

Building social capital in a new home country. A closer look into the predictors of bonding and bridging relationships of migrant populations at different education levels

Minna Tuominen^{*,†}, Elina Kilpi-Jakonen[†],
Regina García Velázquez[‡], Anu Castaneda[‡] and
Hannamaria Kuusio[‡]

[†]Department of Social Research/INVEST Research Flagship Centre, University of Turku, Turku 20014, Finland and [‡]Migration and Cultural Diversity Team, Finnish Institute for Health and Welfare, Helsinki 00271, Finland

*Corresponding author. Email: minna.r.tuominen@utu.fi

Abstract

This article explores the factors that may facilitate or hinder the development of migrant social capital in a settlement country. We build on Robert Putnam's dyad of bonding and bridging social capital, which are here combined into a single categorical dependent variable. As earlier research shows that higher educated migrants tend to form more extensive social relationships, we explore whether they draw from different background factors to build social capital than those with less education. Separate multinomial regression analyses are conducted for the two education groups using data from the Survey on Well-Being among Foreign Born Population in Finland (n: 5,247). The study finds important differences but also similarities between the education groups. The higher educated group most commonly possesses abundant social capital (i.e. extensive bonding and bridging relationships), while in the lower education group, the proportion of people with scarce social capital (limited bonding and bridging relationships) outnumbered those with abundant capital by over twofold. A satisfactory level of income emerges as the single most important underlying factor that both education groups draw from to build abundant social capital, but it is a far more common characteristic in the higher education group. Yet, income is not enough to explain the disparity between the education groups. Furthermore, the migration-related characteristics shield the higher education group from scarce or one-sided social capital. The lower educated group derive

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benefits from education obtained in the new home country. Individual characteristics outweigh the importance of context-related factors for social capital development.

Keywords: bonding and bridging social capital, social relationships, social networks, migration, socioeconomic status, societal context

1. Introduction

Migration is often driven by a search for improved wellbeing for oneself and one's family. However, migration also breaks social relationships, separates people from their loved ones, and increases the risk of social exclusion. Linguistic barriers, cultural disorientation, lower socioeconomic status, and a sense of dislocation can reduce the motivation for social participation and give rise to feelings of isolation and loneliness (Hendriks et al. 2018). Loneliness, in particular, affects those whose culture and language of origin differ from the culture and language of the settlement country (de Jong Gierveld, van der Pas and Keating 2015).

Social relationships have been identified as playing an important role in improving wellbeing (e.g. Arpino and de Valk 2018), a sense of belonging (Schnell, Kohlbacher and Reeger 2015), social integration (Patulny 2015), and access to employment (e.g. Kanas et al. 2012). Generally, higher educated migrants tend to have broader and more diverse social contacts than those with less education (Martinovic, van Tubergen and Maas 2015; Patulny 2015; Koops, Martinovic and Weesie 2017). This is sometimes explained through their higher human and economic capital (Ryan 2011). They may have a job or a study place settled before migrating, which smooths their social engagement and integration. Some researchers suggest, however, that the development of social relationships largely depends on the length of stay in the host country (e.g. Facchini, Patacchini and Steinhardt 2014), or on one's age at the time of migration, as children adjust easier than adults to a new social environment (e.g. Eve 2010). Yet, other research focuses on the host country context and the presence of other migrants in the settlement area as critical determinants of the newcomers' social connectedness (e.g. Schnell, Kohlbacher and Reeger 2015). Each of these arguments have gained some empirical support, but their relevance is seldom tested systematically in one study.

As social networks are vital to various aspects of life, this study seeks to gain deeper insight into factors that may influence migrants' ability to establish social networks in a new home country. We employ a wide range of measures related to the migration background, socioeconomic status, and societal context, which earlier research has associated with the development of social relationships. We combine all these in one model to assess their respective relevance for social capital building. Given that the social networks of highly educated migrants have been shown to differ from those of less educated ones, we conduct separate analyses for different education groups. Our objective is to understand whether these groups employ distinct resources when creating new social relationships. Additionally, we seek to identify factors that may critically weaken or strengthen the

networking capacity of each group. Ultimately, we aim to contribute to the social integration and well-being of migrants in their new settlement country, irrespective of their educational level.

This article analyses a representative sample of over 5,000 foreign-born people who have personally immigrated to Finland. Here, we use the term ‘migrant’ to refer to them. Throughout the article, we use the concepts of social relationships, social contacts, and social ties interchangeably. We apply the term ‘social network’ to refer to a larger set of relationships.

2. Predictors of social relationships among migrants

The migration literature includes some insightful descriptions of the manifold processes involved in building new social relationships in the settlement context. We summarise next some of the most pivotal quantitative and qualitative findings, beginning with factors directly related to migration and then proceeding to more general aspects.

2.1 Migration-related factors associated with the development of social relationships

Few people migrate voluntarily without having prior contacts in the target society (Eve 2010). In particular, when migration is economically motivated and is directed from poorer to wealthier countries, both the decision to migrate and the choice of destination are often guided by pre-existing social ties in different locations (e.g. Morad and Sacchetto 2020; Bilecen and Lubbers 2021; Varshaver and Rocheva 2021).

These pre-existing contacts assist in many ways, including with finding accommodation and employment, as well as helping the new arrivals navigate the unfamiliar setting (Varshaver and Rocheva 2021). Insufficient language skills often heighten newcomers’ dependency on such contacts (Bilecen and Lubbers 2021). Furthermore, many social practices follow unspoken culture-specific norms, which can be difficult for newly arrived foreigners to decode (Linnanmäki-Koskela 2010). Logically, they turn to those whose language and behaviour they understand. The greater the difference between the culture and language of the origin country with those of the settlement country, the harder it is to cope (Portes and Rumbaut 2001; de Jong Gierveld, van der Pas and Keating 2015; Lynch et al. 2022), and, presumably, the stronger the reliance on co-ethnic contacts.

While established settlers may feel a moral obligation to support their newly arrived kin or ethnic group members, economic resources may limit their open-handedness. For example, refugees whose only social relationships are with other refugees likely encounter meagre sources to draw from when in need of support (Patulny 2015). Evidence has also suggested that the norm of generosity is less observed if the local context is hostile towards immigration (Engbersen, Snel, and Esteves 2016). The norms orienting generosity also vary culturally (Mauss 1990; Feng and Patulny 2021).

The literature often associates co-ethnic/-national ties to strong, bonding social relationships (e.g. Kanas et al. 2012). This may be valid when people share such attributes as values, attitudes, lifestyle, and areas of interest. However, sometimes co-ethnic ties are the only

resource available to newcomers without representing particularly close relationships. For example, due to the challenges of the initial phase of resettlement, people who have nothing in common other than their nationality/ethnicity may end up sharing a residence.

Sometimes, migration pushes people into an uncomfortable social-class position that is profoundly different from what they identify with (Ryan 2011). People with advantaged backgrounds may end up in a low socioeconomic status due to cultural ‘incapacity’, limited language skills, non-transferrable qualifications, low income, or discriminatory settlement context; thus, migrants often have to renegotiate their social and professional standing in the host country (Csedő 2008). Inevitably, this affects their inclination to connect with new people.

Settlement circumstances can be radically different for skilled professionals or foreign exchange students who move from one country to another for career or school opportunities. These populations may not have pre-existing social relationships in the settlement society, but often they have a work or study place to set already in advance. Often, they also have previous international experience and the right kind of professional, social, and language skills, which help them to build social ties (Kennedy 2005). Thus, there is less need for co-ethnic relationships (Schnell, Kohlbacher and Reeger 2015).

While a higher education level has been associated with broader social relationships (Martinovic, van Tubergen and Maas 2015; Patulny 2015; Koops, Martinovic and Weesie 2017), some longitudinal evidence suggests that the effect of education only applies at the between-person but not the within-person level. In other words, the average volume of social contacts is higher in higher educated groups, but an increase in education at the individual level does not increase the size of his/her social network (Martinovic, van Tubergen and Maas 2015). Therefore, we assume that there are shared group-related characteristics that can, at least partly, explain the different social networking patterns between education groups.

