Dissatisfied, feeling unequal and inclined to emigrate: Perceptions from Macedonia in a MIMIC model | BLAGICA PETRESKI

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Abstract

Macedonia has a large diaspora, a high emigration rate and receives larger volume of remittances. This paper aims to describe the current inclination to emigrate from Macedonia, in the light of the dissatisfaction with the domestic political and economic environment and the potential feeling of gender and ethnic inequalities. Particular reference is made to the role of remittances. We use the Remittances Survey 2008 and treat dissatisfaction, feeling of inequality and inclination to emigrate as latent continuous variables in a MIMIC (Multiple-Indicator Multiple-Cause) model, observed only imperfectly in terms of respondents' perceptions and opinions. Results suggest that dissatisfaction with the societal conditions in Macedonia grows among those who are at their 20s and early 30s, which is more prevalent among ethnic Albanians. Compared to others, Albanians also demonstrate stronger feeling of gender and ethnic inequality. Dissatisfaction, but not the feeling of inequality, then feeds inclination to emigrate. Further to this, however, males and less educated persons are more inclined to emigrate, irrespective of their level of dissatisfaction. We find remittances to play a strong role for the inclination to emigrate: the inclination is larger in households receiving remittances and increases with the amount received, as it is likely that remittances alleviate financial constraints for other persons of the household to emigrate.

Keywords: dissatisfaction; inequality; migration; remittances; MIMIC.

Introduction

Macedonia has a long history of emigration dating back even to the nineteenth century, when a considerable number of people left the country's territory in its present borders for Western European and overseas destinations (CRPM, 2007). At the turn of the 20th century, emigration was prompted by political conflicts under the Ottoman Empire, the Balkan Wars, the First and Second World Wars and the Greek Civil War (Dietz, 2010; IMF, 2014). New challenges emerged for the country after the dissolution of Yugoslavia in 1991: the long and thorny process of transition started, coupled with the loss of traditional

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markets, heavy de-industrialization and hyperinflation. These economic trends were flavoured with unstable political processes: the withdrawal of the Yugoslav army from the Macedonian territory, the battle for international recognition and the emerging dispute with Greece around the name of the country, all aggravated by the ethnic tensions between the two largest ethnic groups: Macedonians and Albanians. These later culminated with an internal military conflict (2001) resulting in recognition of the ethnic Albanians as a constitutional ethnic group. Last but not least, external shocks like the Greek embargo (1993), the war in Bosnia (1995), the Kosovo refugee crisis (1999) and the Great Economic Crisis (2008) made the economy vulnerable and exacerbated the achievement of the domestic development objectives.

These processes fuelled dissatisfaction with the economy, politics, society and, overall, with life in Macedonia, with how government is run, possibly with how inter-ethnic issues are handled, and likely sparked new wave of emigration, which remained steady over the next two decades. The official estimates, based on official records of the Ministry of Interior (MoI) suggest that the official number of Macedonians living abroad was about 140,000 at the end of 2013 (United Nations, 2013). However, in an absence of official census in the last 13 years, these data are largely imprecise for various reasons. It is commonly estimated that up to 550,000 Macedonians have become established abroad, bringing the emigration share to above 25% (Bornarova & Janeska, 2012), out of which only in the last two decades 200,000 have emigrated for better life. Limited statistics on the ethnic divide (Bornarova & Janeska, 2012, p.45) suggest that the share of ethnic Albanians in the total diaspora of Macedonia may have increased over time.

In an absence of official figures, it is argued that the most recent wave of emigration in Macedonia is happening now, i.e. after the fall of the Schengen visa 'curtain' in 2009, with a growing rate of at least 0.5% of population net emigrating per year. Destinations for Macedonians remain the Western European countries, Scandinavia, US, Canada and Australia. Not only do these countries have far higher living standards than Macedonia, but also people have maintained, over the decades, links with the earlier waves of the diaspora who are based in those countries. Still, it is argued that more recent migration involves not small portion of purely new emigrants, predominantly young persons who leave for job or leave for studies aboard but then find a job and do not return. This also suggests that, while former migration mainly included unskilled workers, the main concern related to the latter migration is the 'brain drain', i.e. the emigration of (highly) skilled labour, possibly rendering the achievement of the domestic development objectives more difficult.

