioeconomic situation of all adult descendants of the migrant and non-migrant ancestors. Face-to-face interviews were carried out with the proxy-informants present in the regions and phone interviews with those who were not present between 2010 and 2012. The final dataset based on the proxy interviews has information about 19,477 individuals spanning three family generations nested within 1,544

families (for more detail, see Ganzeboom et al. 2016). Previous analysis of the reliability of the data from proxy interviews shows no bias introduced by proxy informants' characteristics (Bayrakdar, 2015).

Our units of analysis are the children (G2) and the grandchildren (G3) in the families. We have not included the ancestors (G1 -Grandparents) in the regression models as they had completed their education in Turkey before migration. We also distinguish migration generations in ten destination countries (Germany, the Netherlands, France, Austria, Belgium, Denmark, Sweden, Switzerland, the UK, and Norway).

We run our analysis in two parts: the first part (*pooled models*) shows the outcomes of children (G2) and grandchildren (G3). The second part (*grandparent models*) analyses the outcomes of only the grandchildren (G3). After eliminating the cases with missing data, the total sample size is 12,083 for the pooled models and 5,923 for the grandparent models.

The 2000 Families dataset facilitates our investigation of the impact of grandparents for two reasons. Firstly, it includes families from similar backgrounds, such as region of origin, thus minimizing the effect of possible unobservable factors on migrants. Secondly, it collects information on the lineages of the grandparents from the same birth cohort, thus eliminating the variance generated by the conditions affecting the joint survival of grandparents and their grandchildren (Breen 2018). The 2000 Families dataset also includes extensive information about the grandparents (G1), their parents (G0), parents (G2), and grandchildren (G3), allowing us to control for the selection of migrants and to explore interactions in place of residence for parents and grandparents.

Variables

The dependent variable is the 'highest educational level obtained'. It is an ordinal variable comprising six categories: 'primary dropout', 'primary', 'lower secondary', 'higher

secondary', 'tertiary, and 'post-tertiary'. The proxy informant reported the highest completed education level for each adult family member, using the same educational categories for all countries. These categories represent the educational levels in Turkey, but they are compatible with the European Social Survey's common educational measure. There is an extensive literature on the difficulties of comparing educational categories/levels across countries (Schneider 2008; Schroder and Ganzeboom 2013). Using the origin country's educational levels/categories to compare the level of education of migrants and their descendants to those in the origin country has been suggested as a solution to the problem of comparability (Ichou 2014).

The independent variables in the pooled models include gender, migration status, parents' education and occupational status, and family generation. The analysis in the grandparent models includes all variables in the first part except the family generation, as this model only includes the G3 family members (grandchildren). In addition, the grandparent models include education and occupational status of the grandparent, as well as the information on where parents and grandparents live. The descriptive statistics of the variables for the pooled models and the grandparent models are presented in the appendix.

In the models, women are coded as 1 and men as 0. As we are interested in the impact of different migrant generations on educational outcomes, we construct five migration statuses using the country of birth and the age of migration to Europe. These statuses are: (1) *non-migrants* including the individuals who stayed Turkey, (2) *first-generation* including those who migrated to Europe after the age of six and before completing their education, (3) *1.5 generation* comprising individuals who migrated to Europe before the age of seven, (4) *second generation* including those who were born in Europe, and (5) *returnees* comprising those who were born or lived in Europe but migrated to Turkey.

Family generations comprise two groups: the children (G2) and the grandchildren (G3) of the ancestor (G1). We measure the socioeconomic characteristics of the parents by their education level and occupational status. Parental education is measured in the same way as our dependent variable, and it comprises six categories. For parental and grandparental occupation, we use the ISEI, International Socioeconomic Index of Occupations, as it allows international comparison of occupational status (Ganzeboom and Treiman 1996). Finally, we control for age, the region of origin, sibship size and whether parents and grandparents live in Europe.

Methodology

We use OLS regression which allows to simultaneously explore the effects of multiple independent variables and makes the interpretation of the results easier.⁴ Both the pooled models and the grandparent models are nested models and enable a comparison of the coefficients and the effects across the models. We also cluster the cases at the family level, as the individuals are nested within the families. Finally, as a part of our sensitivity checks, we use the occupational status of the father of the first-generation ancestor (G1) to control for migrant selectivity, and we include destination country dummies to control for country differences. These models are presented in the online appendix.