The social context is again very different for people who migrated as children and experienced the settlement country’s formal education system. They are likely to have internalised the local norms, values, and practices and are culturally more at ease. They are often able to develop social and professional relationships with greater confidence and skill than those who migrate as adults (Eve 2010; Linnanmäki-Koskela 2010). In many ways, the social and professional conduct of these childhood settlers resembles that of the local majority population (Eve 2010).

As language and cultural skills improve over time, migrants tend to gravitate towards new social circuits (e.g. Pratsinakis et al. 2017; de Guzman and Garcia 2018; Varshaver and Rocheva 2021). It has been shown that increasing language proficiency contributes positively to the formation of new social relationships, but also the formation of relationships contributes to greater language proficiency (Martinovic, van Tubergen and Maas 2015). Overall, we hypothesise that many migration-related factors, including local language skills and length of stay in the settlement country will matter essentially for the lower educated migrants’ social connectedness, who need to make a greater effort to adjust to the new context.

In general, major life events (marriage, childbirth, the death of a spouse, etc.) tend to influence social networks of both migrant and non-migrant populations. Migration itself is an event that pulls people together. Foreigners often share an emotional deprivation, a

need to build friendships, an absence of family commitments, and a feeling of being an outsider (Kennedy 2005). Therefore, ethnic/national heterogeneity is a typical characteristic of migrants' social networks (Patulny 2015; Pratsinakis et al. 2017). We expect that the presence of other foreigners in the living area relates positively to the development of social relationships both among the higher and lower education groups, but the latter may be more dependent on this resource than the former.

2.2 Other factors related to development of social relationships

Several individual, demographic, and contextual factors have been associated with social relationship building. First, people need opportunities to meet (Lubbers, Molina and McCarty 2021). Most friendship ties are formed in a limited number of locations, including schools, jobs, neighbourhoods, universities, military service (Eve 2010), and formal organisations (Ryan 2011). Overall, connecting with new people requires shared interests or experiences, such as work, hobbies, life events, family situations, living areas, and, to some extent, a common language. Often, new contacts are prompted through an existing friend or relative (Eve 2010; Lubbers, Molina and McCarty 2021).

Employment provides people with vital opportunities to find friends and acquaintances in the settlement country (Ryan 2011; Martinovic, van Tubergen and Maas 2015). Higher status jobs are related to more frequent interaction with the majority population (Martinovic, van Tubergen and Maas 2015; Koops, Martinovic and Weesie 2017). In general, even among non-migrants, a higher socioeconomic position relates to broader social networks with more diverse set of people (e.g. Lin, 2000, 2001; Kouvo 2010). We expect social standing to be related to social connectedness among both higher and lower educated migrants. However, this relationship may be even more relevant for the higher education group, who often migrate precisely thanks to their social standing.

A host country's policies, legal and economic environments, and sociocultural diversity establish and largely define the scope within which the migrant population can develop social relationships (e.g. Bilecen and Lubbers 2021; Klarenbeek 2021). Sometimes, structural issues may impede access to potentially strategic networks (e.g. job markets), for example, when a non-EU citizen is denied a work permit or when their foreign credentials are not recognised (Lubbers, Molina and McCarty 2021). Such challenges particularly affect people with low qualifications or qualifications that are not globally transferrable (Csedó 2008). In contrast, highly skilled foreigners with broad theoretical knowledge are sought after by the wealthiest nations and may be offered a facilitated access to the local labour market (OECD 2008). The term 'highly skilled' usually translates to tertiary education (e.g. EU Council directive 2009/50/EC, Article 2).

These elements are beyond migrants' influence and may explain why some are able to build broadly heterogeneous social networks while others only manage to connect with other foreigners. Therefore, it is important to consider structural elements along with individual level characteristics as predictors of network formation (Lubbers, Molina and McCarty 2021). Overall, we hypothesise that structural/contextual elements have more influence on the social network formation of the lower rather than the higher educated migrants.

Another relevant, although often ignored element in this research field is gender. Evidence indicates that migrant men tend to use broader networks of acquaintances, for example, when looking for support, while migrant women rely more heavily on immediate and extended family (Lin 2000; Hoang 2011; Riosmena and Liu 2019). Also, being married and having children may contribute positively to more frequent interactions with new and existing social contacts (e.g. Ryan and Mulholland 2014b; Patulny 2015; Koelet, Van Mol and de Valk 2017; Lubbers, Molina and McCarty 2021). Ultimately, one's inclination for social interaction depends heavily on personality: some people are simply more sociable than others (Lubbers et al. 2010; Koelet, Van Mol and de Valk 2017; see also Lynch et al. 2022). As personality influences the self-selection of prospective migrants (Boneva and Frieze 2001; McKenzie, Stillman and Gibson 2010), it would be important to control for it. However, like most social surveys, our data do not include information about the different personality traits.

3. Conceptualisation of social capital

To distinguish between different types of social relationships, we use Putnam's (2000) conceptualisation of bonding and bridging social capital. The former comprises exclusive relationships involving family and close friends, whereas the latter refers to more inclusive relationships with more distant acquaintances. The categories of bonding and bridging build on Putnam's theory of social capital, which he understands as a multi-dimensional asset comprising social relationships, trust, and reciprocity (Putnam 2000: 19–24, 134–138). In his perspective, bonding social capital, by nature, grows within relationships that involve high levels of mutual trust and reciprocity. It boosts our self-worth and overall well-being. Bridging social capital requires less personal level involvement, but relies nonetheless on the belief that other people are generally well-intentioned. In line with the principle of homophily, bonding social capital develops typically between people who are similar to each other, while bridging social capital connects people from different backgrounds and can generate diverse identities. Migration researchers often associate bridging social capital with inter-ethnic relationships, particularly with local majority population. Therefore, bridging social capital is sometimes taken as an indicator of social integration (Nannestad, Svendsen and Svendsen 2008).

When introducing the concepts of bonding and bridging social capital, Putnam makes a reference to Granovetter's strong and weak ties. Despite striking similarities, there is nonetheless one fundamental difference. Granovetter (1983) considers social ties valuable only to the extent they generate direct benefits (228–229). Putnam, by contrast, considers positive social relationships valuable *per se* as they can contribute to various desirable outcomes, such as greater happiness, health, well-being, overall security, and social cohesion (Putnam 2000: 326–335; Helliwell and Putnam 2004).

However, Putnam (2000: 350–363) recognises that not all social relationships are positive. Because of homophily, some forms of bonding social capital may lead to hostility towards diversity and rejection of outsiders. Moreover, exclusive bonding relationships tend to reinforce social stratification as they hold people together with others similar to themselves. According to Putnam, the risk of harmful social capital is heightened by narrow

bonding relationships without a blend of bridging social capital. Conversely, a combination of both bonding and bridging capital is what increases the likelihood of greater tolerance, healthier social interaction, and higher overall well-being.

Despite the referred contrasts, bonding and bridging are not mutually exclusive categories. An individual may bond with a group of people with whom she/he has some similarities (e.g. same ethnicity and/or religion) and bridge with the same group due to critical differences (e.g. socioeconomic statuses) (Putnam 2000: 23). It can be assumed that, just as with strong ties, also with bonding social capital, not all relationships are equally strong; some form a stronger bond than others. In addition, strong ties or bonding social capital can create opportunities for forming new bridging relationships, and over time, bridging relationships can occasionally develop into strong bonds (Kennedy 2005; Ryan and Mulholland 2014b; Lubbers, Molina and McCarty 2021).

In much of the social network literature, there is an implicit understanding that, over time, social networks grow or remain stable but they do not shrink. However, this is not always true. Friendships can wane when shared interests recede (Ryan and Mulholland 2014a), and some people deliberately retreat from their social networks when, for example, the moral obligation of helping a kin member becomes too draining or when the co-ethnic group poses overly stringent social control (Portes and Sensenbrenner 1993; Varshaver and Rocheva 2021). Sometimes, people drift away from their co-national groups after the first year but return later with a renewed need for the familiarity (Lubbers et al. 2010; de Guzman and Garcia 2018).

