# Economic Integration of Immigrants from the Former Soviet

# Union in Four Countries: A Comparative Analysis\*

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#### Abstract

The major objective of the present study is to compare the economic integration of immigrants from the Former Soviet Union (FSU) in four destination countries: United States, Canada, Germany, and Israel. These four countries have been the principal destinations for immigrants from the FSU since its downfall in 1989. Each receiving country represents a different immigration regime both in terms of selection into the host country and the type and magnitude of aid and support provided to the immigrants. The focus on integration of immigrants from one origin into different countries of destination provides us with a unique opportunity to examine the impact of immigration policies and context of reception on economic integration of immigrants. Economic integration is examined on the following dimensions: participation in the economically active labor force, unemployment, under-employment, occupational attainment, self-employment and entrepreneurship, and earnings. Our target population is post-1989 immigrants from FSU with an academic degree acquired in their country of origin (compared to non-academics), and that were at the age 25 - 40 upon arrival. These immigrants are compared to native-born individuals. The data used in each of the four countries are official censuses. The estimation procedure is carried out within the framework of multivariate statistical models for men and women respectively. Despite basic similarities in incorporation of immigrants, the analysis reveals meaningful differences across societies that can be attributed both to selectivity processes and the economic system and social policies regarding the absorption of immigrants in each of the countries.

# Introduction

Currently, there is widespread agreement in industrialized societies (whether in North America or Western Europe) that economic competitiveness is increasingly linked to the quality and quantity of skilled human resources available for any given economy (Mahroum 2001:28). Consequently, countries compete among themselves by adjusting their admission policies in order to attract high-skilled immigrants therefore increasing their "brain-gain" (Iredale 1999; Mahroum 2001; Quaked 2002). Despite the increasing importance assigned by governments to attract high-skilled immigrants, theoretical approaches and empirical research on the topic has been scanty and not systematic (e.g. Salt 1992; Koser and Salt 1997; Iredale 1999; Lofstrom 2000). Immigrants from FSU arriving to the countries to be studied are characterized by high average levels of human capital – levels that are higher than those of natives.

Notwithstanding the literature on high-skilled migration, the role of societal factors (i.e. contexts of reception and governmental policies of admission and integration) in explaining the integration of high-skilled immigrants in host countries has been understudied. The major objective of the present paper is to fill this gap by comparing economic integration of immigrants from the Former Soviet Union (FSU) in four destination countries - United States, Canada, Germanv and Israel. These four countries have been the principal destinations of immigrants from the FSU since its downfall in 1989. Each receiving country represents a different immigration regime both in terms of immigrants' self-selection into the host country and the type and magnitude of aid and support provided to the immigrants. Canada has a highly selective policy of admission into the country but low level of support and assistance to immigrants after their arrival. United States has somewhat less restrictive admission policy and low level of assistance to immigrants. Germany has low levels of selectivity coupled with financial-welfare aid but low level of guidance. Finally, Israel has no selectivity in admission of Jewish immigrants and their non-Jewish relatives arriving under the auspicious of the Law of Return, but does have considerable levels of support and guidance in the process of integration into the social and economic systems. The comparison among these four destination countries provides us with an experiment-like opportunity to examine the extent to which self-selection and immigration policies affect economic integration of relatively highly-skilled immigrants.

#### **Theoretical Considerations**

The incorporation of immigrants into the host country's labor market has been the focus of substantial theoretical and empirical work (Borjas 1990; 1994, 2000; Borjas and Tienda 1993; Chiswick 1978, 1979; LaLonde and Topel 1997, Carliner 1980; for a comprehensive literature review see Raijman and Tienda 1999). The dominant approaches build on mainstream theoretical frameworks, notably the human capital and status attainment traditions in economics and sociology, respectively, as well as the structural reformulation they engendered. A theoretical approach that combines individualistic and structural approaches has been suggested by Portes and associates. They developed the concept of "modes of incorporation", namely the ways that immigrants are able to convert their human-capital into economic resources depend, to a great extent, on 'the context of reception' (Portes and Rumbaut 1990).

One important dimension of the context of reception relates to the government's migration policy and the social climate toward immigrants. State support is critical to immigrants' economic assimilation because it facilitates incorporation by providing financial resources that accelerate integration. The second dimension involves the country-specific labor market (e.g. demand for specific occupations and specific skills) and the economic cycle of the country's economy. These features are critical as they affect labor market outcomes of newcomers in the host countries. These two dimensions of the context of reception interact with immigrants' own resources thus leading to different outcomes (Portes and Rumbaut 1990). The different modes of immigrants' incorporation into host-societies are thus a result of both individual characteristics (i.e. human capital attributes and unobserved attributes relevant to economic assimilation) and structural arrangements (contexts of reception) that circumscribe the life chances, the economic opportunities, and ultimately the socioeconomic successes of immigrants.

#### Economic assimilation

Students of immigration have suggested that immigrants (regardless of specific levels of human capital) experience considerable social and economic hardships in the labor market of the host society upon arrival. They are not familiar with the new labor market; they have limited access to information and to social ties; they do not have full command of the language and their occupational skills are not always transferable to the new economic system and at times they

even face discrimination. As a result, immigrants (even high-skilled) are at a disadvantage when compared to native-born workers. Apparently, when competing for jobs in the labor market, immigrants often have to take less rewarding, low-status and low-pay jobs than those attained by the native-born populations and consequently, their economic rewards and outcomes are considerably lower than those of the native-born workers of comparable human-capital levels. With the passage of time in the host society, however, most immigrants experience upward occupational and economic mobility, hence, improvement in their socioeconomic position. Indeed, after a certain period of time in the host society immigrants were found, many times, to close the socioeconomic gaps with comparable native-born populations, especially those with high levels of human capital (Borjas 1990; 1994, 2000; Borjas and Tienda 1993; Chiswick 1978, 1979; LaLonde and Topel 1997, Carliner 1980; Lofstrom 2000).

### Self-selection of immigrants

In some cases immigrants not only reach parity with the native-born, they even surpass them. This was the main finding for immigrants to the USA who arrived in the 1950s and 1960s (Chiswisk 1978). The explanation for this "better than perfect" *assimilation* is based on patterns of immigrants' *self-selection*. Economic immigrants are not randomly selected from their source countries. Nor they randomly select their country of destination. Rather, they represent the more ambitious, motivated, risk taking, and able elements in their source countries (Chiswick 1978). This is so because only persons with such characteristics are willing to take the risky and (at least initially) costly step of migrating. Such individual traits, unmeasured in virtually all immigration research, underlie immigrants' exceptional success in the US labor market. However, it was also argued (Borjas 1987, 1990, 1994) that immigrants' selectivity on both observed and unobserved traits is not always positive, but rather depends on the relative returns to skills in source and destination counties. Therefore, highly skilled immigrants are likely to choose countries of destination where they are likely to receive the highest returns on their human-capital resources.

#### Economic Assimilation of High-skilled Immigrants

Research has shown that high-skilled migrants cannot be considered as one homogeneous category. Not all are equally successful in assimilating into the labor market of their new country.

The transferability of skills and human capital resources may differ not only from one society to another, but also across occupational labor markets. Some occupations (i.e. engineers, technicians, scientists, craftsmen) may be highly transferable while others (e.g. lawyers, accountants, doctors) are country-specific and require knowledge of laws, rules and regulations or even licensing permits (e.g. medical doctors) or depend more on language proficiency (e.g. teachers, psychologists). Certain occupations may be in great demand (e.g. nurses) yet others may be a liability because the market is saturated with them. Thus, the occupational labor market in which the immigrant worker operates may well affect their economic opportunities in the host labor market (Raijman and Semyonov 1995, 1998).