Impact of Migration and Migrant Selectivity

As mentioned at the outset, research commonly compares the educational attainment of migrants and their descendants to the natives in destination countries. To reveal the impact or the benefits of migration, however, researchers should compare migrants' and their descendants' educational attainment to their counterfactuals in the origin countries. Yet a counterfactual research design is hard, if not impossible, to realize in migration studies

because researchers are unable to allocate migration status to random individuals (see also Pearl and Machenzie 2018). The decision to migrate might be associated with resources and aspirations, and migrants are thought to be different from their non-migrant counterparts in terms of their pre-migration socioeconomic resources and risk-taking behaviours (Borjas 1987; Ichou and Wallace, 2019). Some argue that the differences between movers and stayers could partly or fully be explained by migrant selectivity (van de Werfhorst and Heath 2019). Although researchers have sought ways to reveal migrant selectivity in different contexts (Van Tubergen et al. 2004; Dronkers and De Haus 2012), selectivity has rarely been directly tested.

The 2000 Families dataset provides retrospective pre-migration information on the socioeconomic status of family members. These unique data are the most appropriate existing measures to control for socioeconomic differences between migrants and non-migrants before the migration took place; they are also proxy variables for potential differences in risk-taking behaviour and aspirations. By using these data, we are able to minimise migrant selectivity and hence isolate the impact of migration on educational attainment.

--- Insert Table 1 ---

Table 1 shows the occupational status (ISEI) of the father (G0) of the migrant and non-migrant ancestors (G1) and the mean education and occupational status of the migrant and non-migrant ancestors (G1). The occupational status of the migrant ancestor's father (G0) is not significantly different from the occupational status of the non-migrant ancestor's father. That is, in terms of their fathers' socioeconomic conditions, the pioneer migrants were not a selective group of people. However, their own socioeconomic characteristics show a different picture. On the one hand, the level of education of the migrant ancestors (G1) is

higher than that of their counterparts who did not move to Europe, showing a positive selection of migrants. On the other hand, their occupational status shows negative selection because their pre-migration occupational status is lower than that of the non-migrant ancestors left behind. It should be noted, however, that these differences between the migrant and non-migrant ancestors are not large. Although it is farfetched to think these marginal differences account for the variances in educational outcomes in the subsequent family generations, we add these family socioeconomic backgrounds in our regression analyses to control the findings for positive and negative selection of migration.

Results

Migration Benefits and Gender Gap in Education

Figure 2 shows the educational outcomes for amalgamated categories by family generations and migration status. For migrants and non-migrants alike, education is higher among the grandchildren (G3), although the differences between the children (G2) and grandchildren (G3) are small for the second generation in Europe. G2 and G3 taken together, the highest educated groups are the 1.5 and second-generation Turks in Europe, although the first-generation grandchildren (G3) have the highest rate of tertiary education. They are followed by the first-generation migrants and returnees. In other words, Figure 2 shows that migrant generations who live or have lived in Europe obtain, on average, higher levels of education than non-migrant generations in Turkey. These descriptive findings suggest Turks in Europe benefit from the migration decision of their parents and grandparents.

--- Insert Figure 2 ---

Figure 3 shows educational outcomes by gender and migration status. The findings present women in Europe are more likely to have tertiary education than men. This

difference is largest for those born in Europe (second generation). Women in Turkey do not fare so well: non-migrant men in Turkey have substantially higher levels of education than women. These differences suggest migration generates educational benefits, but the gains are stronger for women. To probe this possibility, we investigate the gender differences in more detail in multiple regression models.

--- Insert Figure 3 ---

Table 2 shows the linear regression results for educational outcomes of the children and grandchildren (G2 and G3). Model 1 is the base model, including age, gender, sibship size, region of origin and family-generations as controls, along with migration status. Models 2 and 3 add parental characteristics and interaction terms between gender and migration status, respectively.

--- Insert Table 2 ---

Model 1 confirms our descriptive results suggesting that grandchildren (G3) obtain significantly higher levels of education than children (G2). In addition, women in general have significantly lower levels of education than men. Finally, controlling for other factors, the first, 1.5, and second-generation individuals with a Turkish background in Europe obtain significantly higher levels of education than their non-migrant comparators in Turkey. This supports Hypothesis 1.

Model 2 shows the effects of parental characteristics. Both parental education and occupational status have positive and significant effects on education, a finding in line with the bulk of research on migration and social stratification (Zuccotti et al. 2017). But the coefficients for migration status (first, 1.5, and second generation) change very little between

Model 1 and Model 2. That is, parental characteristics only slightly account for the differences between the non-migrant generations in Turkey and the migrant generations in Europe.

