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ABSTRACT

Labor Market Segmentation and the Earnings of German Guestworkers^{*}

In this paper we study the occupational progress and earnings attainment of immigrants in Germany over time and compare them to native Germans. Our analysis is guided by the human capital and segmented labor market theories. To assess the separate effects of occupational segmentation and discrimination in the allocation of occupations and wages we conceptualize the process of earnings attainment as occurring in three stages: initial occupational achievement, final occupational achievement after the accumulation of experience, and contingent on the former, final earnings attainment. Using data from the German Socioeconomic Panel, our results indicate a high degree of initial occupational segmentation, with immigrants being less able to translate their human capital into a good first job and being channeled into first occupations of significantly lower status than natives. We also developed evidence to suggest that immigrants experienced significant discrimination in the process of occupational attainment, yielding little job mobility over time, and widening the status gap between Germans and guestworkers. Holding occupational status constant, however, we found less evidence of direct discrimination in the process of earnings attainment. Although immigrants achieved lower rates of return to technical or vocational training than natives, their wage returns to experience, hours worked, years since migration, and academic high school were greater, yielding significant earnings mobility over time.

JEL Classification: J2, J3, J4, J6, J7

Keywords: occupational achievement, earnings assimilation, human capital, labor market segmentation, international migration

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INTRODUCTION

It is well documented that foreign workers earn less than natives in the German labor market (Velling 1995; Constant 1998). Various attempts have been made to determine empirically whether these earnings differentials reflect underlying differences in human capital or ethnic discrimination in the labor market. Both effects may be expressed at either of two stages in the earnings process: in the allocation of people to occupations or in the assignment of earnings to people within occupational groups. Given that most foreigners originally entered Germany as "guests" to occupy low status jobs that natives avoided, it is not surprising that the country's occupational distribution was initially characterized by a high degree of ethnic stratification(Hoffman-Nowotny 1973; Marsden 1990; Heckmann 1992).

Over time, however, occupational sorting based on human capital occurred, and recent research suggests that both the allocation of persons to occupations and the determination of earnings within occupational groups are determined mainly by human capital characteristics (Velling 1995; Muller, Steinmann, and Ell 1998; Kalter and Granato 2002). Most of this work has employed cross-sectional data and methods, however. In this paper we revisit the issues of discrimination and labor market segmentation using a dynamic model that traces the occupational progress of immigrants over time.

THEORETICAL MODEL

Our analysis of occupational achievement and earnings attainment is guided by two competing theoretical perspectives: human capital theory and segmented labor market theory. Figure 1 presents a graphic representation of our model. Following human capital theory (Becker 1975), we assume that immigrants and natives both enter the German labor market and endeavor to convert their human capital attainments into the highest possible initial occupational status. Over time we then expect both natives and foreigners to attempt to maximize the returns to human capital by seeking better jobs, yielding an increase in occupational status over time. During the last year of observation, we measure earnings, which we assumed to be determined by human capital characteristics and conditioned on prior occupational achievement.

FIGURE 1 ABOUT HERE

In the first stage of the attainment process, we expect to observe significant ethnic stratification by occupation as predicted by segmented labor market theory (Piore 1979). Migrant workers were recruited into Germany to take unskilled and semi-skilled jobs shunned by natives (Payne 1974; Heckmann 1992). Without this infusion of foreign labor, Germany's postwar economic boom could not have continued (Kindleberger 1969). The initial segmentation between immigrants and natives in the German labor market is then subsequently reinforced by the tight link between education, training, and jobs characteristic of the labor market (Muller, Steinmann, and Ell 1998). Ethnic segmentation is observed as systematic difference in the status of initial occupations between natives and guestworkers adjusting for human capital characteristics.

As guestworkers prolong their stay in Germany, however, they acquire increasing amounts of country-specific human capital and undertake occupational mobility. If the mobility process continues to be segmented along ethnic lines, however, we will observe the persistence of significant native-foreign differentials in occupational status, and if foreigners are discriminated against in Germany's labor market, we will witness lower rates of conversion between human capital and occupational prestige. Persistent ethnic segmentation in employment and past discrimination in hiring will produce an ongoing gap in occupational status that will translate into differential earnings between natives and foreigners. Holding occupational status constant, we may also observe direct wage discrimination, which would be indicated by immigrants receiving systematically lower wage returns to human capital and occupational status than Germans. Although lower returns to human capital are consistent with a process of wage discrimination, however, they do not constitute proof, as the differential may also reflect the influence of unmeasured variables not included in the wage regression.

DATA AND METHODS

Our data come from the German Socioeconomic Panel (GSOEP), a nationally representative longitudinal survey administered by the German Economic Institute (DIW). It was launched in 1984 in the Federal Republic of Germany (West Germany) with about 12,000 respondents, some 3,000 of whom were legal immigrants. The original cohort included persons from Italy, Greece, Spain, Yugoslavia, and Turkey, the principal sources of guestworker migration prior to 1973. The first wave covered only non-institutionalized respondents, but if members of the original panel were later institutionalized they were followed and kept in the survey.