Although human-capital skills are highly influential in shaping immigrants' economic fortunes, the context of reception prevalent in a specific country mediates the effect of skills (and specific occupations) on the incorporation of immigrants into the market. The relevance of contexts of reception in affecting immigrants' modes of incorporation in the host societies became evident when immigrants arrived at periods of mass migration and economic decline like the case of the mass migration from the former Soviet Union to Israel during the early 1990s, in which the newly arrived immigrants have faced difficulties finding employment matching their qualifications (Raijman and Semyonov 1998; Weinberg 2001). Recent experience in other countries also suggests that economic assimilation of high-skilled immigrants may not be taken for granted and depends mainly on a state's migration policies, citizenship laws, economic opportunities in the labor market, and welfare institutions among others (Lewin-Epstein et al 2003). Analyzing the fate of FSU immigrants in several countries' labor markets separately is a worthwhile undertaking, if only for the challenge it might represent to classical assimilation theory. Studying them in a comparative perspective provides a strategic research design, as the comparison gives a unique opportunity to conduct a more rigorous test of the selectivity argument as well as of the role of contexts of reception discussed in recent migration research. This study will also focus on the gendered dimensions of high-skilled labor migrants' in host societies as studies conducted on the topic have systematically neglected the presence of women in skilled transnational migration (see Kofman 2000).

#### Immigrants from the FSU in comparative perspective: a brief overview

Research on post-1989 immigrants from the FSU focused on both their self-selection on observed characteristics and on their economic assimilation and integration. Most studies were conducted in Israel, where most immigrants are of Jewish origin. These studies underscore the high levels of human capital with which these immigrants arrived in Israel relative to both the FSU and Israeli populations (see e.g. Konstantinov 1995; Beenstock and Ben Menahem 1997; Eckstein and Weiss 2002). Studies of immigrant economic assimilation in Israel have documented impressive employment levels of immigrants. However, these employment levels were achieved in part at the price of occupational downgrading compared with the occupations immigrants held in the FSU (Flug, Kasir and Ofer 1997; Raijman and Semyonov 1997, 1998; Weinberg 2001; Eckstein and Weiss 2002; Stier and Levanon 2003). With respect to earnings assimilation of post-1989 immigrants, available evidence cast doubt on their ability to reach earnings convergence with natives (Eckstein and Weiss 2002; Cohen and Haberfeld, 2007). Nevertheless, popular and scholarly beliefs advance the notion that these immigrants are well on their way to full economic assimilation in the Israeli labor market (e.g. Beenstock and Ben Menahem 1997; Leshem 1997).

Most previous studies of FSU immigrants in the US have not focused on issues of selectivity and economic assimilation. A notable exception is Chiswick (1993, 1997) who estimated earnings assimilation of FSU immigrants. He did not distinguish between Jewish and non-Jewish immigrants from the FSU. Nor did he compare assimilation rates in US to those in other countries. He found that the initial earnings of FSU immigrants in the U.S. were low but their earnings progress was steeper than that of other immigrant groups. He also found that the economic returns to schooling were greater for immigrants from the FSU than for other immigrants.

In Germany, due to data limitations, there are only a few studies on the economic integration of post-1989 immigrants from the FSU, be it ethnic German or Jewish immigrants (Dominick 1997; Cohen and Kogan 2005; 2007; Gruber and Rüßler 2002; Kessler 1996, 1997; Schoeps et al 1996, 1999). Available evidence, however, suggests that the economic progress of ethnic Germans, both those arriving from the FSU and other East European countries is far from perfect, despite

the fact that they are the only immigrant group in Germany whose pre-migration educational and occupational qualifications are formally recognized (Zimmermann 1999; Bauer and Zimmermann 1999; Koller 1993). Significant labor market difficulties are documented for highly educated *Aussiedler* (from all of Eastern Europe), women, and ethnic Germans arriving from the FSU, all of whom face high unemployment and experience downward mobility in Germany (Greif et al 1999; Janikowski 1999; Westphal 1999).

Finally, studies conducted in Canada have shown that many of the highly trained immigrants who arrived since the early 1990s cannot work in highly paying jobs because their credentials are either not recognized or do not match Canadian standards. Consequently, they do not experience full economic assimilation in the Canadian labor market (DeVoretz 2006). In fact, while high-skilled FSU immigrants to Canada were more immediately suitable for the labor market (as compared to those who immigrated to Israel), they experienced greater difficulty in finding and maintaining employment. At the same time they were more likely to attain higher status occupations and higher earnings than their compations in Israel (Lewin-Epstein et al 2003)

Other than a few studies comparing economic assimilation of FSU immigrants in more than one country (e.g., Cohen and Haberfeld, 2007; Cohen and Kogan, 2005; 2007), most of the research on FSU immigrants' economic assimilation has focused on single-case countries providing evidence on the role of individual characteristics on the socio-economic attainment of immigrants. There is, however, a neglect of cross-national comparative studies that would permit to examine the thesis that contexts of reception and social policies have significant consequences for highly skilled immigrants' employment opportunities and patterns of occupational mobility. This, indeed, will be the contribution of this research.

# **Contexts of reception**

#### Israel and Germany: two Ethno-National States

The Federal Republic of Germany and Israel share a considerable number of similarities with respect to immigration (Levy 2002). Both countries have ethno-cultural conceptions of citizenship, and justified restrictive descent-based migration policies with reference to the expulsion or persecution suffered by their co-ethnics. Consequently, neither country has elaborate

migration laws, both following, for the most part, a descent-based migration policy, whereby ethnic Germans and Jews are preferred immigrants who receive citizenship upon arrival. Both respective countries refrain from viewing ethnic Germans or Jews as "immigrants" and use different terms (*Aussiedler* in Germany and *Olim* in Israel) to distinguish them from other immigrants. The similarity between Israel and Germany with respect to immigration became most apparent in the late 1980s, when the two countries became the main destinations for FSU immigrants. Specifically, between December 1989 and the end of 2002, Israel received about 950,000 FSU Jews and their non-Jewish family members (Cohen 2002), while Germany, during approximately the same years, took about 1.8 million ethnic Germans from the FSU (Münz 2002). Moreover, since 1990 Germany became an alternative destination for Jewish emigrants from the FSU and about 200,000 FSU Jews and their non-Jewish family members (Cohen 2002), while Germany, during approximately the same years, took about 1.8 million ethnic Germans from the FSU (Münz 2002). Moreover, since 1990 Germany became an alternative destination for Jewish emigrants from the FSU and about 200,000 FSU Jews and their non-Jewish family members (Cohen 2002), while Germany entered Germany as quota refugees, an option open to virtually all FSU Jews.

In addition to immediate citizenship upon arrival, Germany and Israel provided these ethnic immigrants with generous programs of public assistance to facilitate their social and economic integration. The welfare support and payments for both ethnic German and Jewish migrants are considerably more generous in Germany than in Israel (Dietz 2000; Jewish Agency 2003; Münz and Ohliger 2003; Sikron and Leshem 1998). Furthermore, Aussiedler in Germany enjoy greater recognition of educational credentials acquired in the FSU. This should have positive consequences for their labor market prospects in Germany, a country well known for the strong signaling power of educational credentials (Müller et al 1998), labor market rigidity (OECD 1999), and institutional barriers for immigrants without recognized legal status, above all, German citizenship (Heckmann 2003: 60). Jewish quota refuges, however, do not enjoy the same degree of recognition for their educational credentials and labor force experience from abroad. Consequently, even though FSU ethnic Germans and Jews arriving in Germany enter the same labor market, the former, possessing German citizenship and profiting from their educational credentials being recognized, should have access to a wider range of employment opportunities, including public sector employment (e.g. teaching), and fewer hurdles to self-employment. In addition, in 2001 Germany started a so-called 'green card' initiative allowing foreign specialists in information technologies (IT) to come and work in the country for a certain length of time (Werner, 2001; Stalker, 2002). Overall in years 2000-2003 15,658 persons were employed according to the 'Green card' initiative, 1,927 of them came from the European part of the former Soviet Union. Despite being able to attract a large number of specialists, the 'green card' program until 2005 contained a number of caveats preventing some bright people of coming to Germany and instead diverting them to the USA and Canada. Among them are the limitation to 5-year stay and difficulties in becoming self-employed.