Model 3 includes the interaction terms between gender and migration status to observe the effects of migration status for men and women (Hypothesis 2). These coefficients show a positive additional effect for the first and second-generation women, but the interaction effect for 1.5 generation women is significant only at the 0.10 level. After including the interaction terms, the coefficients for migration status are reduced indicating that part of the migrant advantage is driven by gender. Whilst migration brings an important advantage for migrants and for their children, then, women have a double advantage. That is, women in Turkey have significantly less education than men in Turkey, but the Turkish-origin women in Europe catch up and even significantly exceed men in their educational attainment. Therefore, they become more *dissimilar*, supporting Hypothesis 2.

Transmission over Generations

Our sample in the grandparent models is the grandchildren (G3) in Europe and in Turkey and they include the occupational status and education of parents and grandparents. These models answer our third research question and test Hypotheses 3 and 4.

--- Insert Table 3 ---

Model 1 in Table 3 is the base model with migration status and grandparental characteristics, along with the control variables. The model reveals the direct and indirect effect of grandparental education and occupation. As expected, first, 1.5 and second-generation individuals have significantly higher education than their comparator non-migrant

generations in Turkey. This model also shows that the education and occupational status of grandparents have a positive and significant effect on educational attainment.

Model 2 adds parental education and occupation and reveals the extent to which the grandparental characteristics are mediated by parental education and occupation. Whilst only parental education has a significant and positive effect, the grandparental effect remains significant even after controlling for parental characteristics. Put otherwise, grandparents have a direct and also an indirect impact on their grandchildren's educational outcomes.

Model 3 demonstrates the coefficients of interaction terms specifying transmissions of parents and grandparents living in Europe. This model shows that having a parent in Europe leads to significantly higher education, but parental transmission of education is weaker for these parents. In other words, parents living in Europe are significantly less able to pass on their education than parents living in Turkey. This is in line with Hypothesis 3, stating that Turks in Europe become independent of their social origins; that is, they become *dissimilar* to their parents.

Model 3 also shows a weaker effect of grandparent's education and occupation if they are living in Europe, though this effect is not significant. The regression coefficients are small and subtracting the interaction coefficient of education of grandparents living in Europe (-0.062) from the main effect (0.082) gives a negligible coefficient of 0.020. The same applies to the impact of the occupational status of the grandparents living in Europe. Although the coefficients are in line with our expectation that the transmission of grandparents living in Europe is weaker than the transmission of grandparents living in Turkey, Hypothesis 4 is not strongly supported.

Sensitivity Checks

As part of our sensitivity checks, we rerun our final regression models from Table 2 (pooled models) and Table 3 (grandparent models). Firstly, we include the occupation status of the father (G0) of the ancestor (G1) to control for the pre-migration differences between migrants and non-migrants. Including this information does not change our conclusions and suggests that the differences found between migrant and non-migrant individuals do not stem from migrant selectivity.

Secondly, we include the country of education variable instead of migration status to see to what extent individuals in Europe differ in terms of their education across the destination countries. While the destination country coefficients naturally indicate some degree of variance across countries, all the coefficients are positive, showing that migrants benefit from migration in all destination countries. Among the destination countries in the two sets of models, only the coefficients for Austria and Switzerland in the pooled models are not significantly positive. Therefore, we conclude that our findings are robust across the destination countries in our sample.

Conclusion and Discussion

Research on international migrants' outcomes overwhelmingly focuses on comparisons between migrants and natives in the destination countries, and findings consistently show non-EU migrants and their descendants lag behind their native comparators in their life prospects. This common approach has contributed a great deal of understanding in the processes of integration into the destination societies. We argue for the need to look further – specifically at migrants' peers in the origin countries. Only then will the impact of migration be revealed, and will our understanding of migration dynamics and processes be extended beyond the borders of the nation states of the destination societies (Amelina et al. 2012; Guveli et al. 2017).

We have examined the effects of migration on the educational outcomes of Turkish women and men across three generations by comparing the children and grandchildren of Turkish labour migrants in Europe to their non-migrant counterparts in the geographic regions of origin in Turkey. We started by asking whether migration benefits migrants and their descendants in terms of education. The short answer is yes, it does. More specifically, Turks in Europe obtain better educational outcomes than those in Turkey (Hypothesis 1). In addition, women benefit more from migration than men in terms of educational attainment (Hypothesis 2). Women in Turkey have lower educational attainment than men, but Turkish-origin women in Europe have caught up to and passed men in both Turkey and Europe to become the most educated group in our sample.