¹ One reason is the fact that the MoI does not conduct and possess a precise statistics of who has been absent from the country for more than three months. Also, part of the diaspora is composed of people who still declare themselves Yugoslavs, or simply citizens of the host country.

Commensurate to the size of the diaspora, remittances – the money sent back to households left behind – remain large and persistent. Macedonia stands out for the amount of private transfers: it ranges between 13% and 21% of GDP in the last decade (IMF, 2014). However, the amount of workers' remittances has been estimated to be between 4% and 10% of GDP (Petreski and Jovanovic, eds. 2013), still representing a major source of financing of the large and persistent trade deficit, as well as of alleviating development constraints: reduction of poverty and inequality (Petreski and Jovanovic, 2014) and steering the self-employment of young household members (Petreski et al. 2014).

The large emigration share of Macedonians living abroad of 25% of total population, the flagrant net emigration rate per year of 0.5%, and the large and persistent size of the remittances received of between 4% and 10% of GDP per year, make the issue of emigration of central interest of the societal debate in Macedonia.

The objective of our study is to portray the current inclination to emigrate from Macedonia, in the light of the dissatisfaction with the domestic political and economic environment and the potential feeling of gender and ethnic inequalities. We make a special reference to remittances to profile migration inclination in Macedonia. Distinctly from the previous studies, we treat dissatisfaction, feeling of inequality and inclination to emigrate as latent continuous variables in a MIMIC model, observed only imperfectly in terms of respondents' perceptions and opinions.

The literature on migration is vast and diverse. A strand of it, e.g. Stinner and Van Loon (1992), De Jong, et al. (1996), Chang, (1999), and De Jong (2000), deals with the issue of how the economic and political contexts of both origin and destination country may affect the inclination or decision to emigrate, and our paper falls into this area of the literature. In addition, the notion of the paper resonates with Sirkeci's (2009) conceptualization of migration as a function of conflict. For studies dealing with the origin country, as our study, "individuals and social groups that perceive their existing personal and collective opportunities as being circumscribed by a hostile political system or an unfavourable structure of economic and social opportunities may develop and articulate stronger inclinations to migrate" (Agadianian et al. 2008, p.626). Other strands of literature correlate the inclination to emigrate with issues like gender (e.g. (De Jong et al. 1996; De Jong, 2000; Kanaiaupuni, 2000; Curran and Saguy, 2001; Laruelle, 2006; Donato et al. 2014), marriage (e.g. Jacobsen and Levin, 2000; Yang, 2000; Charsley et al. 2012), ethnicity (Agadjanian et al. 2008), education and skills (Dzvimbo, 2003; Bailey, 2003) and others. On the other hand, while the role of remittances for economic development has been widely documented (see Petreski & Jovanovic, 2013), their potential correlation with the migration incentive of the receiving household members has been rarely discussed in the literature. Only in the context of financial constraints' relief, is it suggested that remittances not only reduce poverty of the receiving

household, but may also bridge the costs for sending additional migrant (Petreski & Jovanovic, 2015). Applied to our objective, such literature positioning may imply that all these factors may have a greater or lesser mediating role on the intentions to emigrate.

The paper is structured as follows: Section 2 explains the economic model in detail and provides some stylized facts. Section 3 describes the method and data used. Section 4 presents the results and offers a discussion, then section 5 concludes and offers policy recommendations.

Model and stylized facts

Our analysis centres on factors that shape dissatisfaction with the domestic political and economic surrounding, feeling (gender and ethnically) unequal, and the intention to emigrate, and how these depend on demographic and migration-related characteristics. In particular, the generic form of the model we would like to study is as follows:

$$Dis_home_i = \alpha_1 + \beta_1 \sum Demogr_i + \gamma_1 \sum Migration_i + \varepsilon_{1i}$$
 (1)

$$Feel_uneq_i = \alpha_2 + \beta_2 \sum Demogr_i + \gamma_2 \sum Migration_i + \varepsilon_{2i}$$
 (2)

Whereby: Dis_home_i and $Feel_uneq_i$ stand for if person is satisfied with societal surrounding at home or not and if he/she feels gender and ethnically equal or not, respectively; $Demogr_i$ is a bunch of demographic characteristics and $Migration_i$ is a variable representing facets of migration, and ε_{1i} and ε_{2i} are the errors which are assumed to be well-behaved.