#### Canada and the United States

Canada and the U.S. are similar in several respects. First, these North American countries share an ideology, and to some extent, an identity as immigrant societies and both are viewed as liberal market economies. Second, despite this historical legacy and despite being market economies both have imposed somewhat restrictive immigration policy regimes. Canada has an explicit selection policy or "points system" under which various selection criteria it uses to admit highly skilled immigrants are weighed. In the last 30 years Canada has used three distinct labor market immigration models to rationalize its admission criteria. From 1967-1976 a 'human capital' model was employed. This model argued that if you selected immigrants with the maximum human capital (education, experience and language) then highly skilled immigrants would integrate into the labor market since they complemented the existing unskilled labor in the Canadian economy. From 1976 to 1989 Canada switched to a 'manpower' model. In other words, a job vacancy had to exist before a highly skilled immigrant was admitted in order to insure labor market integration. Finally, and most relevant to our study, since the 1990's to the present Canada dropped both these models and employed a 'quote share' model. According to this latter model, if 50 percent or more of immigrant admissions were in the highly skilled category then the entire admission class (family and refugee) would be self sufficient and in addition both Canadian workers would gain in real wages and the public treasury would be subsidized by these highly skilled immigrants.

Unlike Canada, the U.S. does not admit legal immigrants on the basis of an explicit point system. The broad outlines of the current system in the U.S. were laid down in the 1965 amendments to the Immigration Control Act when separate preference categories and levels of preference were established for those admitted for family reunification and those admitted for employment purposes. Currently, about three times as many immigrants are admitted under the "family sponsored" category as under the "employment-based" preference system. In addition to these two categories smaller numbers of persons are granted legal permanent residence status as refugees and on the basis of maintaining diversity of inflows in the country of origin.

Within the employment-based system, an explicit hierarchy of preference exists to favor individuals in higher as opposed to lower skilled occupations. The skill-based categories collectively account for 86% of all employment-based preferences including a numerical ceiling of 10,000 "unskilled shortage workers" compared to about 52,000 in the category of "priority workers". Finally, there is an additional policy overlay that imposes immigration ceilings on individual countries of origin. There is a clear effect of these policies on admissions of immigrants from the FSU (in the U.S. these are primarily Russian and Ukrainian citizens). In 2002, the FSU was the fifth largest supplier of legal immigrants to the US. However, fewer than 9% of FSU immigrants were admitted under the employer, skill based categories, with the large majority qualifying for admission under the family reunification provisions.

Studying (a) one ethnic group of immigrants; (b) of relatively highly skilled workers; (c) all coming from the same source country; (d) to four different destinations, is similar to *a natural experiment*. Such a research design allows us to isolate the impact of country-and-market level variables on highly skilled immigrants' self selection and their economic assimilation. We believe that a comparative study of labor market assimilation of highly skilled ethnic FSU immigrants in Israel, Germany, Canada and the US should shed light on central questions, which are important for economic assimilation theory in general and for understanding the highly skilled immigrant situation in these four countries, in particular.

#### **Expectations**

While a rigorous test of the selectivity hypothesis is beyond the scope of this research (because it would require a sample of all potential immigrants in the sending countries) much can still be learned about the choices that immigrants have made by comparing the socio-demographic characteristics of immigrants across countries. We expect immigrant's destination choices to be affected by a two-sided process. On one side, there are different levels of support extended by each receiving country as well as policies about admission and selection of entrants. On the other side, there are different levels of human capital, unmeasured qualifications, and social (e.g. family) ties of the prospective immigrants. Therefore, we expect potential immigrants to choose a destination based on an evaluation of policies of admission by receiving countries and on an evaluation of how their socio-economic profile, including access to formal and informal support

obtained through agencies and family ties, matches the constellation of attributes offered by the different receiving societies. Following this logic, we expect that those with high levels of skill and qualifications, but with limited family connections will prefer Canada as a destination (as a result of the point system and high rates of market returns to skills). Those with both high skill levels and family ties will be most likely to select the U.S. (because of family-based entry possibilities, high rates of return, and informal social support). Among others, those qualified for both entry to Israel or Germany (obviously of Jewish origin) will be inclined to select Germany if their own skills are weaker because of the very generous system of public support. Contrariwise, those with stronger skills and family ties will be more likely to opt for Israel rather than Germany as a destination.

We also expect market assimilation in terms of earnings and occupational returns on academic education and pace of the incorporation process to vary across countries. The labor market assimilation of highly skilled immigrants depends on the institutional and structural make-up of the receiving societies, in particular on immigration policies, including public assistance programs and settlement policies, as well as the structures of the host societies' labor markets. It cannot be overlooked that in relative terms the stream of FSU immigrants into Israel was substantially larger than the flow of FSU immigrants into the other three countries, which might have consequences for immigrant labor market allocation. Differences in the labor market positioning of FSU immigrants in the four countries might thus be related to local opportunity structures, including possibilities of employment within ethnic economies. As recent FSU immigrants constitute a significant proportion of the Israeli population, they might profit from opportunities offered by ethnic enclaves that could boost their employment chances but simultaneously retard their labor market mobility. To test these expectations we pooled the data for the four countries and estimated a series of standard economic assimilation models to compare trajectories of economic assimilation across the four countries. Specifically, economic integration will be examined on the following dimensions: participation in the economically active labor force, unemployment, under-employment, occupational attainment, self-employment and entrepreneurship, and earnings from employment. Since incorporation of immigrant men and women differs considerably, the estimation procedure is carried out for the two genders separately.

#### **Data and Variables**

Our target populations are immigrants from FSU that arrived after 1989 at the age 25 to 40 upon arrival. The analysis differentiates between highly skilled FSU immigrants (with an academic degree) and less-educated (without an academic degree) immigrants. The immigrants were compared to native-born workers with compatible socio-demographic and occupational profiles. The lower age limit allows us to assume, in a relatively high level of confidence, that the highly skilled FSU immigrants acquired their academic education in their origin country. The major sources of data for the study are official census data in each of the four countries. **Israel**: annual Israeli income surveys (1990-2005). **Germany**: 1996, 2000 and 2004 German micro-censuses. **U.S**: 1990 and 2000 Public Use Microdata files (PUMS). **Canada**: 1996, 2001 and 2006 2 per cent Public Use Sample Tape.

The official data sets are used to estimate the socio-economic profile of the immigrants as compared to native-born and the trajectory of their economic integration into the four labor markets of the host societies. The estimation procedures are carried out within the framework of multivariate statistical models. For that purpose of the comparative analysis we pooled the data of all four countries into one file. The pooled data-set enables us to first test for direct effects of countries of destination (capturing the specific contexts of reception) and second, the interactions between country of destination and its assimilation determinants.