Results on the multi-generation transmission of educational outcomes confirm it is significantly less likely for parents in Europe to pass on their levels of education to their children than parents in Turkey (Hypothesis 3). In other words, individuals in Europe become dissimilar to their comparators in the origin country. We also find that grandparents' resources are important for educational outcomes; even after controlling for parents' resources, there is transmission over three generations (Hypothesis 4). Arguably, grandparents are more involved in their grandchildren's care in countries with weaker social welfare structures (Deindl and Tieben 2017), leading us to explore whether the grandparental effect is stronger in Turkey. Our data demonstrate that grandparents have a significant and positive impact on their grandchildren's education, which also forms a novel contribution to the literature on multigenerational transmission (Breen 2018). However, we cannot confirm that grandparental transmission is weaker for Turks in Europe where there are relatively more social welfare facilities.

The study makes a substantial contribution to gender, international migration, and social stratification studies by comparing individuals with a migration background to their

peers in the origin country across three generations. The findings are striking: overall, Turks in Europe enjoy educational advantages, and women benefit more, a double advantage, than men, providing robust confirmation of the classic hypothesis that migration empowers women (Hondagneu-Sotelo 1992).

The dissimilation from origins perspective is a useful framework for a comparative study of the changes and continuities in migrants' and their descendants' lives. Our research substantiates the claim that migration disrupts continuity and transmission in the family (Nauck, Diefenbach and Petri 1988), arguably an advantage for families with lower socioeconomic resources. Our *dissimilation from origins* approach uniquely enables to trace changes and stabilities after migration which typical assimilation studies are unable to reveal. Comparing migrants and their descendants to non-migrants in the origin societies is important not only to show the impact of migration but also to challenge the depictions of migrants being static and missing any form of agency or resilience. Our findings show that Turkish women make effective use of the relatively more gender-equalitarian opportunities and pursue higher educational outcomes in the European societies, more so than their male counterparts in the same context.

Our research presents convincing evidence that migration benefits women more than men in terms of educational attainment, suggesting an exciting new direction for future research in order to make novel contribution to the long-lasting discussion about the emancipating power of migration on women. Other research is skeptical about the positive relationship between migration and women's independence (Abadan-Unat 1977; Hondagneu-Sotelo 1994). Some show that migration empowers women in some dimensions while it reinforces traditional gender roles in other indicators (Parrado and Flippen 2005). The 2000 Families dataset includes wealth of information and it could therefore be used to further investigate these claims, which will be our next line of research.

Endnotes

¹ We use 'Turks in Europe' to delineate those who moved or whose parent(s) or grandparent(s) moved from Turkey and are living in European destination countries. We are not referring to ethnicity or citizenship.

² High school enrolment rates show very similar trends.

³ The studies comparing social mobility levels across countries show differences in their methods and measurements as well as their conclusions. That said, almost all studies show that Western European countries show high levels of social mobility with Scandinavian countries and the Netherlands being in the lead and France and Germany being rather close to the mid-levels of the rankings. For an extensive review of the conclusions as well as cross-country differences see Breen and Jonsson's (2005) review of research on educational attainment and social mobility.

⁴ Ordinal logistic regression models yield similar results.