Two variables could be used as proxies for the dissatisfaction with the domestic environment for living: i) the opinion that the country is a good place to live; and ii) the opinion that the country is satisfactorily run by the government. As both are measured on a scale of 1 to 5 where 1 represents strong agreement and 5 strong disagreement, their increase signifies growing dissatisfaction with life in the country. Two variables could be used as proxies for the extent to which person *i* is feeing unequal in terms of: i) the opinion that both genders have equal treatment in the country; and ii) the opinion that different ethnicities have equal treatment in the country. As both are measured in a similar fashion as with the dissatisfaction case, their increase signifies growing feeling of inequality. Given this discussion, our dependent variable cannot be captured by a single indicator, on top of the fact that it reflects personal perceptions which are rather continuous and not categorical variables. We turn back to this in Section 3.

The demographic variables we include involve three levels: individual, household and community. These are frequently used in the migration literature (see Petreski & Jovanovic, 2013). Individual characteristics include gender, age and its square, ethnicity, education, marital status and employment status. Household characteristics include the number of members in the household and the share of dependent members. Community characteristics include an

indicator of whether the household lives in urban or rural area, and the logarithm of the regional GDP to measure regional differences in wealth and employment opportunities. Migration is represented with a binary indicator of whether the household has an absent migrant who is a close family member. This variable is further split into migrants who send money and those who do not, in order to separately assess whether the networking effect or the potential to earn (more than at home) is the driver of the inclination to emigrate. Finally, the amount of remittances received is also used as migration-related variable.

By estimating (1) and (2) we will be able to understand if dissatisfaction with the political and economic surrounding and feeling of inequality differ by factors like age, gender, schooling, having a migrant and the like.

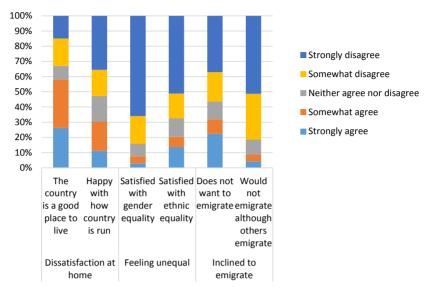
Finally, to find out to what extent dissatisfaction with life and feeling of inequality in Macedonia stir migration, we will add the predictions of (1) and (2) in the following equation:

$$\begin{aligned} &Incl_emigr_i = \alpha_3 + \beta_3 \sum Demogr_i + \gamma_3 \sum Migration_i + \theta_1 Dis_home_i + \theta_2 Feel_uneq_i + \varepsilon_i \end{aligned} \tag{3}$$

where $Incl_emigr_i$ is the inclination to emigrate, for which two proxies are used: i) the willingness to leave the country, if opportunity arises; and ii) the opinion that people get inspired to migrate after seeing others migrating. Similarly as before, these two are measured on a scale from 1 to 5, whereby an increase signifies growing inclination to emigrate. The other variables are as in (1) and (2). Dis_home_i and $Feel_uneq_i$ refer to the predictions of equations (1) and (2), respectively. The basic idea behind the addition of the two predictions in (3) is that dissatisfaction with the domestic political and economic environment, and with the feeling of (gender and ethnic) inequality may be the main fuelling factors for the inclination to emigrate. By so doing, we will disentangle the part of the emigration which is due to the dissatisfaction with the societal surrounding at home and/or with the exposure to gender and ethnic inequalities, from the part that may be related to other reasons.

Figure 1 gives a summary of the intended dependent variables. While no definitive pattern could be obtained, some preliminary thoughts may emerge. People are more prone to be satisfied with the country as a place to live, but tend to be more dissatisfied with how the country is run. Then, there is obvious feeling of both gender and ethnic inequality, the former being slightly more pronounced. Finally, inclination to emigrate is also prevalent, especially channelled not through the chances to emigrate but rather via the fact that others have migrated.

Figure 1. Dissatisfaction at home, feeling of inequality and inclination to migrate – summary



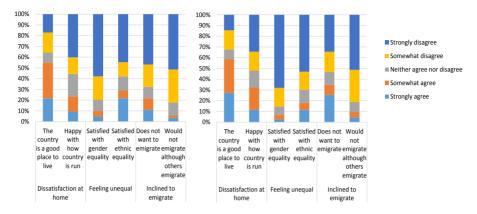
Source: Remittances Survey; Authors' calculations.