Overall, strong bonds are more stable and longer lasting; more distant relationships tend to wither if the connecting context (e.g. a job) disappears. However, the latter are easier to replace than the former (Lubbers, Molina and McCarty 2021). A longitudinal study by Lubbers et al. (2010) revealed a high turnover in migrants' social networks over time. In the long run, however, the overall structure of the networks remained stable. These findings seem to imply that time matters for the development of social networks, but not linearly.

Ryan (2011, 2014b) discourages the use of dichotomies (e.g. bonding vs. bridging, strong ties vs. weak ties), as they create an illusion of simplicity of intricate vibrant relationships. Instead, the author recommends focusing on the nature of the relationships and the quality of the resources they can provide (Ryan 2011). We can easily agree with this view; however, we argue that science still needs simple, somewhat artificial categories (e.g. native/immigrant, black/white, advantaged/disadvantaged, etc.) to make sense of the complex world. By simplifying things, we may be able to unravel patterns that would otherwise go unnoticed. While it is important to consider that social contacts form a complex, time-variant resource that evolves in a non-linear fashion, we, like many researchers before us, employ the simple dichotomy of bonding and bridging social capital, aiming to understand what fosters or hinders their development among migrants.

3.1 Spectrum of social capital

To study migrants' social relationships, Patulny (2015) has developed a spectrum of integration based on three characteristics: extension of bonding social capital, extension of bridging social capital, and the degree of ethnic diversity of social contacts. At one end of

the spectrum is full integration characterised by broad and ethnically mixed bonding and bridging social capital. At the opposite end is ‘ethnocentric segregation’, referring to the lack of both types of capital or the existence of only some coercive and ethnically homogeneous relationships. Between these extremes, Patulny (2015) identified six different combinations of high versus low bonding and bridging social capital of ethnically homogeneous versus heterogeneous relationships.

The current study employs a simplified version of Patulny’s spectrum. Our dataset does not include information about the ethnicity/nationality of the respondents’ friends or families; therefore, the dimension of the ethnic heterogeneity of their social relationships is beyond our reach. Consequently, we do not measure integration as such; rather, we assess the scope of migrants’ social relationships to compose four categories of social capital (see Table 1). For simplicity, these are referred to as *abundant social capital* (extensive bonding and bridging relationships), *scarce social capital* (limited bonding and bridging relationships), *mainly bonding social capital* (extensive bonding but scarce bridging relationships), and *mainly bridging social capital* (scarce bonding but extensive bridging relationships).

3.2 Research questions

This article seeks to understand the resources and contexts that shape social capital formation of migrant populations in their settlement country. More specifically, the study explores whether the migration context (motive for migration, age at the time of migration, years lived in Finland, Finnish citizenship, and local language skills), socioeconomic status (education attained in Finland and self-reported level of income), or social context (degree of urbanity of the living area, proportion of migrants living in the neighbourhood, and experiences of discrimination) predict the accumulation of social capital while controlling for a range of other background factors. Since earlier research indicates that highly skilled migrants tend to build more extensive social relationships (Martinovic, van Tubergen and Maas 2015; Patulny 2015; Koops, Martinovic and Weesie 2017), we examine whether the tertiary educated migrants use different resources than those with a lower level education to build social relationships. Based on earlier literature, we hypothesise the following differences between education groups:

Table 1. Spectrum of social capital (a modified version of Patulny’s (2015) spectrum of integration)

		Bridging social capital	
		Extensive	Limited
Bonding social capital	Extensive	Abundant social capital	Mainly bonding social capital
	Limited	Mainly bridging social capital	Scarce social capital

- (1) Migration-related factors are mainly relevant for social capital formation among lower educated migrants (H1).
- (2) Factors related to social standing matter more, or at least as much, for social connectedness among higher educated migrants as they do for lower educated migrants (H2).
- (3) Social context-related elements are more important for social connectedness among lower educated migrants (H3).

4. Finland as the settlement context

Between 2000 and 2020, the share of migrants¹ in Finland grew from 2 to 8 per cent corresponding to approximately 444,000 people by the end of this period. Until 2022, when the war broke out in Ukraine, the largest migrant groups came from the former Soviet Union, Estonia, Iraq, Somalia, and former Yugoslavia ([Statistics Finland, n.d.](#)).

In 2015, the number of asylum seekers rose to a then all-time high of 32,477 but dropped quickly in the following years, settling at 2,500–3,200 per year in 2020–1 ([Finnish Immigration Service 2022](#)). In 2019–20, the most common reasons to move to Finland were work, family relationships, and studies. During these years, the government has recognised increasingly that immigration opens up an opportunity to increase employment and reduce the overall dependency ratio (Programme of Prime Minister Sanna Marin's Government 10 December 2019).

According to the international Migrant Integration Policy Index, Finland is among the world's top-10 countries with the most favourable policy environments regarding immigration ([Migrant Integration Policy Index 2021](#)). Finland's Act on the Promotion of Immigrant Integration (1386/2010) seeks to enable migrant settlers to achieve equality in terms of rights and obligations. The act recognises that integration is a two-way process; it seeks not only to integrate foreign citizens into Finnish society, but also to integrate native Finns into a more multicultural and multi-ethnic society (see also [Saukkonen 2013](#)).

In practice, newcomers are provided with support services for integration as needed, including local language training (Finnish or Swedish); social, cultural, and life skills training; and help accessing the labour market or further education ([Ministry of Economic Affairs and Employment of Finland n.d.](#)). School-aged children are integrated into the national education system with local language training combined with education on their mother tongue. Associations of ethnic minorities are provided with public funding to promote their cultures and languages of origin. Overall, these processes are said to promote strong identities and self-confidence to facilitate healthy integration into and interaction with the majority population ([Saukkonen 2013](#)).

The implementation of integration services relies on the municipalities. A recent assessment showed that there is a disparity in the preparedness and capacities of the municipal authorities in terms of providing such services. A dimension often overlooked by the implementers is that of preparing the majority population to embrace the multicultural social context ([Koskimies and Kettunen 2022](#)).

Several studies have indicated that migrants, particularly people coming from countries outside of the European Union, continue to face difficulties in achieving equal status in

many areas of Finnish society, including the labour market (Ahmad 2020) and the education system (e.g. Kilpi-Jakonen 2011; Harju-Luukkainen et al. 2014). A striking 40 per cent of migrants have reported experiencing some form of discrimination (Rask and Castaneda 2019): men of African or Middle Eastern origins are discriminated against the most.

5. Data and methods

We used data from the Survey on Well-Being among Foreign Born Population (FinMonik) collected by the Finnish Institute for Health and Welfare (THL) in 2018–9 (Kuusio et al. 2021). FinMonik is a cross-sectional survey targeting migrants (18–64 years) who were born abroad and whose parents were also born abroad, but who have lived in Finland for at least a year. The survey was granted an ethical approval by the Institutional Review Board of THL (Decision number: THL/271/6.02.01/2018 §783). The study is exceptional in that it was conducted not only in the official languages of the country (Finnish and Swedish) but also in the 16 foreign languages² most commonly spoken in Finland. This enabled gathering data from people who have not been reached by most other surveys.

According to official statistics, the migrant population in Finland in 2020 comprised 444,031 people. The FinMonik target sample was drawn by Statistics Finland from the population register using regional stratification (24 regions), and it consisted of 12,877 people (after removing over-coverage). Of these, 53 per cent (6,836 people) responded to the survey. Subsequently, the data were complemented with demographic and socioeconomic information from official registers obtained from Statistics Finland (THL 2020).