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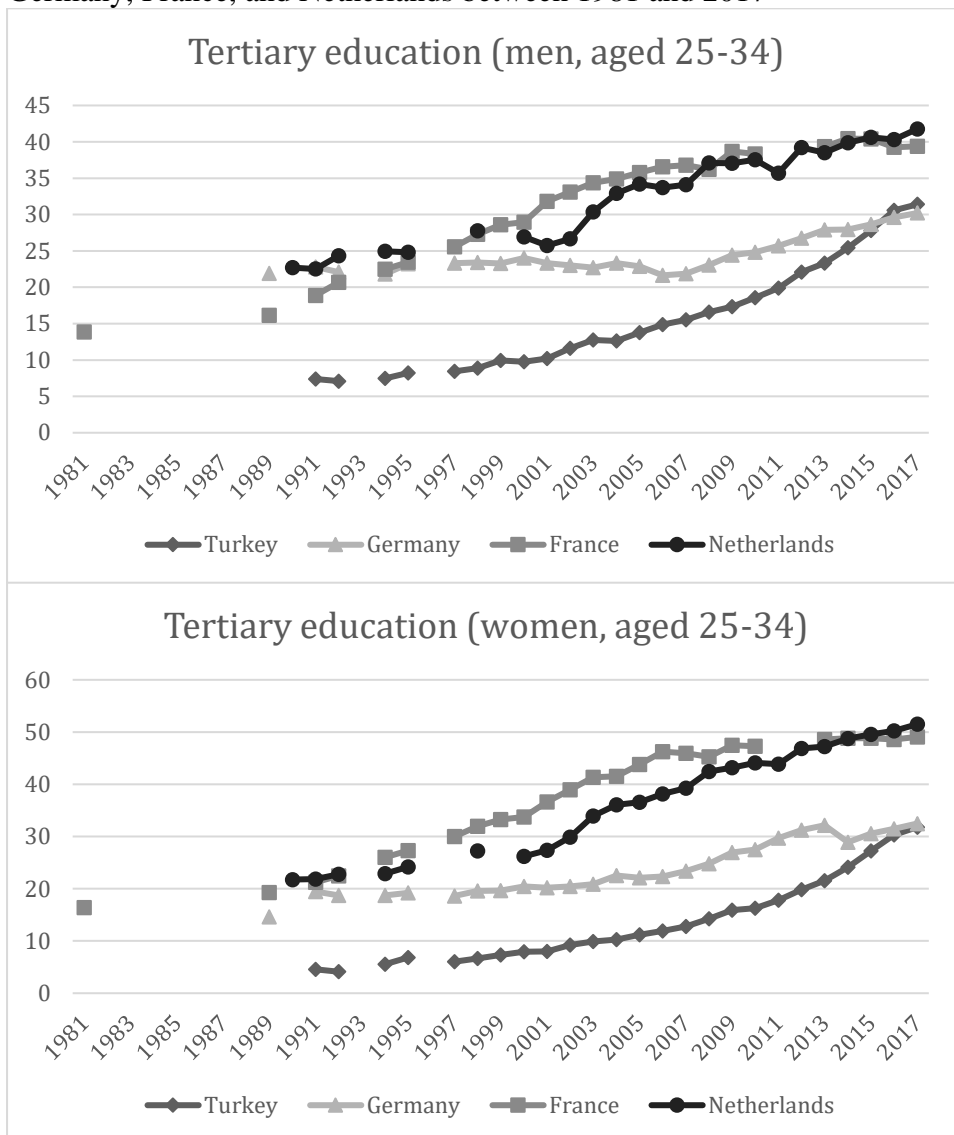
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Figures and Tables

Figure 1: Share of population with tertiary education in Turkey, Germany, France, and Netherlands between 1981 and 2017



Source: OECD, 2019 - Population with tertiary education is defined as those having completed the highest level of education, by age group.

Figure 2: Share of highest obtained education by family generations and migration status