Figures 2 and 3 replicate Figure 1 by observing the age and ethnicity division. We chose these two divides in order to give flavor to the two important tendencies in the Macedonian society depicted in Section 1: the prevalence of emigration and the wish to emigrate among younger generations²; and the feeling of inequality of ethnic Albanians. Figure 2 provides interesting insights: it suggests that younger persons may be more dissatisfied only in terms of how the government is run, while the feeling with regard to inequality is more prevalent among older generations. The inclination to emigrate is clearly more pronounced among youth.

Figure 3 considers the ethnic divide and provides different picture. Albanians are expectedly less satisfied with the overall surrounding. However, their feeling of gender and ethnic inequality is strongly pronounced than compared to those of Macedonians. As argued in Section 1, this is in line with the still widespread perception that the Albanian community is very patriarchalminded, at least more than that of Macedonians, while the feeling of ethnic inequality is still present and largely draws its legacy from the Yugoslav and transition times when the Albanians were treated as minority with very limited constitutional rights against the post-2001 era when rights were given to them with the Ohrid Framework Agreement. Finally, inclination to migrate is slightly more pronounced among ethnic Albanians too.

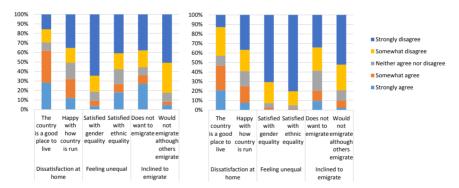
² For the age divide, we use an arbitrary cut-off point of 30 years of age, but the picture is largely replicated with any cut-off point around 30.

Figure 2. Dissatisfaction at home, feeling of inequality and inclination to migrate – by age: young (left) and non-young (right)



Source: Remittances Survey; Authors' calculations.

Figure 3. Dissatisfaction at home, feeling of inequality and inclination to migrate – by ethnicity: Macedonians (left) and Albanians (right)



Source: Remittances Survey; Authors' calculations.

Methods and data

As revealed in the previous section, the main econometric challenge in estimating equations (1) – (3) lies in the following two facts: i) the dependent variables cannot be captured by a single indicator; ii) the dependent variables are perceptions which are continuous latent variables rather than observed categorical variables as are the available indicators which we operate with. To address this econometric challenge, we conduct a non-structural exercise, using a MIMIC (Multiple-Indicator Multiple-Cause) model. Our MIMIC specification explicitly acknowledges that the dissatisfaction with the economic and political environment, feeling of inequality and the inclination to emigrate

are continuous rather than a discrete phenomenon, and ones that can only be observed with error. The proposed model treats the three phenomena as latent variables, observed only imperfectly in terms of people's perceptions and opinions for how the country is run, willingness to continue living in the country, willingness to migrate when seeing other migrating, thinking that gender and ethnic equality is insufficient, and the like. The MIMIC methodology simultaneously links these 'indicators' with the potential 'causes'.

The MIMIC model was introduced to the econometrics by Goldberger (1972). Aigner et al. (1984) provide a general introduction to latent-variable model, while Gertler (1988) provides intuitive and empirical application. Briefly, the model consists of two sets of equations:

$$y_{i,j} = \beta_i \xi_i + \nu_i \tag{4}$$

$$\xi_i = \gamma_k x_{ik} + \zeta_i \tag{5}$$

where $y_{i,j}$ is an observation on indicators for dissatisfaction with societal environment, feeling of inequality and inclination to emigrate, respectively; $x_{i,k}$ is an observation for cause k for household head i; ξ_i is a latent variable representing the extent of dissatisfaction, feeling of inequality and inclination to emigrate, respectively, for household head i; β_j and γ_k are vectors of coefficients, and ν_i and ς_i are well-behaved disturbances. Equation (4) links J consequences and manifestations of dissatisfaction, feeling of inequality and inclination to emigrate to the unobservable measure of each of them. The second 'structural' equation models the 'determination' of dissatisfaction, feeling of inequality and inclination to emigrate as a function of K causes.

By substituting (5) into (4), we can derive a model which is no longer a function of the latent variable ξ_i . This MIMIC model is a system of J equations with right-hand-sides restricted to be proportional to each other. These proportionality restrictions constrain the structure to be a 'one-factor' model of the latent variable; with the addition of a normalization, they achieve identification of the parameters in (4) and (5). One of the features of the MIMIC model is that it explicitly incorporates measurement error about key variables – the dissatisfaction with the economic and political surrounding, feeling of inequality and inclination to emigrate – in a non-trivial and plausible way.