# Analysis and Findings Descriptive Overview

In Tables 1-2 we display the characteristics of the FSU immigrants and the native-born population in each of the four countries for men and women separately for a descriptive overview. The most striking difference between the countries is in the proportion of FSU immigrants. In Israel, FSU immigrants compose over 17 and 19 percent of the population for men and women respectively. In all other societies, the immigrants' share of the population does not reach even 1 percent of the population. In Canada for example, FSU immigrants' share is 0.13 and 0.14 percent for men and women, respectively.

The difference is also evident in number of years immigrants had spent in the country. In Israel and the US, immigrants had spent on average more than 10 years. In Germany and Canada, immigrants had begun arriving at a later time. On average, immigrants' years since immigration in Canada and Germany are approximately half of the years they spent in the US and Israel.

Variable Name		Israel		Germany		Canada		USA	
, al lubic i (allic		Im <sup>*</sup>	Nat <sup>**</sup>	Im	Nat	Im	Nat	Im	Nat
Labor Force	Unempl.	19.1	14.8	42.9	13.6	11.5	7.7	13.5	14.1
Participation	Part-time	7.9	24.6	4.3	2.9	4.5	5.4	5.7	4.8
(3 categories)	Full-time	73.0	60.6	52.8	83.5	83.9	86.9	80.8	81.0
Self-Employment (b <sup>#</sup> )		5.8	12.9	5.2	12.6	11.2	8.1	18.9	14.7
PTM (b)		26.7	32.6	14.1	34.6	41.4	29.3	43.5	33.0
SEI (0-100 scale, m)		42.7	50.8	37.3	43.3	50.1	45.2	45.1	43.6
BA (b)		45.7	32.8	40.0	28.8	68.0	22.3	61.0	31.8
Age (m)		41.9	38.5	36.4	39.9	38.5	38.7	42.9	41.6
Marital Status (b)		81.7	74.9	87.0	62.4	83.0	71.3	85.1	66.1
Metropolitan Area (b)		18.3	24.2	15.4	11.7	97.0	53.4	41.6	10.1
YSM (m)		10.3	N/A	4.8	N/A	5.8	N/A	10.8	N/A
FSU (%)		17.1		0.19		0.13		0.22	
Income (p)		41.3	51.7	39.4	50.0	41.7	50.0	50.6	50.0

 Table 1: Descriptive characteristics of immigrants and native born in four countries: Men

\*Im- characteristics of immigrants from the FSU.

\*\*Nat - characteristics of nationals residing in Israel, Germany, Canada and the US.

# b-Binary variable; m-average, % - percent in native population, p- average percentile on the native earnings distribution.

The data suggest that FSU immigrants are highly selective populations. Their educational level is considerably higher than that of the native-born population in all four countries. The immigrants are more likely than native-born to be academically educated. The difference is most pronounced in Canada and the US (the two societies that utilize highly selective criteria of admission) than in Israel. In Canada for example, 68% among immigrant men and 64% among immigrant women hold academic degree as compared to 22% among the native born population. The FSU immigrants that arrived in Israel are somewhat older than the FSU immigrants that arrived in all other countries and in Canada immigrants appear to concentrate exclusively in metropolitan centers much more than immigrants in other countries.

Variable Name		Israel		Germany		Canada		USA	
		Im <sup>*</sup>	Nat <sup>**</sup>	Im	Nat	Im	Nat	Im	Nat
Labor Force	Unempl.	22.2	26.4	57.3	31.8	28.6	21.6	32.0	26.1
Participation	Part-time	39.7	21.1	20.4	25.9	16.3	20.1	15.2	16.8
(3 categories)	Full-time	38.1	52.5	22.3	42.3	55.2	58.3	52.8	57.1
Self-Employment (b <sup>#</sup> )		4.7	3.0	5.5	6.1	9.0	5.3	10.5	9.2
PTM (b)		24.0	31.0	11.8	29.4	25.4	22.2	41.1	38.4
SEI (0-100 scale)		38.2	49.7	36.3	44.8	48.6	47.9	41.6	45.5
BA (b)		48.0	36.8	42.6	20.0	64.4	22.6	64.8	34.6
Age (m)		42.1	38.6	36.5	40.0	38.0	38.7	41.9	41.6
Marital Status (b)		67.8	72.9	87.6	69.1	83.2	73.0	81.6	68.6
Child under 5* (b)		15.3	32.8	26.6	17.2	27.0	23.5	14.2	15.5
Metropolitan Area (b)		19.2	24.4	15.4	12.0	97.0	54.2	41.1	10.0
YSM (m)		10.3	N/A	4.8	N/A	5.8	N/A	10.8	N/A
FSU (%)		19.0		0.24		0.14		0.28	
Income (p)		41.4	51.9	40.4	50.0	43.6	50.0	49.6	50.0

Table 2: Descriptive characteristics of immigrants and native born in four countries: Women

\*Im- characteristics of immigrants from the FSU.

\*\*Nat - characteristics of nationals residing in Israel, Germany, Canada and the US.

# b-binary variable; m-average, % - percent in native population, p- average percentile on the native earnings distribution.

The data also reveal meaningful differences between immigrants and the native-born population in the scope of employment. As compared to native born, rate of unemployment (unemployed and economic inactive) is more pronounced among immigrants in all four countries. Unemployment is especially pronounced among immigrants in Germany regardless of gender. Mode of full-employment is more pronounced in all countries among the native born population with only one exception. In Israel, men immigrants are more likely than natives to take full time employment. Compared to native-born men, immigrant men are less likely to become self employed in Israel and Germany but more likely to become self employed in the two market societies – Canada and the US. Among women, only in Germany immigrant women are less likely to become self employed than native born women. Perhaps, due to difficulties they face in the labor market of the host country, mode of self employed is utilized by immigrants as an alternative channel for economic mobility.

Despite their high level of education, immigrants in Israel and Germany are underrepresented, as compared to the native-born population, in professional, managerial and scientific technical occupations (the high status and lucrative jobs). Likewise, the average occupational status score of immigrants in Germany and Israel is substantially lower than that of the native born population. In Canada and the US, however, average socioeconomic status and representation of immigrants in the high status (professional, managerial and technical) occupations are higher than that of the native residents, especially among men. Regardless of gender, the findings reveal that the earnings of FSU immigrants are substantially lower than the earnings of native-born employees in Israel, Germany and Canada but roughly equal to the native born in the United States.

#### Multivariate Analysis

Since immigrants differ not only in their socio-demographic attributes, labor market characteristics, and labor market outcomes from the native-born populations but also across countries, it is important to examine labor market performance of immigrants as compared to native born while controlling for variations in individuals' characteristics and variations across countries. To this end, we pooled the four-country data files into one data set and estimated a series of multivariate models predicting, respectively, participation in the labor force, type of occupational attainment, and earnings. Two models are estimated for each employment, dependent variable. In the first model, we let the dependent variable be a function of individual attributes, immigration status, years since migration, and a set of dummy variables representing country of residence (as control variables). In the second model, we added interaction terms between immigration status and country of residence, years since migration and country of residence, and immigration status and education. The interaction terms enable us to examine whether being immigrant exerts differential impact on labor market activity or on labor market outcomes across countries and the interaction term between education and immigrant status (BA from the FSU) enables us to estimate whether academic education among immigrants differentially affects employment mode and labor market outcomes.

In sum, two sets of coefficients are of main interest to us in the context of the assimilation of relatively highly-skilled immigrants in different destinations. These two sets will be part of all the models of labor market outcomes to be estimated. First, the three coefficient summarizing the impact of immigrants' skills on assimilation, namely these of the immigrant indicator (FSU Immigrant), which compares low-skilled natives and immigrants; the coefficient of BA from the

FSU, which compares highly skilled FSU immigrants and low-skilled natives; and the coefficient of BA which compares highly-skilled and low-skilled natives.