Our analytical sample consisted of 5,247 people who had no missing data in the variables included in our analyses. An examination of the missing cases revealed that our analytical sample had a slight over-representation of people who had tertiary education,³ who were employed, who spoke Finnish/Swedish at an advanced level, and who were married/partnered. At the same time, there was a narrow under-representation of people with the origin in the Middle East or Northern-Africa, but a slightly over-representation of people from Russia and Europe, North-America, or Oceania. However, the differences to the full sample were narrow, all less than two percentage points. To account for non-participation and stratified random sampling, we apply sampling weights in our analyses.

5.1 Dependent variable

Inspired by Patulny's (2015) spectrum of integration, we composed a new variable measuring migrants' social capital that has four categories as displayed in Table 1. While there is no standard way to measure bonding and bridging social capital, our attempt is to formulate a simple indicator that would measure the quality of social relationships as precisely as possible. To measure the extent of bonding social capital, we used two survey questions: (1) 'How many good friends do you have living in Finland? Consider all those whom you can trust and who can help you when you are in need.' and (2) 'When you are in need, from whom do you receive practical help?'. Regarding the latter, the original response categories allowed for multiple choices, including spouse/other close family members, close friends,

close colleagues, close neighbours, other close people, or nobody. With these questions, we built a new measure distinguishing between extensive versus limited bonding relationships. Extensive bonding social capital was operationalised as reporting at least two good friends in Finland *and* at least two different source categories of help. Otherwise, the respondent was considered as having limited bonding social capital.

For bridging social capital, we used likewise two questions: (1) 'During the past 12 months, how often did you participate in the activities of: sports associations; own language or culture group; a hobby group; political association; labour union; religious or spiritual society; associations for children, youth, or families; associations for older people; other association or group?' For each association/group, the original response alternatives ranged between 1 and 5 ('did not participate' to 'participated three or more times a week'). In addition, given that work environment forms an important arena for establishing more distant contacts (Granovetter 1983; Putnam 2000), we also considered 'being employed' as participation in one type of group. (2) 'To what extent you feel belonging to: your municipality, Finns, Europeans, people of your country of origin, citizens of the world?' Multiple choices were allowed, and for each option the response alternatives ranged from 1 to 4 ('totally' to 'not at all'). With these questions, we composed a new measure to distinguish between extensive and limited bridging social relationships. Extensive bridging social capital was operationalised through the following criteria: participating regularly (at least once a month) in at least two types of groups *and* feeling belonging to at least two different groups. Otherwise, the respondent was considered as having limited bridging social capital.

As described above, we combined the measures of bonding and bridging into a single indicator with four categories (Table 1): (1) extensive bonding and bridging relationships (abundant social capital), (2) extensive bonding but limited bridging relationships (mainly bonding social capital), (3) limited bonding but extensive bridging relationships (mainly bridging social capital), and (4) limited bonding and bridging relationships (scarce social capital). This was used as the dependent variable in the analyses.

5.2 Independent variables

Initially, our analyses included three groups of key predictors: those related to migration background, socio-economic status, and contextual aspects. However, as explained below, the goodness-of-fit indices did not support the inclusion of context-related variables. Therefore, these were ultimately excluded from the final models.

We used five migration-related variables: the primary motive of migration (family, job, studies, asylum seeking, or Ingrian Finn or other returnees⁴), age at the time of migration (under 12, 12–19, 20–29, 30–39, or 40+ years), number of years lived in Finland (1–4, 5–10, or 10+ years), whether the respondent had Finnish citizenship (no/yes), and self-reported Finnish/Swedish language skills (not at all/beginner, intermediate, or advanced).

Respondents' socio-economic status was measured through the self-rated income level (not sufficient, reasonable, or sufficient) and whether they had acquired some education in Finland. We recognise that income level relates directly to the employment status, which is included in the dependent variable, but in reverse temporal order. However, we found it theoretically relevant to keep both variables in the model. To test for the

robustness of the results, we ran the same models on a modified dependent variable that excluded employment. The results of the robustness check are discussed below.

The contextual dimension is more challenging to capture with a survey. In our data, three variables were available for this purpose: the degree of urbanity of the municipality of residence (urban, semi-urban, or rural), the proportion of people with foreign background⁵ living in the same municipality, and whether a respondent had experienced any form of discrimination from a non-family member in the past 12 months.⁶ However, based on the model fit indices, these were excluded from the final models (see below).

All models included controls for gender (man/woman), age (in years), marital/partnership status (no/yes), whether the respondent lives alone (no/yes), self-rated health status (poor, average, or good), and the region of origin (Europe/North America/Oceania, Russia/ex-Soviet Union, Estonia, Middle East and North Africa, Africa [excluding North Africa], Southeast Asia, East Asia, South and Central Asia, or Latin America). Models including the full sample were also adjusted for education level (secondary or less vs. tertiary). Of all these, the following are register-based: gender, age, age at the time of migration, years lived in Finland, Finnish citizenship, country of origin, degree of urbanity of the municipality, and the proportion of migrants in the neighbourhood.

Table 2 presents weighted statistics for the independent variables separately for the full sample and the two education levels. Noticeably, there are considerable differences between the education groups in virtually all independent variables.

5.3 Analysis method

We used multinomial logistic regression⁷ with sampling weights to analyse our data, running separate analyses for the full sample and the two education levels (secondary or less vs. tertiary). To specify the final analytical model, we employed a stepwise approach initially considering only the education level and control variables, and subsequently adding predictors one set at a time (migration-related, socioeconomic status (SES), and context-related predictors). The selection of the better-fitting model was oriented by adjusted McFadden's pseudo R^2 , Akaike information criterion (AIC), and Bayesian information criterion (BIC)⁸ indices. The chosen model was then again compared with a more complex model. The results of the comparison are discussed below.

To facilitate interpretation, all results from the multinomial logistic regression models were converted into average marginal effects (AMEs). This produces estimates for each outcome category, including the original reference category, where all the other categories are the reference group. AMEs can be interpreted as a change measured in percentage points in the probability of a given outcome category associated with a one-unit change in the predictor while holding all other variables constant.

6. Results

6.1 Descriptive statistics

Table 3 presents the descriptive statistics for the dependent variable. Overall, nearly one of every four migrants had abundant social capital, whereas roughly one-third reported

Table 2. Sample-weighted statistics (% or mean and confidence interval [CI] for continuous variables) for the independent variables of the full sample and the sub-samples by education level (statistically significant differences between the groups in bold)

	Full sample		Second. education or less		Tertiary education	
	%/Mean	CI	%/Mean	CI	%/Mean	CI
Migration-related predictors						
Motive for migration						
Family-related reasons	43.78		44.98		42.22	
Job	22.49		23.58		21.08	
Studies	11.41		3.19		22.04	
Asylum seeking	13.30		19.19		5.68	
Returnee from Western Russia	9.02		9.06		8.98	
Age at the time of migration						
<12	8.64		11.82		4.51	
12–19	14.21		18.49		8.68	
20–29	43.32		36.64		51.94	
30–39	22.80		20.85		25.31	
40+	11.04		12.19		9.55	
Years lived in Finland						
1–4	18.73		14.89		23.70	
5–10	31.80		31.70		31.92	
<10	49.47		53.41		44.37	
Finnish citizenship	36.92		38.02		35.49	
Finnish/Swedish language skills						
Not at all/beginner	32.43		27.99		38.17	
Intermediate	33.11		36.20		29.12	
Advanced	34.46		35.82		32.71	
Socioeconomic status-related predictors						
Some education attained in Finland	57.84		56.11		60.07	
Self-rated level of income						
Not sufficient	23.84		28.98		17.18	
Reasonable	33.52		34.99		31.62	
Sufficient	42.64		36.02		51.19	