Our data come from the Remittances Survey conducted in late 2008, the year before the visa liberalization process which happened late 2009 (EduCon Research, 2009). While this may be a constraint in capturing the latest wave of emigration, it is very suitable for analysis from another point of view: it reflects the accumulated potential dissatisfaction with the political and economic environment in the country portrayed through the two-decade long transition,

which then clearly articulated any inclination to emigrate in an anticipation of the visa liberalization process.³

The dataset is composed of a representative sample of 1,211 households. It covers a variety of issues related to the absent migrant, returned migrant, remittances, socio-demographic characteristics of the household left behind as well subjective opinions of various aspects related to migration and the socio-economic environment. The sample has been selected in two stages: first each planning region, out of eight such regions in Macedonia, has been divided on urban and rural; then, a random sample was obtained from each stratum proportional to its share in the particular region. The contribution of each region in the total sample has also been proportional to its share in the entire country. We use this information to set the survey and obtain weights which we use throughout the entire analysis.

Results and discussion

Using the MIMIC model, we estimate our latent variables – dissatisfaction with the societal surrounding, feeling of inequality and inclination to emigrate – each from two underlying indicators and simultaneously link them to a number of demographic and migration indicators. Table 1 gives the estimates of our 'structural' – in the jargon of the MIMIC model – equations (1) – (3), in columns (1) – (3), respectively.⁴

Results suggest that only age and ethnicity, as well the regional wealth disparities affect the dissatisfaction of households with the political and economic environment in Macedonia. Dissatisfaction grows with age, but only until about 36 years. While there is no study documenting this yet, it is a common perception that youth are usually more dissatisfied with life and how country is run (also observed on Figure 2), and subsequently discuss that they will use any chance to emigrate for better life. On the other hand, as older generations borne the ballasts of the transition times, their dissatisfaction likely faded over time. Albanians are found to be more dissatisfied with life in Macedonia (Figure 3). This is also quite expected, given that for a long period of time they considered themselves second-class citizens; only after the Ohrid Framework Agreement of 2001 did they get increased chances to get equal opportunity for public employment or to be represented equally in different bodies. Still, their participation in overall societal life may be still unwarranted, which is reflected in their dissatisfaction. However, dissatisfaction is not different between genders, nor between labour-market and skills' strata. Interestingly, the fact that a household has a close-family migrant is not found to affect the dissatisfaction with the societal surrounding. So, it appears to be a

³ Note that the survey has been conducted only once. Another survey exists in Macedonia on the issues related to remittances, but it is very weak on the issues related to migration except remittances.

⁴ Due to space, we do not present the estimates of the 'measurement' equations, and these are available on request.

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widespread misperception that people are frustrated with life in Macedonia when they see their close-family emigrants living in more favourable contexts.

Table 1. Baseline results

Table 1. Dasenne results	Dissatisfaction	Feeling	Inclination to
	with life	unequal	emigrate
	(1)	(2)	(3)
Gender of head (1=male)	-0.109	-0.0033	0.161*
Gender of ficad (1-finale)	(-0.0864)	(-0.0435)	(-0.0894)
Age of head (in years)	0.0467***	0.0132*	-0.00551
Age of ficati (iii years)	(-0.0166	(-0.00684)	(-0.0181)
Age squared	-0.000651***	-0.000082	-0.00017
Age squared	(-0.00031	(-0.00007)	(-0.00017
Ethnicity (1=Albanian)	0.238**	0.439***	0.267**
Ethnicity (1–Albanian)		(-0.139)	(-0.120)
D.:	(-0.108)	· /	0.308**
Primary school or less	-0.065	-0.0702	
C	(-0.125)	(-0.0577)	(-0.130)
Secondary school	0.0931	-0.0233	0.0409
36 11 1	(-0.111)	(-0.0317)	(-0.103)
Marital status of head (1=married)	0.0533	-0.0129	0.0276
	(-0.107)	(-0.041)	(-0.112)
Employment status of head (1=employed)	0.0573	-0.028	-0.14
	(-0.100)	(-0.0338)	(-0.102)
Number of household members	-0.0224	0.0187	0.0342
	(-0.0485)	(-0.0144)	(-0.0343)
Share of dependent household members	-0.285	0.0136	0.257
	(-0.360)	(-0.0712)	(-0.216)
Geography (1=urban)	0.0901	-0.0304	0.0168
- • • •	(-0.110)	(-0.0361)	(-0.105)
Log of regional GDP	-0.214*	0.085	1.056***
	(-0.130)	(-0.0799)	(-0.150)
Migration (1=household has absent migrant)	0.0814	-0.0173	0.229**
,	(-0.120)	(-0.0319)	(-0.0961)
Prediction: Dissatisfaction with life	,		0.677***
			(-0.0478)
Prediction: Feeling unequal			0.111
5 1			(-0.123)
N:	1,087	1,094	1,094
0 4 1 1 1 1 1	*		*