The second set of coefficients captures the impact of the context of reception on immigrants' assimilation. This set is divided into three. First, the coefficients of the interactions between destination and immigrant indicator (FSU), which estimate the across-country differences in the reception of immigrants; second, the coefficients of the interaction terms between destination and immigrants' tenure (YSM) at destination, which tell us about the changes in the various assimilation dimensions as immigrants accumulate more experience in the different destinations; and third, the country coefficients, which capture the unobserved attributes of the reception context.

#### **Modes of Employment**

In Table 3, we display results of two multinomial logit regression equations predicting the likelihood of being part time employed and full-time employed, respectively, as compared to those not employed (including unemployed and those who are economically inactive). In each of the equations, the likelihood for specific mode of labor market activity (i.e. part time, full-time) is estimated in comparison to being not employed.

The analysis reveals that having academic education is likely to increase odds for part time employment (as compared to not being employed) but the effect of academic education on part time employment is less pronounced among FSU immigrants, as evident by the negative coefficient for FSU BA education for both men and women. However, the FSU BA penalty is much higher both in absolute and relative terms among women than among men. FSU immigrants with no BA have lower odds of being part-time employed as compared to native-born with no BA, as evident by the negative coefficient of FSU. Relative odds for part-time employment of immigrants in Israel (for both men and women) and in the US (for men only) are similar to those of natives, and lower than natives in Canada and Germany. The average relative odds for part-time employment among immigrants, however, are likely to increase in all countries with years since migration (the effect of years since migration is positive and significant). When considering the interactions of YSM and country, we learn that the odds of having part-time

employment with tenure at destination (YSM) rise the most for both men and women in Germany, followed by the US and Canada. Finally, the odds of being partially employed (versus not employed) tend to increase with age (although the relations tend to be curve-linear). The odds are likely to be higher among married persons but to be lower among mothers to young children.

The equations estimating likelihood for full-time employment (compared to no employment) reveal that academic education is likely to increase odds for full-time employment but the impact of education on odds of full employment is more pronounced among native-born than among immigrants. Still, immigrants with a BA from FSU have a better chance to get full-time employment than immigrants with no BA. The latter group shows lower odds for fullemployment (as compared with natives with no BA). That is, immigrants are less likely to be fully employed than comparable native born. Immigrants' odds for full time employment are highest, relative to other immigrants, in Germany (for men) and the US (for women) and lowest in Canada for both men and women. The relative odds for full-time employment are likely to increase with passage of time in the new country (the effect of years since migration is positive although not significant in all equations). Similar to the results of part-time employment, the odds of having full-time employment with tenure at destination (YSM) rise the most for both men and women in Germany, followed by the US, and lowest in Canada and Israel. Finally, odds for fulltime employment tend to increase with age and to be lower among married women and among mothers to young children but to be higher among married men. This finding reflects, perhaps, gender differences in terms of traditional household responsibilities.

# Table 3: Multinomial logit regression equations predicting modes of full-time and parttime labor force participation (ref. not in labor force) in four countries

Labor Force	Women			Men				
Participation	Model	1	Model	2	Model	3	Model 4	
			with Interac	ctions			with Interac	ctions
	B(SE)	Exp(B)	B(SE)	Exp(B)	B(SE)	Exp(B)	B(SE)	Exp(B)
Part Time								
Constant	-1.185 (.055)		-1.226(.055)		-3.694(.085)		-3.727(.085)	
Age	.082 (.003)	1.085	.082 (.003)	1.085	.095(.004)	1.099	.094(.004)	1.099
Age squared	001 (.000)	.999	001(.000)	.999	002(.000)	.998	002(.000)	.998
Married	.167 (.005)	1.182	.168(.005)	1.183	1.104(.007)	3.018	1.105(.007)	3.020
Child under 5*	808 (.006)	.446	808(.006)	.446				
Metropolitan Area	.211 (.006)	1.235	.212(.006)	1.236	.139(.008)	1.149	.139(.008)	1.149
Academic Degree (BA)	.687 (.005)	1.988	.687(.005)	1.988	.900(.009)	2.461	.901(.009)	2.462
BA from the FSU	738 (.075)	.478	696(.079)	.499	454(.138)	.635	428(.138)	.652
Years since migration (YSM)	.094 (.008)	1.099	.019(.016) <sup>n.s</sup>	1.019	.117(.014)	1.124	$(.024(.033)^{n.s})$	1.024
FSU immigrant	982 (.083)	.375	$.048(.182)^{n.s}$	1.049	-1.383(.152)	.251	176(.383) <sup>n.s</sup>	.838
Germany	190 (.025)	.827	146(.026)	.864	.149(.043)	1.161	.189(.044)	1.208
Canada	.883 (.025)	2.417	.926(.026)	2.524	3.997(.042)	54.417	4.034(.043)	56.480
USA	491 (.025)	.612	447(.026)	.640	.678(.042)	1.970	.716(.043)	2.046
YSM Germany			.262(.035)	1.299			.262(.072)	1.299
YSM Canada			.088(.029)	1.092			.096(.048)	1.100
YSM USA			.053(.021)	1.054			.010(.041) <sup>n.s</sup>	1.010
FSU Germany			-2.281(.265)	.102			-2.361(.553)	.094
FSU Canada			964(.240)	381			-1.371(.438)	.254
FSU USA			968(.230)	.380			369(.467) <sup>n.s</sup>	.692
Full Time								
Constant	.799 (.050)		.694(.051)		-2.871(.059)		-2.968(.060)	
Age	.011 (.002)	1.011	.011(.002)	1.011	.150(.003)	1.162	.150(.003)	1.161
Age squared	.000(000)	1.000	.000(.000)	1.000	002(.000)	.998	002(.000	.998
Married	291(.005)	.748	290(.005)	.748	1.265(.005)	3.541	1.266(.005)	3.548
Child under 5*	996(.006)	.369	996(.006)	.369				
Metropolitan Area	034(.006)	.966	033(.006)	.967	.006(.008)	1.006	$(.007(.008)^{n.s})$	1.007
Academic Degree (BA)	.831(.005)	2.295	.831(.005)	2.295	1.030(.007)	2.802	1.031(.007)	2.804
BA from the FSU	354(.066)	.702	251(.069)	.778	656(.086)	.519	596(.087)	.551
Years since migration (YSM)	.120 (.007)	1.128	.022(.014) <sup>n.s</sup>	1.022	.137(.009)	1.147	$002(.016)^{n.s}$	.998
FSU immigrant	-1.268(.076)	.281	.384(.159)	1.468	-1.463(.092)	.231	.786(.190)	2.194
Germany	$.041(.024)^{\text{n.s}}$	1.042	.149( .025)	1.161	1.474(.024)	4.369	1.582(.024)	4.865
Canada	269(.024)	.764	163( .025)	.850	858(.025)	.424	755(.025)	.470
USA	.429(.023)	1.535	.536( .025)	1.710	1.352(.023)	3.867	1.457(.024)	4.292
YSM Germany			.207( .033)	1.229			.290(.037)	1.337
YSM Canada			.028(.035) <sup>n.s.</sup>	1.028			.103(.057) <sup>n.s</sup>	1.108
YSM USA			.096(.017)	1.101			.054(.022)	1.056
FSU Germany			-2.821(.237)	.060			-4.215(.249)	.015
FSU Canada			-1.357(.258)	.257			-2.288(.414)	.101
FSU USA			-1.932(.191)	.145			-1.643(.247)	.193

\*Child under 6 in Canada

*Note:* Table shows b values with standard errors in brackets and exponential (b) for calculating the probability of outcomes; significant at 99%

Table 4 displays results of two logit regression equations, one for men and one for women, predicting relative odds for self employment as compared to salaried employment among fee economically active populations. Surprisingly, odds for self-employment are higher among FSU immigrant men with academic education than among natives of similar education. Furthermore, among FSU men academic education has a positive impact on the likelihood of self-employment as compared with salaried work. We believe these results may represent differential strategies adopted by professional men and women in choosing self-employment as a channel for economic mobility. Similarly, immigrant men with no BA have a higher probability of being self-employed as compared with natives of similar levels of education (the coefficient of FSU immigrant is positive). Relative odds for immigrants' self employment are highest in Israel and lowest in the US and Canada. With passage of time, self employment is likely to decline among the immigrant men. Finally, other things being equal, odds for self-employment tend to increase with age and among married persons and among mothers to children are more attracted to self-employment than others.