Continued

Table 2. Continued

	Full sample		Second. education or less		Tertiary education	
	%/Mean	CI	%/Mean	CI	%/Mean	CI
Context-related predictors						
Level of urbanity						
Urban	89.28		86.84		92.44	
Semi-urban	5.59		6.95		3.83	
Rural	5.13		6.21		3.72	
Mean % of foreigners in living area	9.71	9.60–9.83	9.53	9.35–9.71	9.95	9.83–10.08
Experienced discrimination in past 12 months	40.07		38.64		41.91	
Control variables						
Woman	48.61		45.70		52.36	
Mean age (years)	38.91	38.41–39.42	38.66	37.90–39.42	39.25	38.62–39.88
Married/in reg. partnership	69.87		66.96		73.64	
Lives alone	22.93		24.57		20.80	
Self-rated health status						
Poor	6.84		7.76		5.65	
Average	24.17		25.97		21.85	
Good	68.99		66.26		72.50	
Country of origin						
Europe, North America, and Oceania	19.62		15.32		25.18	
Russia and ex-SU	23.09		21.54		25.08	
Estonia	13.94		19.03		7.36	
Middle-East and Northern Africa	14.70		18.55		9.72	
Africa (excluding Northern Africa)	8.70		9.57		7.57	
South-East Asia	7.55		8.82		5.91	
East Asia	4.49		2.27		7.36	
South and Central Asia	4.20		1.77		7.35	
Latin-America	3.72		3.12		4.49	
Sample size (<i>n</i>)	5,247		2,695		2,552	
Sample size (%)	100.0		56.38		43.62	

Table 3. Sample-weighted descriptive statistics for the dependent variable of the full sample and the sub-samples by education level (statistically significant differences between the groups in bold)

	Full sample %	Secondary education or less %	Tertiary education %
Social capital			
Abundant social capital	23.50	18.73	29.66
Mainly bonding social capital	21.69	20.54	23.16
Mainly bridging social capital	19.43	19.57	19.25
Scarce social capital	35.38	41.15	27.93
<hr/>			
Sample size (<i>n</i>)	5,247	2,695	2,552
Sample size (%)	100.0	51.36	48.64

scarce social capital. The differences between the education groups were notable. Among those with a higher level of education, the share of both abundant and scarce social capital ranged between 28 and 30 per cent, the former narrowly exceeding the latter. Among those with a lower education level, scarce social capital was by far the most common category characterising over 40 per cent of this population, and outnumbering those with abundant social capital by more than twofold.

6.2 Main findings about social capital

We started the modelling with a base-model including only the education level and control variables and added one set of predictors at a time to find the best-fitting models. The best fit for the full sample and the tertiary education group included controls, migration-related and SES-related variables, but excluded the context-related variables. For the lower education group, the indices were less clear; models with and without context-related variables obtained similar test statistics. However, as none of the context-related variables turned statistically significant, we excluded them from the final models for the lower education group as well. [Table 4](#) shows the detailed estimates of the final multinomial regression models on the spectrum of social capital. For space limitation, the detailed fit indices of the partial models are displayed in the [Supplementary Appendix](#).

6.2.1 Association of migration-related characteristics with social capital. [Fig. 1a–d](#) illustrates multinomial regression estimates for the migration-related predictors on each category of social capital. Overall, migration motives revealed limited statistical significance. However, the direction and the magnitude of the estimates hint of possible underlying patterns. First, migration for work-related reasons instead of family-related motives (reference category) appeared to relate to a reduced probability of remaining with scarce social capital among both education groups, although the result was statistically

Table 4. Sample-weighted multinomial regression results for the full sample and the sub-samples defined by education level in AMEs

	Abundant soc.cap.			Mainly bonding			Mainly bridging			Scarce soc.cap.		
	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary
Migration-related predictors												
Motive for migration (ref. family)												
Job	-0.001 (0.027)	-0.019 (0.037)	0.017 (0.036)	0.010 (0.026)	0.032 (0.040)	-0.009 (0.034)	0.050 (0.030)	0.041 (0.042)	0.062 (0.039)	-0.059* (0.028)	-0.054 (0.042)	-0.069 (0.036)
Studies	0.010 (0.036)	-0.036 (0.082)	0.072 (0.045)	0.070 (0.037)	0.010 (0.078)	0.072 (0.042)	-0.029 (0.030)	-0.029 (0.068)	-0.005 (0.033)	-0.051 (0.036)	0.055 (0.088)	-0.139*** (0.035)
Asylum seeking	-0.020 (0.036)	-0.036 (0.037)	0.040 (0.079)	-0.052 (0.034)	-0.056 (0.040)	-0.076 (0.046)	0.016 (0.037)	-0.006 (0.042)	0.075 (0.063)	0.055 (0.041)	0.098 (0.052)	-0.038 (0.063)
Returnee (from Western Russia)	0.015 (0.033)	-0.009 (0.042)	0.028 (0.049)	-0.007 (0.032)	0.004 (0.042)	-0.027 (0.047)	-0.013 (0.035)	0.025 (0.049)	-0.034 (0.047)	0.004 (0.036)	-0.019 (0.050)	0.032 (0.052)
Age at migration (ref. 20–29 years)												
<12 years	0.013 (0.055)	-0.033 (0.060)	0.130 (0.099)	0.055 (0.056)	-0.018 (0.057)	0.148 (0.100)	-0.022 (0.057)	0.041 (0.087)	-0.104** (0.040)	-0.046 (0.054)	0.010 (0.080)	-0.173*** (0.044)
12–19 years	-0.048 (0.038)	-0.052 (0.043)	-0.052 (0.065)	0.048 (0.038)	0.004 (0.045)	0.098 (0.061)	0.026 (0.039)	0.061 (0.053)	-0.028 (0.047)	-0.026 (0.036)	-0.013 (0.050)	-0.017 (0.052)

Continued

Table 4. Continued

	Abundant soc.cap.			Mainly bonding			Mainly bridging			Scarce soc.cap.		
	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary
30–39 years	–0.025 (0.027)	–0.014 (0.039)	–0.044 (0.038)	–0.008 (0.026)	0.018 (0.040)	–0.035 (0.032)	–0.004 (0.029)	–0.068 (0.037)	0.083* (0.040)	0.037 (0.032)	0.064 (0.046)	–0.004 (0.041)
40+ years	–0.058 (0.042)	–0.041 (0.054)	–0.089 (0.064)	0.026 (0.050)	0.072 (0.076)	–0.030 (0.058)	–0.024 (0.046)	–0.052 (0.056)	0.040 (0.070)	0.055 (0.054)	0.021 (0.069)	0.079 (0.083)
Years lived in Finland (ref. 10+ years)												
1–4 years	0.011 (0.038)	0.040 (0.052)	–0.010 (0.058)	–0.033 (0.039)	–0.065 (0.053)	0.017 (0.050)	–0.003 (0.040)	0.027 (0.056)	–0.085 (0.053)	0.026 (0.042)	–0.002 (0.058)	0.077 (0.059)
5–10 years	0.019 (0.029)	0.008 (0.036)	0.032 (0.044)	–0.003 (0.031)	–0.022 (0.043)	0.027 (0.040)	–0.028 (0.030)	0.028 (0.042)	–0.123** (0.040)	0.012 (0.032)	–0.013 (0.045)	0.064 (0.044)
Finnish citizenship (ref. no)	0.038 (0.024)	0.023 (0.029)	0.067 (0.037)	–0.041 (0.023)	0.003 (0.032)	–0.087** (0.032)	–0.008 (0.028)	–0.011 (0.037)	–0.033 (0.034)	0.012 (0.026)	–0.014 (0.038)	0.053 (0.034)
Finnish/Swedish language skills (ref. not at all/beginner)												
Intermediate	0.031 (0.024)	–0.010 (0.031)	0.090* (0.037)	–0.018 (0.024)	0.018 (0.031)	–0.051 (0.034)	0.011 (0.025)	–0.004 (0.037)	0.018 (0.033)	–0.024 (0.028)	–0.004 (0.041)	–0.057 (0.036)