Source: Authors' calculations.

Notes: *, ** and *** denote statistical significance at the 10%, 5% and 1% level, respectively. Standard errors are given in parentheses.

When it comes to the feeling of gender and ethnic inequality, we find only age and ethnicity to be significant. Older people more frequently think that gender and ethnic discrimination is an issue in the society, while Albanians manifest more pronounced dissatisfaction with equality, and it is likely that it is not only driven with how ethnic equalities are dealt with in the society, but also with the lingering gender inequalities (Figure 3).

We use predictions for the dissatisfaction with life and the feeling of inequality as regressors in column (3) and give the estimated coefficients toward the bottom of the table. Results suggest that indeed rising dissatisfaction translates into larger inclination to emigrate, with a relationship which is close to one-to-one. This may give a quantitative support to the common expression of dissatisfied persons with "I have no other option but to leave the country", i.e. likely suggests that dissatisfaction is mainly exhausted through ideas to emigrate and is in line with the conflict model of migration (Sirkeci, 2009; Cohen & Sirkeci, 2011). On the other hand, the rising feeling of inequality in the society is not related to the inclination to emigrate. Hence, younger persons, ethnic Albanians and those from poorer regions have higher inclination to emigrate because they become dissatisfied with political and economic environment in Macedonia; however, there is no motive related to gender and/or ethnic inequalities behind the inclination to emigrate.

Column 3 of Table 1 brings some further interesting insights. Out of the potential causes of the inclination to emigrate, gender, ethnicity, unskilled labour and regional disparities matter for the inclination to emigrate, through channels other than the dissatisfaction with societal context. Reasons other than dissatisfaction with life include: male heads are more prone to emigrate, likely because of the issues related to the security with travelling to and living in new place abroad; Albanians are more inclined to emigrate probably because they keep much closer ties with their diaspora compared to Macedonians; persons with primary education or less are more prone to emigrate than skilled persons. The latter is against the common perception that the newer waves of emigration are actually a 'brain drain', more than earlier waves. Results suggest that there is no difference in the dissatisfaction at home at different skills' levels, while the larger inclination of unskilled labour to emigrate may be mainly due to the increased demand of destination countries for unskilled workers.

We find wealthier regions, while providing lower dissatisfaction with life, to support larger inclination to emigrate, which is an interesting finding. It actually suggests that despite people living in poorer communities may be more dissatisfied with life, they become discouraged with their wish to emigrate, considering the costs of emigration. Hence, these costs could be actually borne by the persons living in richer communities, which, in turn, stirs the motivation to emigrate. Finally, persons living in households which already have absent migrant are more inclined to emigrate, but not because they get more dissatisfied with the societal surrounding at home, but probably due to the networking effect: when a person is already at destination, the information and living costs for another member of the household to emigrate are significantly lower, hence incentivizing new emigration.

To investigate this further and to introduce the role of remittances in our analytic framework, we draft Table 2. Column (1) splits the households with an absent migrant who does not send remittances from those households with a migrant who sends money, while column (2) adds the log of the amount of

remittances received. While these results corroborate our earlier findings, they actually suggest that only persons in households who get remittances become more inclined to emigrate (column 1) and that the inclination to emigrate grows with the amount of remittances received (column 2). The finding suggests that remittances are perceived to provide the grounds for easier emigration: they likely bridge the costs needed for emigrating.