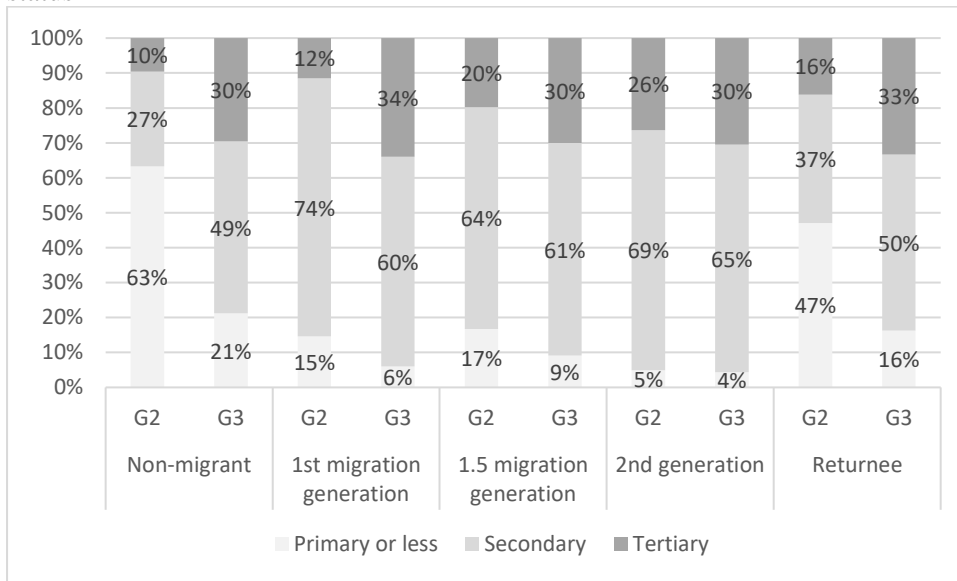


Figure 3: Share of highest obtained education by migration status and gender

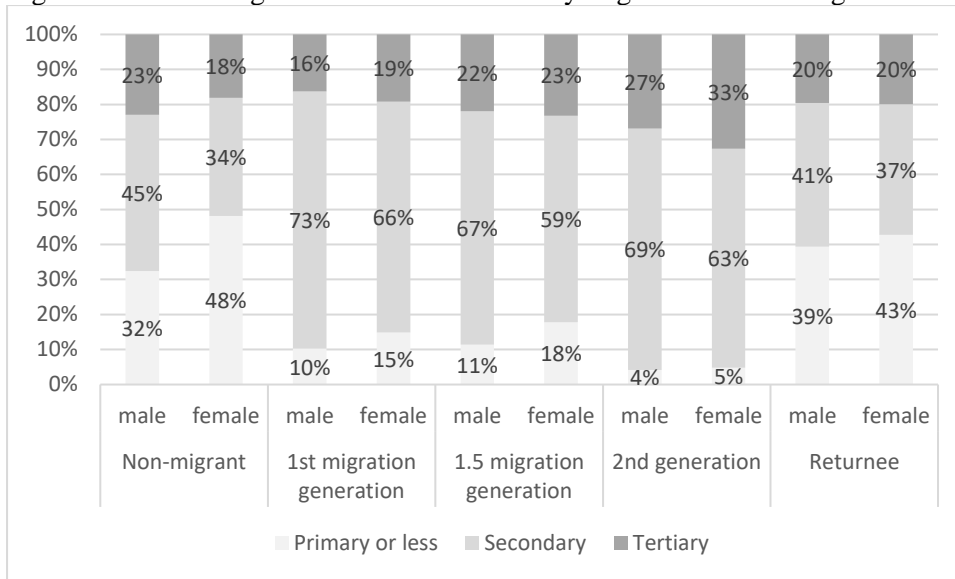


Table 1: G1 and G0 occupation and education by G1 migration status

	Gen 0		Gen 1
	Occupation	Education	First occupation
Gen 1 Non-migrant	25.12	3.46	26.55
Gen 1 Migrant	24.29	3.61	25.1
t-value	1.93	-2.19	2.78
# of cases	1403	1522	14.99

Table 2: Pooled Models – OLS Regression for Educational Outcomes

	model 1		model 2		model 3	
	b	se	b	se	b	se
Age	-0.033***	0.002	-0.029***	0.002	-0.029***	0.002
Female	-0.205***	0.026	-0.211***	0.025	-0.361***	0.033
Sibship size	-0.049***	0.008	-0.038***	0.008	-0.039***	0.008
Region (ref: Acipayam)						
Sarkisla	-0.046	0.102	-0.052	0.097	-0.062	0.098
Akcaabat	-0.162*	0.07	-0.068	0.063	-0.068	0.063
Emirdag	-0.242**	0.076	-0.202**	0.067	-0.209**	0.067
Kulu	-0.372***	0.074	-0.283***	0.066	-0.285***	0.066
Family generation (ref: G2)						
G3	0.363***	0.067	0.148*	0.067	0.141*	0.066
Migrant status (ref: Non-migrant)						
1st generation	0.698***	0.062	0.683***	0.06	0.524***	0.071
1.5 generation	0.723***	0.078	0.718***	0.074	0.608***	0.091
2nd generation	0.516***	0.056	0.447***	0.052	0.211***	0.056
Return migrant	0.266***	0.067	0.251***	0.064	0.192*	0.077
Parental						
education			0.222***	0.017	0.223***	0.017
Parental occupation			0.006***	0.001	0.006***	0.001
Female*1st generation						
					0.343***	0.085
Female*1.5 generation						
					0.223+	0.116
Female*2nd generation						
					0.494***	0.056
Female*returnee						
					0.107	0.111
<hr/>						
Constant	4.756***	0.123	3.563***	0.138	3.635***	0.139
<hr/>						
r2	0.209		0.242		0.248	
N	12083		12083		12083	