# Table 4: Logit regression equations predicting self-employment versus salaried employment(ref. self-employment) in four countries

	Women				Men				
	Mod	lel 1	Mod with Inte	el 2 ractions	Mode	el 3	Mode with Inter	el 4 actions	
	B(SE)	Exp(B)	B(SE)	Exp(B)	B(SE)	Exp(B)	B(SE)	Exp(B)	
	\$ <i>t</i>	• 、 /	, <i>í</i>	• • •		• • •		• • •	
Constant	7.622 (.093)	2042.103	7.541 (.094)	1884.417	5.718(.069)	304.322	5.616(.069)	274.907	
Age	199 (.004)	.820	199 (.004)	.820	159(.003)	.853	159(.003)	.853	
Age squared	.002 (.000)	1.002	.002 (.000)	1.002	.002(.000)	1.002	.002(.000)	1.002	
Married	232 (.008)	.793	232 (.008)	.793	078(.006)	.925	077(.006)	.926	
Child under 5*	347 (.010)	.707	347 (.010)	.707					
Metropolitan Area	.026 (.009)	1.027	.027 (.009)	1.028	.117 (.007)	1.124	.119 (.007)	1.127	
Academic Degree (BA)	179 (.007)	.836	179 (.007)	.836	146 (.005)	.864	146 (.005)	.864	
BA from the FSU	113 (.122) <sup>n.s</sup>	.893	002 (.124) <sup>n.s</sup>	.998	.334 (.098)	1.397	.541 (.101)	1.718	
Years since migration (YSM)	002 (.012) <sup>n.s</sup>	.998	134 (.044)	.875	055 (.011)	.946	199 (.042)	.819	
FSU immigrant	.188 (.154) <sup>n.s</sup>	1.207	2.297 (.572)	9.946	.562 (.135)	1.754	3.273 (.557)	26.384	
Germany	078 (.046) <sup>n.s</sup>	.925	.003 .(.048) <sup>n.s.</sup>	1.003	.166 (.032)	1.181	.269 (.032)	1.308	
Canada	.080 (.046) <sup>n.s</sup>	1.083	.161 (.048)	1.175	.554 (.032)	1.740	.657 (.032)	1.928	
USA	455 (.046)	.635	373 (.047)	.688	.035 (.032) <sup>n.s.</sup>	1.035	.138 (.032)	1.149	
YSM Germany			.085 (.078) <sup>n.s.</sup>	1.089			.291 (.088)	1.338	
YSM Canada			.247 (.063)	1.280			.168 (.050)	1.183	
YSM USA			.118 (.047)	1.125			.147 (.044)	1.159	
FSU Germany			-1.882 (.742)	.152			-2.939 (.721)	.053	
FSU Canada			-3.365 (.635)	.035			-3.741 (.605)	.024	
FSU USA			-2.126 (.600)	.119			-3.216 (.584)	.040	

\*Child under 6 in Canada

*Note:* Table shows b values with standard errors in brackets and exponential (b) for calculating the probability of outcomes; significant at 99%

#### **Occupational Attainment**

Tables 5 and 6 pertain to occupational attainment in the form of attainment of the professional, managerial and technical occupations (the high-status, lucrative academic, scientific, professional and technical jobs, hereafter: PTM) and in the form of socio-economic status of occupations, respectively. The data in Table 5 demonstrate that odds for employment in PTM occupations among men are likely to rise with education. Native men with an academic degree have the highest odds, followed by FSU immigrant men with an academic degree, native men with no academic degree, and FSU immigrant men with no academic degree. Among women, a BA from FSU lowers the odds of having a PTM job as compared with native women with no BA. This gender-based difference may be rooted in differential type of PTM occupations available for men and women. Other things being equal, FSU immigrants with no BA have considerably lower odds to attain PTM occupations than comparable native-born (as evident by the negative and large coefficients for immigrant status in all equations). In this respect, highly skilled immigrants are faced with a much better situation than low-skilled immigrants. The lowest odds for PTM employment among FSU immigrants are found in Israel and Germany for both men and women. Odds for employment in PTM jobs among immigrants tend to rise with the passage of time (as evident by the positive impact of years since migration). Apparently, with the passage of time in the new country immigrants improve their ability to convert human-capital skills and resources into occupational positions and hence, to close the gaps with native-born population. That is, immigrant men and women do experience occupational mobility over time. These over-time odds rise the most in Israel and Germany. Finally, the relative odds are likely to rise with age, higher among married persons but lower among mothers to young children.

Table 6 pertains to occupational socioeconomic status (SEI) as a form of labor market outcome. As expected, the findings are quite similar and quite consistent with those observed in Table 5. Other things being equal, immigrants are at a disadvantage in attainment of occupational status when compared to native-born. The SEI of immigrants is considerably lower than that expected on the basis of their education when compared to native born populations. The loss of SEI among immigrants is quite substantial in all countries but most extreme in Israel. It should be noted, however, that with the passage of time the 'loss' of occupational status tends to decrease – the effect of years since migration on SEI is positive and significant in all equations, more so in Israel than in the other countries. With the passage of time FSU immigrants had been able to narrow the occupational gaps but in most cases, not to completely close it.

РТМ	Women				Men				
	Mod	el 1	Mode	12	Mod	el 3	Model 4		
			with Inter	actions			with Inte	eractions	
	B(SE)	Exp(B)	B(SE)	Exp(B)	B(SE)	Exp(B)	B(SE)	Exp(B)	
								• ` `	
Constant	-2.153	.116	-2.105	.122	-3.352	.035	-3.285	.037	
	(.048)		(.049)		(.050)		(.050)		
Age	.046	1.047	.046	1.047	.089	1.093	.089	1.093	
C	(.002)		(.002)		(.002)		(.002)		
Age squared	.000	.999	.000	.999	.000	.999	.000	.999	
	(.000)		(.000)		(.000)		(.000)		
Married	.052	1.053	.052	1.053	.313	1.367	.313	1.367	
	(.004)		(.004)		(.004)		(.004)		
Child under 5*	105	.900	106	.900					
	(.006)		(.006)						
Metropolitan	.142	1.153	.141	1.151	.277	1.320	.276	1.318	
Area	(.005)		(.005)		(.005)		(.005)		
Academic	1.902	6.702	1.902	6.702	2.061	7.856	2.061	7.857	
Degree (BA)	(.004)		(.004)		(.004)		(.004)		
BA from the	257	.773	333	.717	.497	1.644	.405	1.499	
FSU	(.073)		(.074)		(.091)		(.092)		
Years since	.059	1.061	.144	1.155	.045	1.046	.096	1.101	
migration (YSM)	(.007)		(.017)		(.007)		(.019)		
FSU immigrant	-1.169	.311	-2.398	.091	-1.508	.221	-2.596	.075	
	(.090)		(.219)		(.109)		(.242)		
Germany	080	.923	127	.881	135	.874	201	.818	
	(.025)		(.026)		(.026)		(.027)		
Canada	179	.836	227	.797	100	.905	167	.846	
	(.025)		(.026)		(.026)		(.027)		
USA	.033	1.033	015	.985	320	.726	387	.679	
	$(.024)^{\text{n.s.}}$		$(.026)^{\text{n.s.}}$		(.025)		(.027)		
YSM Germany			.049	1.050			.012	1.012	
			(.036) <sup>n.s.</sup>				$(.041)^{n.s.}$		
YSM Canada			160	.852			086	.917	
			(.030)				(.031)		
YSM USA			121	.886			082	.921	
			(.020)				(.022)		
FSU Germany			204	.815			.051	1.052	
			(.312) <sup>n.s.</sup>				(.330) <sup>ns.</sup>		
FSU Canada			2.362	10.610			1.790	5.987	
			(.283)				(.288)	<u> </u>	
FSU USA			1.842	6.312			1.821	6.175	
			(.235)				(.267)		