Table 2. Role of remittances

Table 2. Role of ferintiances	HH who receive or not remittances (1)	The amount of remittances (2)
Gender of head (1=male)	0.166*	0.158*
,	(-0.0895)	(-0.0895)
Age of head (in years)	-0.0045	-0.00396
,	(-0.018)	(-0.018)
Age squared	-0.00017	-0.00018
ŭ •	(-0.0002)	(-0.0002)
Ethnicity (1=Albanian)	0.268**	0.269**
	(-0.119)	(-0.119)
Primary school or less	0.299**	0.303**
	(-0.130)	(-0.130)
Secondary school	0.0359	0.0363
	(-0.103)	(-0.103)
Marital status of head (1=married)	0.0273	0.0262
	(-0.111)	(-0.111)
Employment status of head (1=employed)	-0.151	-0.157
	(-0.102)	(-0.101)
Number of household members	0.0361	0.0329
	(-0.034)	(-0.0338)
Share of dependent household members	0.228	0.195
	(-0.215)	(-0.213)
Geography (1=urban)	0.022	0.0139
	(-0.105)	(-0.105)
Log of regional GDP	1.050***	1.050***
	(-0.148)	(-0.147)
Migration (1=household has absent migrant		
who does not send remittances)	0.132	-
	(-0.129)	
Migration (1=household has absent migrant		
who sends remittances)	0.323***	-
	(-0.124)	
Log of the amount of remittances received	-	0.0351**
		(-0.0146)
Prediction: Dissatisfaction with life	0.676***	0.677***
	(-0.0484)	(-0.0487)
Prediction: Feeling unequal	0.115	0.117
	(-0.123)	(-0.123)
N: Source: Authors' calculations.	1,094	1,094

Source: Authors' calculations.

Notes: *, ** and *** denote statistical significance at the 10%, 5% and 1% level, respectively. Standard errors are given in parentheses.

Conclusions and policy recommendations

The objective of this paper is to describe the current inclination to emigrate from Macedonia, in the light of the dissatisfaction with the domestic political and economic environment and the potential feeling of gender and ethnic inequalities. Particular reference is made to the role of remittances, as they represent a large source of financing of Macedonian households. We use the Remittances Survey 2008 and treat dissatisfaction, feeling of inequality and inclination to emigrate as latent continuous variables in a MIMIC model, observed only imperfectly in terms of respondents' perceptions and opinions.

Results robustly suggest that dissatisfaction with the societal conditions in Macedonia grows with age, up to the 36, after which it declines. Also, we find it to be more prevalent among ethnic Albanians, and lower among richer regions in the country. On the other hand, the feelings of gender and ethnic inequalities grow with age, while Albanians on average have a higher feeling of inequality. Dissatisfaction then feeds inclination to emigrate. On the other hand, the feeling of inequality is not related to the inclination to emigrate. Further to this, however, males and less educated persons are more inclined to emigrate, irrespective of their level of dissatisfaction. We find that remittances play a strong role for the inclination to emigrate: in essence, inclination is larger in households which receive remittances and grows with the amount received, as it is likely that remittances alleviate financial constraints for other persons in the household to emigrate.

Overall, results sufficiently succinctly describe Macedonian reality: persons in their late 20s or early 30s become more dissatisfied with the societal context in Macedonia and become more incentivized to emigrate. The male head has the courage to migrate first, usually at the moment when a demand for his level of skills emerges. Then, he has an intention to 'drag' his wife and/or his children later when the remittances he sent have been commensurate to the costs needed for them to depart. On the other hand, we invalidated a couple of common perceptions in the society: that ethnic Albanians emigrate more than Macedonians because they are exposed to unequal treatment; that people are frustrated with life in Macedonia when they see their close-family emigrants living in more favourable political and economic circumstances abroad; and that the newer waves of emigration are more of a 'brain drain' than earlier waves.

References

- Agadjanian, V., Nedoluzhko, L. & Kumskov, G. (2008). Eager to Leave? Intentions to Migrate Abroad among Young People in Kyrgyzstan. *International Migration Review*, 42(3), 620-651.
- Aigner, D. J., C. Hsiao, A. Kapetyn, & T. Wansbreek (1984). Latent Variable Models in Econometrics in *Handbook of Econometrics* II (Z. Griliches and M.D. Intriligator, eds) Elsevier Science, Amsterdam, 1321-1393.
- Bailey, T. (2003). Skills migration. Human Resources Development Review. Cape Town: HSRC Press.