Continued

Table 4. Continued

	Abundant soc.cap.			Mainly bonding			Mainly bridging			Scarce soc.cap.		
	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary
Advanced	0.095** (0.029)	0.076 (0.040)	0.098* (0.040)	0.021 (0.031)	0.084* (0.040)	-0.018 (0.045)	-0.017 (0.028)	-0.046 (0.042)	0.008 (0.037)	-0.098** (0.031)	-0.115* (0.046)	-0.089* (0.039)
Socioeconomic status-related predictors												
Some education attained in Finland (ref. no)	0.032 (0.024)	0.060* (0.028)	-0.009 (0.037)	-0.013 (0.023)	-0.027 (0.030)	-0.008 (0.033)	0.044 (0.023)	0.050 (0.032)	0.045 (0.030)	-0.063* (0.025)	-0.083* (0.037)	-0.027 (0.030)
Self-rated level of income (ref. not sufficient)												
Reasonable	0.074** (0.025)	0.078* (0.031)	0.067 (0.042)	0.041 (0.025)	0.058 (0.031)	0.005 (0.039)	-0.055 (0.028)	-0.087* (0.036)	0.018 (0.038)	-0.060* (0.029)	-0.049 (0.039)	-0.090* (0.041)
Sufficient	0.130*** (0.025)	0.106*** (0.032)	0.155*** (0.041)	0.042 (0.024)	0.065* (0.030)	-0.002 (0.037)	-0.039 (0.028)	-0.041 (0.037)	0.002 (0.035)	-0.133*** (0.029)	-0.131*** (0.039)	-0.155*** (0.040)
Control variables												
Woman (ref. man)	-0.042* (0.020)	-0.069** (0.026)	-0.008 (0.030)	0.025 (0.020)	0.045 (0.029)	-0.003 (0.027)	-0.019 (0.020)	-0.045 (0.027)	0.019 (0.028)	0.036 (0.022)	0.068* (0.032)	-0.008 (0.027)

Continued

Table 4. Continued

	Abundant soc.cap.			Mainly bonding			Mainly bridging			Scarce soc.cap.		
	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary
Age (in years)	0.001 (0.002)	0.001 (0.002)	0.001 (0.003)	-0.001 (0.002)	-0.004 (0.003)	0.002 (0.002)	0.000 (0.002)	0.002 (0.003)	-0.003 (0.002)	0.000 (0.002)	0.001 (0.003)	-0.000 (0.003)
Married/in reg. partnership (ref. no)	0.034 (0.025)	0.019 (0.029)	0.026 (0.045)	-0.011 (0.026)	-0.038 (0.035)	0.031 (0.039)	0.036 (0.026)	0.070* (0.033)	0.001 (0.037)	-0.058* (0.029)	-0.051 (0.038)	-0.058 (0.041)
Lives alone (ref. does not)	-0.024 (0.029)	-0.028 (0.034)	-0.024 (0.046)	-0.038 (0.026)	-0.014 (0.034)	-0.063 (0.038)	0.080* (0.034)	0.085* (0.043)	0.065 (0.045)	-0.018 (0.029)	-0.043 (0.040)	0.021 (0.040)
Self-rated health status (ref. poor)												
Average	0.042 (0.041)	0.010 (0.051)	0.083 (0.063)	0.077* (0.032)	0.042 (0.046)	0.140** (0.043)	0.114*** (0.028)	0.134*** (0.031)	0.084 (0.050)	-0.234*** (0.048)	-0.186** (0.063)	-0.306*** (0.072)
Good	0.093* (0.039)	0.061 (0.051)	0.134* (0.059)	0.084* (0.030)	0.046 (0.044)	0.134*** (0.036)	0.142*** (0.025)	0.165*** (0.028)	0.115* (0.046)	-0.319*** (0.047)	-0.272*** (0.062)	-0.384*** (0.069)

Continued

Table 4. Continued

	Abundant soc.cap.			Mainly bonding			Mainly bridging			Scarce soc.cap.		
	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary
Country of origin (ref. Europe, N. America, Oceania)												
Russia and ex-SU	-0.065*	0.004	-0.131**	-0.012	-0.059	0.033	0.009	-0.054	0.072	0.068*	0.109*	0.025
	(0.029)	(0.039)	(0.041)	(0.029)	(0.046)	(0.034)	(0.032)	(0.048)	(0.042)	(0.032)	(0.050)	(0.038)
Estonia	-0.026	0.041	-0.087	0.001	-0.046	0.027	-0.039	-0.084	0.020	0.064	0.089	0.040
	(0.040)	(0.050)	(0.058)	(0.036)	(0.049)	(0.059)	(0.034)	(0.046)	(0.053)	(0.042)	(0.056)	(0.066)
Middle-East and Northern Africa	-0.140***	-0.066	-0.238***	-0.022	-0.092	0.083	0.012	0.004	-0.008	0.151***	0.154**	0.162**
	(0.033)	(0.039)	(0.051)	(0.037)	(0.049)	(0.052)	(0.041)	(0.060)	(0.039)	(0.043)	(0.059)	(0.060)
Africa (excluding Northern Africa)	-0.086	-0.009	-0.182*	0.011	-0.014	0.038	0.095	0.074	0.116	-0.020	-0.050	0.028
	(0.050)	(0.059)	(0.076)	(0.052)	(0.074)	(0.062)	(0.055)	(0.078)	(0.063)	(0.048)	(0.068)	(0.065)
South-East Asia	-0.090*	-0.023	-0.158**	0.036	-0.003	0.101	-0.024	-0.054	0.005	0.078	0.080	0.052
	(0.037)	(0.046)	(0.060)	(0.043)	(0.059)	(0.066)	(0.037)	(0.050)	(0.056)	(0.043)	(0.058)	(0.067)
East Asia	-0.009	-0.005	-0.038	0.057	0.023	0.091	-0.100**	-0.139	-0.079*	0.052	0.120	0.025
	(0.045)	(0.068)	(0.060)	(0.043)	(0.084)	(0.051)	(0.035)	(0.072)	(0.036)	(0.044)	(0.082)	(0.048)

Continued

Table 4. Continued

	Abundant soc.cap.			Mainly bonding			Mainly bridging			Scarce soc.cap.		
	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary	Full sample	Second or less	Tertiary
South and Central Asia	0.012 (0.055)	0.136 (0.111)	-0.042 (0.067)	0.029 (0.047)	0.053 (0.113)	0.021 (0.048)	-0.023 (0.042)	-0.042 (0.095)	0.013 (0.044)	-0.018 (0.047)	-0.146 (0.077)	0.008 (0.053)
Latin America	-0.117* (0.054)	-0.092 (0.056)	-0.135 (0.090)	-0.010 (0.053)	-0.104 (0.074)	0.050 (0.069)	0.115 (0.068)	0.067 (0.110)	0.174* (0.082)	0.011 (0.058)	0.129 (0.108)	-0.089 (0.052)
Highest educ. (ref. secondary sch. or less)												
Tertiary	0.065** (0.021)			0.005 (0.021)			0.009 (0.021)			-0.079*** (0.022)		
<i>N</i>	5,247	2,695	2,552	5,247	2,695	2,552	5,247	2,695	2,552	5,247	2,695	2,552

Note: Standard errors in parentheses.