* p<.05, **p<.01, *** p<.001

Source: 2000 Families, Proxy dataset, 2016

Table 3: Grandparent Models - OLS Regression for educational outcomes

	Model 1		Model 2		Model 3	
	b	se	b	se	b	se
Age	-0.029***	0.005	-0.025***	0.005	-0.026***	0.005
Female	-0.046	0.037	-0.054	0.037	-0.057	0.036
Sibship size	-0.098***	0.017	-0.076***	0.017	-0.076***	0.016
Region (ref: Acipayam)						
Sarkisla	-0.247	0.504	-0.506	0.489	-0.447	0.434
Akcaabat	0.047	0.091	0.108	0.086	0.129	0.085
Emirdag	-0.369***	0.101	-0.389***	0.094	-0.357***	0.098
Kulu	-0.288**	0.097	-0.213*	0.089	-0.205*	0.09
Migrant status (ref: Non-migrant)						
1st generation	0.495***	0.134	0.479***	0.128	0.550***	0.15
1.5 generation	0.490**	0.172	0.491**	0.159	0.571**	0.194
2nd generation	0.411***	0.069	0.327***	0.066	0.460***	0.131
Return migrant	0.271	0.143	0.290*	0.143	0.344*	0.146
Grandparental education	0.102**	0.031	0.068*	0.029	0.082*	0.034
Grandparental occupation	0.011***	0.003	0.009**	0.003	0.010**	0.003
Parental education			0.281***	0.025	0.350***	0.031
Parental occupation			0.002	0.002	0.002	0.002
Parent in EU					0.865***	0.234
Parent in EU*Parental education					-0.183***	0.049
Parent in EU*Parental occupation					-0.005	0.003
Grandparent in EU					0.364	0.249
Grandparent in EU*Grandparental education					-0.062	0.055
Grandparent in EU*Grandparental occupation					-0.006	0.007
Constant	4.397***	0.21	2.975***	0.217	2.616***	0.245

* p<.05, **p<.01, *** p<.001

Source: 2000 Families, Proxy dataset, 2016

Appendix A: Descriptive statistics of the variables in the analysis

Gen 2 & 3 models			Gen 3 models		
		%			%
Highest level of education	Primary drop-out	1.06	Highest level of education	Primary drop-out	0.25
	Primary	28.15		Primary	14.99
	Lower Secondary	15.84		Lower Secondary	15.34
	Higher Secondary	32.51		Higher Secondary	39.57
	Low Tertiary	5.78		Low Tertiary	7.15
	High Tertiary	16.67		High Tertiary	22.71
Sex	Male	51.44	Sex	Male	52.19
	Female	48.56		Female	47.81
Region	Sarkisla	4.84	Region	Sarkisla	0.74
	Acipayam	20.72		Acipayam	20.82
	Akcaabat	28.71		Akcaabat	32.25
	Emirdag	20.24		Emirdag	17.5
	Kulu	25.5		Kulu	28.69
Migrant status	Non-migrant	61.38	Migrant status	Non-migrant	62.2
	1st gen	6.65		1st gen	3.07
	1.5 gen	4.25		1.5 gen	1.84
	2nd gen	22.76		2nd gen	31.12
	returnee	4.95		returnee	1.77
Parental education	Primary drop-out	2.9	Parental education	Primary drop-out	3.37
	Primary	53.98		Primary	61.8
	Lower Secondary	16.47		Lower Secondary	16.03
	Higher Secondary	18.32		Higher Secondary	13.96
	Low Tertiary	2.43		Low Tertiary	1.48
	High Tertiary	5.89		High Tertiary	3.35

Lineage Generation	Second	44.39	GParenal education			Illiterate	9.61		
	Third	55.61				Literate	16.54		
						Primary drop-out	5.26		
						Primary	66.6		
						Lower Secondary	1.5		
						Higher Secondary	0.27		
						Low Tertiary	0.05		
						High Tertiary	0.17		
			Parent living in EU			No	64.45		
						Yes	35.55		
			Grandparent living in EU			No	80.95		
						Yes	19.05		
TOTAL		12,083	TOTAL				5,923		
	Mean	SD	Min/Max		Mean	SD	Min/Max		
Age	33.69	11.06	18/75	Age	26.06	5.53	18/59		
Sibship size	2.59	1.69	1/ 1 2	Sibship size	1.99	1.14	1 / 9.		
Parental occupation (ISEI)	23.68	15.46	0/88	Parental occupation (ISEI)	20.88	18.5	0/88		
				GParenal occupation (ISEI)	26.28	8.8	0/77		
Parental occupation (excluding 0's)	29.25	11.51	16/88	Parental occupation (excluding 0's)	31.81	13.18	16/88		
				GParenal occupation (excluding 0's)	26.35	8.72	16/77		

Source: 2000 Families, 2016

Online Appendix:

Table A: Pooled model – sensitivity checks

	Model 1		Model 2		Model 3	
	Full model from Table 2		Model with Gen0 occupation		Model with destination countries	
	b	se	b	se	b	se
G0 isei			0.012***	0.003		
Female parent	0.239***	0.051	0.208***	0.053	0.242***	0.051
Age	-0.029***	0.002	-0.028***	0.002	-0.028***	0.002
Female	-0.361***	0.033	-0.375***	0.035	-0.366***	0.032
Sibling no	-0.039***	0.008	-0.033***	0.008	-0.038***	0.008
Region (ref: Acipayam)						
Sarkisla	-0.062	0.098	-0.1	0.105	-0.048	0.097
Akcaabat	-0.068	0.063	-0.083	0.064	-0.067	0.064
Emirdag	-0.209**	0.067	-0.222**	0.068	-0.185*	0.077
Kulu	-0.285***	0.066	-0.293***	0.066	-0.315***	0.07
Family generation (ref: G2)						
G3	0.141*	0.066	0.152*	0.071	0.11	0.065
Migrant status (ref: non-migrant)						
1st generation	0.524***	0.071	0.509***	0.073		
1.5 generation	0.608***	0.091	0.599***	0.095		
2nd generation	0.211***	0.056	0.234***	0.058		
return migrant	0.192*	0.077	0.196*	0.081		
Destination country (ref: non-migrant in Turkey)						
Germany					0.314***	0.062
Netherlands					0.537***	0.097
France					0.365***	0.109
Austria					0.157	0.129
Belgium					0.199*	0.089
Denmark					0.235*	0.115
Sweden					0.676***	0.11
Switzerland					0.319	0.209
UK					1.589***	0.431
Norway					0.656***	0.137
missing					0.208	0.223
Parental education	0.223***	0.017	0.232***	0.017	0.220***	0.017
Parental occupation	0.006***	0.001	0.005***	0.002	0.005***	0.001

Female*1st generation	0.343***	0.085	0.373***	0.088	0.515***	0.073
Female*1.5 generation	0.223	0.116	0.273*	0.123	0.518***	0.093
Female*2nd generation	0.494***	0.056	0.508***	0.059	0.381***	0.053
Female*returnee	0.107	0.111	0.124	0.115	0.207*	0.093
Constant	3.635***	0.139	3.274***	0.156	3.653***	0.138
r2	0.248		0.251		0.25	
N	12083		10928		12083	

* p<.05, **p<.01, *** p<.001

Source: 2000 Families, Proxy dataset, 2016

Table B: Grandparent model – sensitivity checks

	Model 1		Model 2		Model 3	
	full model from Table 3		Model with Gen0 occupation		Model with destination countries	
	b	se	b	se	b	se
G0 isei			0.016***	0.003		
Female parent	0.177**	0.054	0.169**	0.055	0.188***	0.055
Age	-0.026***	0.005	-0.025***	0.005	-0.026***	0.004
Female	-0.057	0.036	-0.062	0.038	-0.058	0.036
Sibship size	-0.076***	0.016	-0.069***	0.017	-0.073***	0.016
Region (ref: Acipayam)						
Sarkisla	-0.447	0.434	-0.455	0.426	-0.39	0.387
Akcaabat	0.129	0.085	0.109	0.085	0.136	0.086
Emirdag	-0.357***	0.098	-0.357***	0.098	-0.306**	0.107
Kulu	-0.205*	0.09	-0.204*	0.088	-0.249**	0.095
Migrant status (ref: non-migrant)						
1st generation	0.550***	0.15	0.521***	0.15		
1.5 generation	0.571**	0.194	0.560**	0.204		
2nd generation	0.460***	0.131	0.457***	0.135		
return migrant	0.344*	0.146	0.402**	0.147		
Destination country (ref: non-migrant)						
Germany					0.433***	0.125
Netherlands					0.854***	0.137
France					0.484**	0.167
Austria					0.344*	0.173
Belgium					0.350*	0.155
Denmark					0.387*	0.187
Sweden					0.925***	0.183
Switzerland					0.843**	0.277
UK					0.906***	0.095
Norway					0.969***	0.195
missing					0.187	0.248
Grandparental education	0.082*	0.034	0.095**	0.036	0.075*	0.034
Grandparental occupation	0.010**	0.003	0.009*	0.004	0.010**	0.003
Parental education	0.350***	0.031	0.350***	0.032	0.351***	0.031
Parental occupation	0.002	0.002	0.002	0.002	0.002	0.002
Parent in EU	0.865***	0.234	0.889***	0.239	0.858***	0.232
Parent in EU*Parental education	-0.183***	0.049	-0.171***	0.051	-0.184***	0.049
Parent in EU*Parental occupation	-0.005	0.003	-0.007*	0.003	-0.006	0.003

Grandparent in EU	0.364	0.249	0.433	0.251	0.265	0.256
Grandparent in EU*Grandparental education	-0.062	0.055	-0.089	0.056	-0.045	0.055
Grandparent in EU*Grandparental occupation	-0.006	0.007	-0.005	0.007	-0.005	0.007
Constant	2.616***	0.245	2.177***	0.257	2.651***	0.241
r2	0.131		0.14		0.14	
N	5932		5429		5932	

* p<.05, **p<.01, *** p<.001

Source: 2000 Families, Proxy dataset, 2016