# Table 5: Logit regression equations predicting employment in Professional, technical, and managerial occupations (PTM) in four countries (ref. non-PTM jobs)

\*Child under 6 in Canada

*Note:* Table shows b values with standard errors in brackets and exponential (b) for calculating the probability of outcomes; significant at 99%

SEI		Women	Men			
	Model 1	Model 2 with Interactions	Model 3	Model 4		
	b(SE)	b(SE)	b(SE)	b(SE)		
~						
Constant	43.709	44.424	28.498	28.562		
	(.461)	(.468)	(.492)	(.443)		
Age	014	014	.423	512		
	(.021) <sup>n.a.</sup>	(.021)	(.022)	(.019)		
Age squared	.000	.000	005	006		
	(.000)	(.000)	(.000)	(.000)		
Married	1.006	1.002	5.929	5.2/1		
	(.041)	(.041)	(.046)	(.037)		
Child under 5*	-1.362	-1.366				
	(.053)	(.053)	4 220	4 707		
Metropolitan Area	2.801	2.792	4.229	4./2/		
	(.049)	(.049)	(.056)	(.045)		
Academic Degree (BA)	16.048	16.046	24.169	22.656		
	(.039)	(.039)	(.042)	(.037)		
BA from the FSU	5.588	4.606	2.544	2.155		
	(.62/)	(.638)	(./01)	(.6/5)		
Y ears since migration (Y SIVI)	.658	1./15	.529	1.093		
	(.004)	(.130)	(.0/1)	(.137)		
FSU immigrant	-20.734	-33.0/0	-10.999	-20.907		
Comment	(./05)	(1.485)	(.805)	(1.509)		
Germany	-1.437	-2.100	-3.1/3	-4.001		
Consta	(.255)	(.240)	(.238)	(.241)		
Canada	11/	842	-4.043	-5.250		
	(.250)	(.243)	(.237)	(.239)		
USA	-2.310	-3.233	-3.273	-0.270		
	(.220)	046	(.231)	(.2.57)		
YSM Germany		940		$(401)^{ns}$		
		1 267		(.401)		
YSM Canada		(250)		(240)		
		1 201		(.240)		
YSM USA		(156)		705		
		17 853		(.107)		
FSU Germany		(3.280)		(3.101)		
		22 908		13 567		
FSU Canada		(2 182)		(2 126)		
		17.692		14309		
FSU USA		(1771)		(1940)		
		(1.//1)		(1.770)		

# Table 6: Linear (OLS) regression equations predicting occupational status (SEI) in the labor markets of four countries

\*Child under 6 in Canada Note: Table shows b values with standard errors in brackets; significance at 99%

#### **Attainment of Earnings**

Table 7 includes equations predicting earnings of economically active men and women. In Model 1 we added hours of work to the set of the predictors and in Model 2 we also added PTM occupations as a possible control for the distinction between high and low status occupations. Income is measured in terms of percentile rankings to ensure comparability across countries. The equations are estimated, separately, for men and women.

The data displayed in Table 7 reveal, quite clearly, that earnings are likely to rise with age (a curve-linear relation) and it is likely to be higher among workers holding PTM jobs, regardless of gender. Interestingly, while earnings are likely to be significantly higher among married men and lower among married women, earnings of women with young children tend to be higher than earnings of economically active women with no young children.

Immigrants do pay an economic penalty. Other things being equal, the earnings of immigrant men and women are lower than the earnings of native born. Immigrants, on average, are located more than 20 percentiles lower than natives on the earnings distribution. Furthermore, immigrants with an academic degree do not earn more than natives of equal attributes who do not have an academic degree. In fact, highly-educated woman immigrants earn less than native women with no BA. Although the earnings penalty tends to decrease with the passage of time, only in Canada the economic gap between immigrants and native-born seems to disappear within 10 years time span for both men and women (as calculated on the basis of the main effects and interaction between years since migration and country). Apparently, in Canada, a country which implemented the most selective immigration policies, immigrants are able to improve their earnings faster than in all other countries.

Table 7: Linear regression equations (OLS) predicting earnings of salaried workers(percentiles) in four countries

Earnings		Women	Men			
e e	Model 1	Model 2 with Interactions and PTM	Model 3	Model 4 with Interactions and PTM		
	b(SE)	b(SE)	b(SE)	b(SE)		
Constant	-104.903	-99.390	-139.753	-136.108		
	(.605)	(.597)	(.623)	(.619)		
Age	2.625	2.487	4.049	3.918		
	(.026)	(.025)	(.025)	(.024)		
Age squared	027	026	043	042		
Manufa 1	(.000)	(.000)	(.000)	(.000)		
Married	-1.820	-2.318	11.4/6	(048)		
Child under 5*	(.031)	(.030)	(.049)	(.048)		
Cliffa under 5	(070)	( 068)				
Metropolitan Area	7 691	7 260	7 185	6 448		
nieu oponium r neu	(.063)	(.061)	(.059)	(.058)		
Academic Degree (BA)	18.900	13.424	19.646	13.554		
	(.049)	(.053)	(.047)	(.052)		
BA from the FSU	-4.686	-3.734	1.058	.531		
	(.815)	(.815)	$(.877)^{n.s.}$	(.884) <sup>n.s.</sup>		
Years since migration (YSM)	1.128	.883	.965	.501		
	(.085)	(.152)	(.089)	(.167)		
FSU immigrant	-21.688	-23.475	-25.478	-23.083		
	(1.012)	(1.727)	(1.035)	(1.887)		
Hours of Work (In)	25.886	24.828	22.507	21.680		
Germany	(.032)	(.030)	(.079)	(.077)		
Germany	(279)	(288)	(294)	(309)		
Canada	964	484	2 728	3 330		
Culludu	(.280)	$(.289)^{n.s.}$	(.295)	(.310)		
USA	-3.892	-5.696	541	.029		
	(.275)	(.285)	$(.291)^{n.s.}$	$(.307)^{n.s.}$		
PTM		12.283		12.665		
		(.050)		(.050)		
VSM Germany		344		.541		
		(.440) <sup>n.s.</sup>		(.425) <sup>n.s.</sup>		
YSM Canada		1.096		1.550		
		(.325)		(.339)		
YSM USA		.283 (.194) <sup>n.s.</sup>		.405 (.211) <sup>n.s.</sup>		
FSU Germany		14.993		5.710 (2.220) <sup>n.s.</sup>		
		(5.322)		(5.230)		
FSU Canada		$(2.879)^{\text{n.s.}}$		(2.840)		
		5.584		2.994		
F50 USA		(2.228)		$(2.407)^{n.s.}$		