* $p < 0.05$,

** $p < 0.01$,

*** $p < 0.001$.

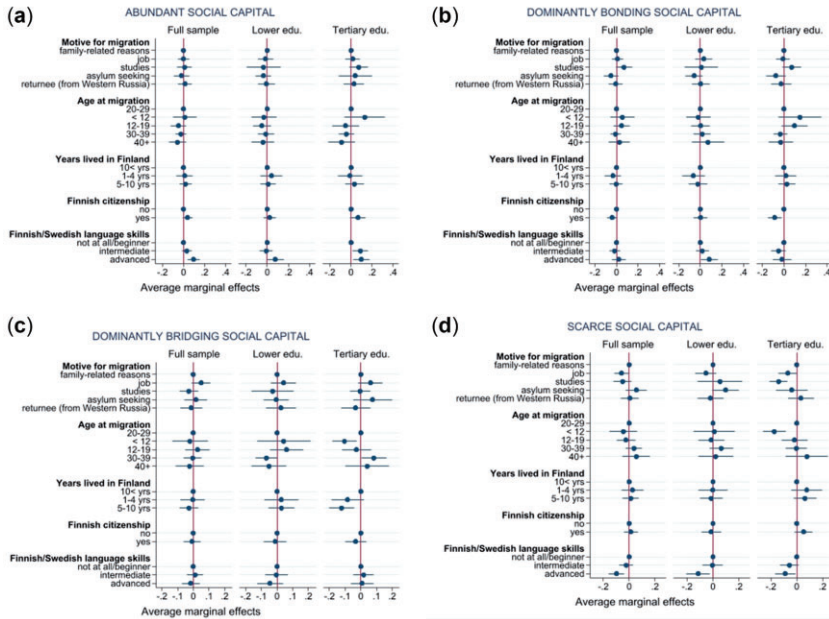


Figure 1. (a). Association of migration-related elements with abundant social capital (b) Association of migration-related elements with dominantly bonding social capital. (c) Association of migration-related elements with dominantly bridging social capital. (d) Association of migration-related elements with scarce social capital.

significant only in the full sample. Second, among the tertiary educated foreigners, migration for studies appeared to relate to a somewhat higher probability of abundant social capital and lower probability of scarce social capital, although only the latter relationship was statistically significant. Third, the overall tendency of estimates suggests that family-related motives could provide the lower education group the best setting for developing broad social relationships. By contrast, for the higher education group any other motive than family seemed somewhat more advantageous in relation to social capital accumulation. Yet, these patterns need to be approached cautiously given the low and non-significance of the estimates.

Regarding the age at the time of migration, for the higher education group migration that happened before teenage years (as opposed to migration at 20–29 years) was related to a reduced probability of remaining with scarce or mainly bridging social relationships. At the same time, even if not statistically significant, it seemed to relate to a higher probability of abundant or mainly bonding relationships in this group. Conversely, migration at the age of 30–39 years related to an increased probability of the tertiary educated migrants developing mainly bridging social capital. Among the lower education group, age at migration did not reveal any significant or systematic relationship with social capital.

Surprisingly, the length of stay in Finland did not seem to matter much for either education group. However, deemed by the magnitude of the estimates, it seemed that among the tertiary educated those who had stayed in the country for less than 10 years had a somewhat higher probability of scarce social capital and a lower probability of bridging social capital in comparison to those who had stayed in the country for more than a decade (reference category). Yet, only the negative relationship between 5 and 10 years of stay and mainly bridging social capital were statistically significant.

Similarly, Finnish citizenship revealed little importance for social capital accumulation. Only among the tertiary educated, those who had obtained Finnish citizenship had a significantly lower probability of remaining with mainly bonding social capital in comparison to those who did not have citizenship.

Of all migration-related predictors, local language proficiency was the only one with a significant association with abundant social capital. Compared to beginners or those with no knowledge of Finnish/Swedish, people with advanced-level language skills had an almost 10 percentage points higher probability of acquiring extensive social relationships and a 9–12 percentage points lower probability of having limited relationships. Both education groups revealed this pattern, although the relationship with abundant social capital was statistically significant only for the tertiary educated.

6.2.2 Association of socioeconomic status-related characteristics with social capital.

Having accomplished some level of education in Finland appeared as a significant predictor of abundant social capital and a protector against scarce social capital among the lower educated migrants (see Fig. 2a–d). In fact, the protective effect was visible also among the tertiary educated ones (and in the full sample), although for this group, the effect size was smaller and non-significant.

Of all independent variables, having a sufficient level of income turned out to be the strongest and most systematic predictor of social capital. For both education groups and the full sample, sufficient income (as opposed to insufficient) was related to 11–16 percentage point higher probability of developing abundant social capital and 13–16 percentage point lower probability of remaining with limited social relationships. All estimates were strongly significant ($p < 0.01$).

6.3 Robustness check

The above results are based on the models that included employment as part of the bridging relationships in the dependent variable and self-rated income level as one of the independent variables. Considering the direct reverse association between these two, we tested the robustness of our results with the same models but excluding employment from the dependent variable. The results of the robustness test (available upon request) produced similar results in terms of the relevance of sufficient income levels for the development of extensive and the avoidance of scarce social capital, even if the strength of the statistical significance weakened slightly. Regarding the local language skills, the estimates for the lower education group remained similar as in the main models, but those for the higher education group turned non-significant. For most other predictors, the direction of the

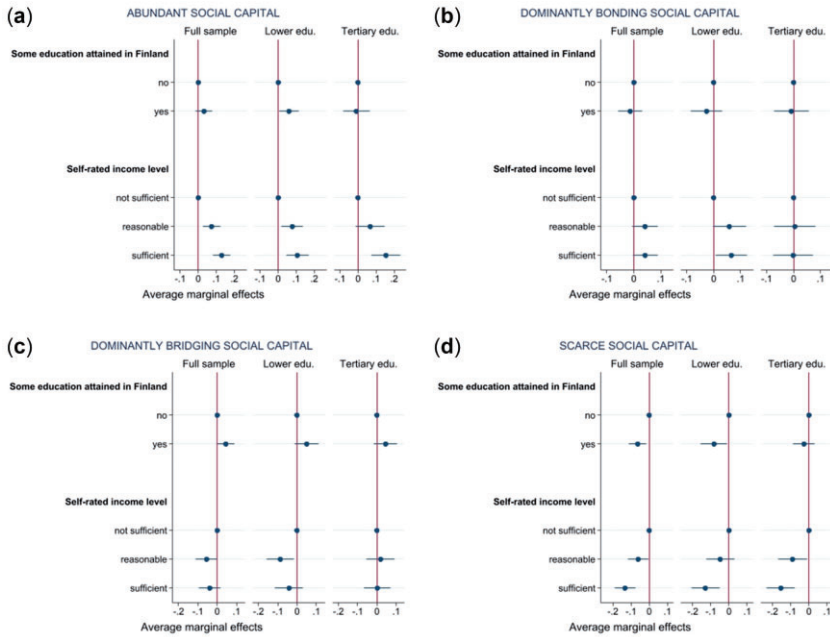


Figure 2. (a) Association of socioeconomic status-related elements with abundant social capital. (b) Association of socioeconomic status-related elements with dominantly bonding social capital. (c) Association of socioeconomic status-related elements with dominantly bridging social capital. (d) Association of socioeconomic status-related elements with scarce social capital.

estimates remained the same as in the main analyses, but the statistical significance differed to some extent.

7. Discussion

In this article, we examined which aspects may facilitate or hinder the development of abundant bonding and bridging social capital among the migrant population in their new home country—in this case, Finland. Our main aim was to identify effective ways of building social networks, hoping that such findings could inform efforts of supporting migrants’ social integration and well-being in their settlement country.

Earlier research has shown that a higher education level tends to relate to broader social networks (Martinovic, van Tubergen and Maas 2015; Patulny 2015; Koops, Martinovic and Weesie 2017). To identify potential differences in networking strategies, we conducted separate analyses for highly educated migrants and those with lower education. Building on earlier research, we hypothesised that individuals with lower education levels would be more influenced by migration and context-related circumstances to build social capital, but socioeconomic status would be more relevant for those with tertiary education whose migration is often related to their social standing.

Previous literature has mainly looked into the relevance of these characteristics for integration and ethnic heterogeneity of social relationships, whereas our focus was on their association with the composition of bonding and bridging social relationships as per Putnam's (2000) theory. To measure different combinations of social relationships, we simplified Patulny's (2015) spectrum of social integration and composed a spectrum of social capital with four categories: (1) abundant social capital, (2) mainly bonding, (3) mainly bridging, and (4) scarce social capital. Of these, the first category was considered the most favourable outcome.

Our results are in line with previous studies, which have observed that the composition of social capital differs by education level and/or socioeconomic status (e.g. Bourdieu 1986; Lin 2001; Kouvo 2010; Patulny 2015; Schnell, Kohlbacher and Reeger 2015). Overall, our study indicates that nearly one of every four migrants has abundant social capital, and roughly one-third has scarce social capital. Among the tertiary educated, abundant social capital was the most common category, while in the lower education group, the proportion of people with limited social relationships outnumbered those with abundant social capital by more than twofold.