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- Bornarova S. & Janeska V. (2012). Social Impact of Emigration and Rural-Urban Migration in Central and Eastern Europe, Final Country Report FYR Macedonia, EC DG Employment.
- Charsley, K., Storer-Church, B., Benson, M. & Hear, N. (2012). Marriage-Related Migration to the UK. *International Migration Review*, 46(4), 861-890.
- CRPM Center for Research and Policy Making (2007). Strengthening Cross-Border Cooperation in the Western Balkan regarding Migration Management Macedonia. Migration Flows in Modern Macedonia. Skopje: Center for Research and Policy Making.
- Curran, Sara R. & Saguy, A. C. (2001). Migration and Cultural Change: A Role for Gender and Social Networks? *Journal of International Women's Studies*, 2(3), 54-77.
- De Jong, G. F. (2000). Expectations, Gender, and Norms in Migration Decision-Making. *Population Studies*, 54, 307–319.
- De Jong, G. F., K. Richter, & P. Isarabhakdi (1996). Gender, Values, and Intentions to Move in Rural Thailand. *International Migration Review*, 30(3), 748–770.
- Dietz, B. (2010). Migration and Remittances in Macedonia: A Review. IOS Regensburg Working Paper.
- Donato, K.M., Piya, B. & Jacobs, A. (2014). The Double Disadvantage Reconsidered: Gender, Immigration, Marital Status, and Global Labor Force Participation in the 21st Century. *International Migration Review*, 48(9), S335-S376.
- Dzvimbo, K. P. (2003). The International Migration of Skilled Human Capital from Developing Countries. A case study prepared for a Regional Training Conference on Improving Tertiary Education in Sub-Saharan Africa: Things That Work!, Accra, September 23-25, 2003.
- EduCon Research (2009). Development on the Move: Measuring and Optimizing the Economic and Social Impacts of Migration in the Republic of Macedonia. Skopje: EduCon Research.
- Gertler, Paul J. (1988). A Latent Variable Model of Quality Determination *Journal of Business and Economic Statistics* 6, 97-107.
- Goldberger, A. S. (1972). Structural Equation Methods in the Social Sciences *Econometrica*, 40, 979-1001.
- IMF (2014). Remittances and Economic Development in FYR Macedonia. IMF Country Report No. 14/232.
- Jacobsen, J. P., & L. M. Levin (2000). The Effects of Internal Migration on the Relative Economic Status of Women and Men. *Journal of Socio-Economics*, 29, 291–304.
- Kanaiaupuni, S. M. (2000). Reframing the Migration Question: An Analysis of Men, Women and Gender in Mexico. *Social Forces*, 78(4), 1311–1347.
- Laruelle, M. (2006). Le Nouveau Rôle de la Russie en Asie Centrale: Les Migrations de Travail des Centreasiatiques vers la Fédération Russe. *La Revue Internationale e Stratégique*, 64, 133–142.
- Petreski, M. & Jovanovic, B. (2015). Do Remittances Reduce Poverty and Inequality in the Western Balkans? Evidence from Macedonia? In: Dahinden, J., Efendic, A. and Zbinden, M. (eds.) Diversity of Migration in South East Europe. Fribourg, RRPP Joint Volume.
- Petreski, M. & Jovanovic, B. eds. (2013). Remittances and Development in the Western Balkans: The cases of Macedonia, Kosovo and Bosnia-Herzegovina. Scholars' Press.
- Petreski, M., Mojsoska-Blazevski, N., Ristovska, M. & Smokvarski, E. (2014). Youth Self-Employment in Households Receiving Remittances in Macedonia, Working Papers PMMA 2014-08, PEP-PMMA.

- Stinner, W. F., & M. Van Loon (1992). Community Size Preference Status, Community Satisfaction and Migration Intentions. *Population and Environment*, 14(2), 177–195.
- United Nations, Department of Economic and Social Affairs (2013). Trends in International Migrant Stock: The 2013 revision (United Nations database, POP/DB/MIG/Stock/Rev.2013).
- Yang, X. (2000). Determinants of Migration Intentions in Hubei Province, China: Individual versus Family Migration. *Environment and Planning A*, 32(5), 769–787.
- Sirkeci, I. (2009). Transnational Mobility and Conflict. Migration Letters, 6(1), 3-14.
- Cohen, J. H. and Sirkeci, I. (2011). *Cultures of Migration, the Global Nature of Contemporary Mobility*. University of Texas Press, Austin, USA.