\*Child under 6 in Canada, Note: Table shows b values with standard errors in brackets; significance at 99%

#### Conclusions

The major objective of the present study was to compare and evaluate economic integration of FSU immigrants in four countries of destination: Canada, the US, Germany and Israel. The four host countries differ considerably in their criteria for selecting immigrants and in the support and help they provide immigrants to better incorporate into the social and economic systems. While Israel and Germany are less selective in terms of qualifications of the immigrants they receive (the two countries are likely to take immigrants on the basis of ethnic criteria), the US and especially Canada tend to emphasize qualifications and skills of immigrants and their potential contribution to society and the economy. The variation in admission policies are also reflected in the relative size of the FSU immigrants that arrived in each society. Israel had accepted a larger number of FSU immigrants than any other society. During a short period of time the FSU immigrants had not reached even one percent. Part of the cross-country differences, thus, should be attributed to the unique circumstances associated with incorporation of a massive influx of immigrants to Israeli society and should be understood from this perspective as well.

On basis of the cross-country differences in selection of immigrants and in the system of support we expected to find differences across countries in the incorporation of immigrants into the labor markets of the four societies. The analysis we performed revealed considerable similarities across countries but also some meaningful differences.

This group of FSU immigrants can be characterized as highly-skilled due to its exceptionally high level of education. In all four societies FSU immigrants were characterized by higher level of education than the native-born population. More specifically, many more of the FSU immigrants had academic training than the local population. The data reveal that the most selective group of immigrants (in terms of educational credentials) had arrived in Canada followed by the US, Israel, and Germany. The two countries that had not imposed selectivity criteria that are based on skills and qualifications had received populations that are less selective in terms of academic training as compared to Canada and the US. In Canada, the proportion of immigrants with academic degree was highest and the educational gap between the immigrants and the native-born population was the widest. From this point of view, Canada had gained, more

than any other country, immigrants with high human capital resources and with the greatest potential for making a contribution for economic productivity.

Despite their high educational level, all immigrants had faced difficulties in integrating into the labor market of the host society as they had not been fully integrated yet into the economy. Being from the FSU hampers successful integration in all aspects of labor market activities on which the present study had focused. That is, the full potential of the immigrants' productive capacity had not been utilized yet in all four countries. This is clearly evident in several aspects of economic participation and can be detected on several dimensions of labor market activities and labor market outcomes, including mode and scope of employment, occupational attainment and earnings. The difficulties and disadvantages immigrants face in the labor market of the host societies, however, tend to decrease with the passage of time. The summary effects of the main individual-level variables and country-level variables on various aspects of labor market activities and labor market outcomes are presented in Table 8.

First, the data reveal, consistent with expectations, that in all countries, with the exception of Israel, FSU immigrants had lower odds for full time (as well as part time) employment versus 'no employment' when compared to the native born population. That is, despite their high level of education, the likelihood of immigrants not to be employed (i.e. to be either unemployed or economically inactive) is higher than that of the native born population and their likelihood of being fully employed are lower than that of the native born population. The relative odds for immigrants' full employment are higher in Israel than in the other countries. This difference is rooted perhaps in the support, aid and guide that immigrant receive from government agencies that are not available in market societies such as the US and Canada. Surprisingly, more immigrants are likely to become self employed in Israel or in Germany rather than in the market economics of the US and Canada. Perhaps self-employment and economic entrepreneurship of immigrants are also enhanced by aid and guidance provided by public agencies.

	Dependent variable							
	LFP (PT/FT) (W/M)	Self- Employment (W/M)	PTM (W/M)	SEI (W/M)	Earnings (W/M)			
Academic Degree (BA)	(++/++)	(-/-)	(+/+)	(+/+)	(+/+)			
BA from the FSU	(/)	(n.s./+)	(-/+)	(+/+)	(-/n.s)			
Germany <sup>1</sup>	(-+/++)	(n.s./+)	(-/-)	(-/-)	(+/+)			
Canada <sup>1</sup>	(+-/+-)	(+/+)	(-/-)	(-/-)	(n.s./+)			
USA <sup>1</sup>	(-+/++)	(-/+)	(n.s./-)	(-/-)	(-/n.s.)			
FSU immigrant (in Israel)	(n.s.+/ n.s.+)	(+/+)	(-/-)	(-/-)	(-/-)			
FSU Germany <sup>1</sup>	(/) the most negative effect	(-/-)	(n.s./n.s.)	(+/+)	(+/n.s.) least negative for women			
FSU Canada <sup>1</sup>	(/)	(-/-)	(+/+)	(+/+) the least negative effect for women	(n.s./-) most negative for men			
FSU USA <sup>1</sup>	(/n.s)	(-/-)	(+/+)	(+/+) the least negative effect for men	(+/n.s.)			
Years since migration (YSM) (in Israel)	(n.s. n.s./n.s. n.s.)	(-/-)	(+/+)	(+/+)	(+/+)			
YSM Germany <sup>1</sup>	(++/++) the most positive effect	(n.s./+)	(n.s./n.s.)	(-/n.s)	(n.s./n.s.)			
YSM Canada <sup>1</sup>	(+ n.s./+ n.s.)	(+/+)	(-/-)	(-/-)	(+/+) highest assimilation rate			
YSM USA <sup>1</sup>	(++/n.s. +)	(+/+)	(-/-)	(-/-)	(n.s./n.s.)			

 
 Table 8: Summary of the major effects of the individual-level and country-level variables on
 five aspects of labor market activity /outcome in four countries

 $^1 In \ comparison \ to \ Israel.$  $W/M - influence \ of the effect for women and men respectively; n.s. -insignificant$ 

When taking into consideration the high level of education among FSU immigrants as compared to the native born population, it becomes apparent that the immigrants are disadvantaged in attainment of occupational positions and of earnings in all four host countries and regardless of gender (in Germany the disadvantage of immigrant women in attainment of earnings is least pronounced). The occupational disadvantages (either in terms of access to high status-lucrative professional and managerial occupations or in terms of occupational socio-economic status points) are most substantial in Israel and Germany (the two countries that received the least selective and the largest number of immigrants) and least substantial in the US and Canada (the two more selective market economies). Apparently, both in Israel and Germany FSU immigrants had been less successful in converting their human capital resources and occupational skills (especially education) into suitable rewarding jobs than FSU immigrants in Canada and the US. The economic disadvantage of immigrants is also evident in all countries when examining earnings differentials between immigrants and comparable native-born populations. In all countries immigrants had not been able to convert their educations and their position within occupations into earnings at the same rate that native born do. When estimating the earnings penalty associated with being immigrant it amounts, on average, to 15-30 percentiles on the earnings distribution of each country. This penalty, like the occupational penalty, is likely to decrease with the passage of time in the host country. The rate of decline in earnings penalty is faster in Canada – the country that applies most selective immigration criteria—than in any other society. Indeed, selection processes of immigrants have significant consequences for successful integration of immigrants and the rate of their integration into the economy of the host society.

In sum, prospects of employment for FSU highly-skilled immigrants were found to be better in Israel and Germany – countries with less selective migration policies that provide more aid and guidance to the newly-arrived immigrants. However, immigrants' economic assimilation - both in terms of occupational attainment and earnings - was found to be much more successful in the market economies that use exclusive migration policies based on immigrants' qualifications.

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