The results revealed more similarities between the education groups than expected. We also found more elements related to avoidance of scarce rather than accumulation of abundant social capital. Possibly, our models were missing some relevant variables, such as personality, and/or more precise measurements of the socioeconomic status or contextual characteristics.

According to our results, and contrary to our hypotheses, socioeconomic status (satisfactory income and education acquired in Finland) and local language proficiency matter most for the overall composition of social capital among lower educated migrants. Sufficient income and (at least) some studies accomplished in the new home country facilitate the creation of abundant social capital and protect against scarce social relationships. A decent income also increases the likelihood of mainly bonding and reduces the likelihood of mainly bridging social capital. Advanced skills in local languages shield the lower education group against limited social relationships, but simultaneously increase the probability of developing mainly bonding social capital. Surprisingly, none of the migration-related characteristics appeared relevant for this group.

For the higher educated migrants, education acquired in Finland did not seem relevant. Instead, satisfactory income and good local language skills were the key resources facilitating abundant social capital accumulation and protecting them against limited social relationships. Contrary to our hypotheses, other migration related characteristics also appeared relevant for this group; migrating before teenage years and migrating for studies protected them from scarce social capital. Furthermore, they benefitted from several migration-related characteristics to avoid one-sided (dominantly bonding or dominantly bridging) social capital. Migration before teen years and having lived in the country for a shorter rather than a longer period (5–10 years vs. 10+ years) related to a reduced probability of mainly bridging social capital. In contrast, Finnish citizenship reduced their probability of forming mainly bonding social capital. Only migration during early middle age (30–39 years) increased the likelihood of mainly bridging social capital within the high education group.

Contrary to our hypothesis, context-related predictors did not improve the models that already included migration and SES-related variables, and therefore, this set of predictors was left out from the final models. This does not necessarily mean that the context would not matter for social capital accumulation, but it matters less than the individual characteristics.

In sum, the most relevant element for social capital accumulation appears to be socioeconomic status. Within both higher and lower education groups, a sufficient income presents the strongest and most consistent resource facilitating the development of abundant social capital and protecting against scarce social capital. The finding was confirmed by the robustness test. A sufficient income is, however, a far more common characteristic among the tertiary educated migrants than among those with less education (51% vs. 36%, respectively). Yet, it was not enough to explain the disparity between the education groups.

Earlier literature has suggested that social networks do not increase linearly over time (Lubbers et al. 2010; Lubbers, Molina and McCarty 2021). In our study, the length of stay in the host country did not reveal major importance for social capital development. It may be that the most intense development of social relationships occurs in the first years after arrival when many other adjustments are also taking place (Hendriks et al. 2018). However, with cross-sectional data, we are unable to make any suppositions in this regard. To increase the understanding of the mechanisms behind social capital formation, these processes should be explored with longitudinal data comparing migrant and non-migrant populations with different education levels.

Overall, our results suggest that roughly one in three migrants in Finland relies on limited social capital. There is a risk of these people becoming marginalised in the new society unless they are supported in building social relationships. In the context of the initial integration training, the national authorities should offer diverse possibilities for newly arrived settlers to interact with a wide range of actors in the public, private, and third sectors with whom the migrants could eventually find an area of common interest and start building social relationships. Authorities should also make every effort to expedite access to local language training and complementary education, as needed, to enhance the employability of migrants and to boost their capacity to build extensive bonding and bridging social capital.

7.1 Limitations

To put together the four categories of our dependent variable (abundant social capital, mainly bonding, mainly bridging vs. limited social capital), we used a criterion that was most stringent in relation to abundant social capital, but allowed more heterogeneity within other categories. In particular, we did not make a distinction between people who had a few social relationships and those who had none. While the latter group would need targeted attention, the group proved too small to be handled separately. Therefore, the results related to abundant social capital should be taken as the most reliable ones, while more caution should be used in relation to the remaining categories.

Our analytical sample had a slightly over-representation of migrants with tertiary education (48.6%) compared with the full original sample (46.7%). To evaluate the impact of this difference, we regressed social capital only on education using the full original sample and

the analytical sample (both with weights) separately. The differences in the estimates ranged around 0.004 percentage points across outcome categories. While we consider these differences too small to significantly affect the study results, we cannot fully verify this.

One clear limitation of our study is its reliance on cross-sectional data, which did not allow us to confirm the direction of the relationships or make causal inferences. According to earlier research, there may be a two-way relationship between local language skills and social relationships (Martinovic, van Tubergen and Maas 2015). Likewise, a two-way relationship may exist between social capital and some control variables, such as health status.

Despite the relatively large representative dataset available, we obtained only a snapshot of the dynamic social relationships without being able to fully uncover what explains the differences in social capital accumulation between the education groups. Future studies could delve further into the processes of social selection taking also into consideration personality-related characteristics to try to gain further insights on social capital development.

A longer time perspective could offer a more nuanced picture, as earlier research has found that there may be a high turnover in migrants' social networks (Lubbers et al. 2010; Lubbers, Molina and McCarty 2021). However, researchers have also observed that the overall structures of the networks tend to remain rather stable over time (Lubbers, Molina and McCarty 2021: 545). Therefore, even a cross-sectional snapshot may be enough to produce a consistent profile of the structure of social capital. However, this is an area for future studies to explore.

7.2 Conclusion

Our study highlights the importance of income and language skills in the development of migrants' social capital. While a sufficient income level is relevant for both education groups, it is more common among tertiary-educated migrants. Proficiency in local language(s) protects both groups from scarce social capital but is particularly related to abundant social capital among tertiary-educated migrants. It is important to recognise, however, that the relationship between language skills and social capital is usually bidirectional. In addition to a decent income, education acquired in the new home country supports the development of abundant social capital among lower educated migrants. Surprisingly, migration-related factors did not contribute to social capital development in this group, whereas among the tertiary-educated, several migration-related characteristics played to their advantage. Although our models identified several important predictors, they were not able to explain the social capital gap between higher and lower-educated migrants, emphasising the need for continued research in this field.

Notes

1. The official statistics refer to 'people with a foreign background' meaning people whose parents (either both or the only known parent) were born abroad.
2. Albanian, Arabic, Dari, English, Estonian, Farsi, French, Kurdish, Mandarin, Polish, Russian, Somalian, Soran, Spanish, Thai, Turkish, and Vietnamese.

3. Our analytical sample comprised 48.6% tertiary-educated migrants, compared to 46.7 % in the full sample. As education is the key grouping variable in this study, we evaluated the impact of this difference by regressing social capital with education as the sole predictor in both the original and analytical sample (both with weights). The estimates produced by the two samples presented small differences, ranging approximately 0.004 pp across outcome categories. The results indicate that the slight overrepresentation of tertiary-educated migrants in the analytical sample is unlikely to significantly affect the results of our study.
4. This category refers to the descendants of the ethnic Finns (mainly Ingrians), who were forcefully moved to the USSR at the end of the Second World War. Since 1990 and the collapse of the USSR, their descendants have had a differentiated treatment facilitating their 'return' migration to Finland (Tinguy 2003).
5. Here, 'people with foreign background' refers to individuals who were born abroad and whose both parents or the only known parent have been born abroad. These data come from the Statistics Finland publicly available registers, which have been combined with the FinMonik-survey data.
6. The questionnaire explicitly prompted for the following forms of discrimination: offensive names, offensive signs/gestures, verbal or behavioural threats of violence, property vandalism, ignorance, acts of violence, acts/attempts of sexual violence, and any other forms of threat.
7. We also tested ordered logistic regression, but as the proportional odds assumption did not hold, we opted for multinomial regression.
8. BIC imposes a greater penalty for the number of parameters (Fabozzi et al. 2014). Therefore, it tends to support the simpler model. We considered all the fit indices together to get a better sense of the overall fit. To obtain the fit indices, unweighted data had to be used.

Supplementary data

[Supplementary data](#) are available at *Migration Studies* online.

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