Each year the GSOEP interviews members of baseline households who are 16 or older at the survey date. Thus, the panel expands over time as children within households of the original panel grow up and turn 16. The most important feature of the GSOEP from our viewpoint is that it over-samples immigrants and provides data on certain of their pre-migration characteristics (SOEP Group 2001). From the 1984-1997 waves of the survey we selected all persons aged 16 or older who were

ever employed during any of the 14 waves, yielding wage and occupational data on 4,318 guestworkers and 11,135 Germans.

Unfortunately, the GSOEP does not allow us to observe a respondent's first job in the labor market. Except for those who turned 16 after the panel's inception, we only observe the status of the occupation they held during the first year of the survey in 1984. Likewise, final occupational status is not that of the last occupation held by respondents unless they retired between 1984 and 1997. For most respondents the final occupational status is that observed during the last wave of the panel survey (or the last year of employment if they were jobless in 1997).

We measure human capital using a variety of indicators available from the GSOEP. Naturally, we consider the effects of formal schooling in Germany, dividing the sample into mutually exclusive education groups based on the level of education completed. We also measure whether the respondent received additional vocational training in Germany and the number of years of schooling that immigrants completed before arrival. Experience is measured in terms of age, years since migration, and the amount of time between first and last jobs. Finally, we include a dichotomous indicator of whether foreign respondents were fluent in German.

In seeking to measure the effects of human capital on occupational status and earnings we control for basic socio-demographic characteristics such as gender, marital status, the presence of children, and home ownership. Among immigrants we also hold constant the effects of nationality, birthplace, naturalization of children, and whether or not the respondent "feels German" (indicating a strong sentimental attachment to the host country) and whether or not that person had ever remitted funds abroad (indicating a strong behavioral connection to the homeland). Earnings are measured in terms of weekly wages (in nominal German Marks) earned by respondents and occupational status

is assessed using the international SEI score developed by Trieman (1977) and updated by Ganzeboom, de Graaf, and Treiman (1992), which is itself an internationally-normed version of a scale developed originally by (Duncan 1961).

Table 1 presents means and standard deviations for the above variables tabulated separately for Germans and guestworkers. As expected, there are significant gaps in occupational status and earnings between the two groups. Across person-years observed in the panel, the average foreigner held an occupation that provided 33.2 prestige points and 435 DM per week in wages, whereas the typical German earned 38.2 prestige points and 501 DM per week. No doubt some of these gaps stem from the obvious differences in human capital between immigrants and natives. Whereas 90% of foreigners had secondary schooling or less, the figure was only 64% for Germans, and whereas 26% of Germans had attended a technical high school and 10% had finished academic high school, only 9% and 1% of foreigners had done so, respectively. Likewise, 61% of natives had received German vocational training, compared with 16% of foreigners. In terms of experience, the average immigrant was some 8 years younger than the typical German (31.5 versus 39.6 years of age), though immigrants had been in Germany for an average of around 14 years.

About half of respondents in both groups were male, but immigrants were somewhat more likely to be married. Whereas only 53% of Germans were currently married, 61% of foreigners were in this state (58% with a spouse in Germany, 3% with a spouse at home). Immigrants were also far more likely to have children present in the household, with 61% reporting children at home compared with just 36% of Germans. Natives, however, were far more likely than foreigners to be homeowners. Nearly half of all Germans owned their home (47%) compared with just 7% of immigrants.

Despite having spent an average of 14 years in Germany, the vast majority of immigrants had not attained fluency in the German language: only 20% reported themselves as fluent in German. Interestingly, the percentage born in Germany was also 20%, suggesting that true fluency comes primarily from growing up in that country. Despite the fact that a fifth of foreign respondents were born in Germany, only 4% said they "felt German" whereas 22% reported remitting money to family members overseas. Only 16% of foreigners had attained German nationality, and only 7% reported having naturalized their children. Some 35% of immigrants held citizenship in another country of the European Union, 33% were Turkish, and 16% were Yugoslav. In general, these immigrantspecific measures do not suggest a high degree of integration within German society or the labor market.

DETERMINANTS OF INITIAL OCCUPATIONAL STATUS

Table 2 shows coefficients of two OLS equations estimated to predict the status of the occupation that Germans and foreign workers held when the GSOEP began in 1984 (or when they took their first job thereafter). The coefficients represent the number of prestige points generated by a unit change on the independent variable in question. As can be seen, foreigners generally experienced fewer status returns per unit of human capital on their initial occupation. Whereas completing a technical high school garnered Germans 5.7 additional prestige points, it got foreigners a mere 1.2 points (a difference that is statistically significant at p<.05). Likewise, completing academic high school (Abitur) earned Germans around 12.9 prestige points on first occupation, compared with just 6 points for foreigners (again significant at p<.05). The relative rates of return to vocational training were somewhat closer but at 9.2 versus 6.6, but the rate for Germans was still significantly greater (p<.05). Foreigners did, however, earn a 1.3 point status premium for being

fluent in German, and both groups experienced about the same returns from aging: around 0.09 points per year.

TABLE 2 ABOUT HERE

Among control variables, foreign males held jobs that were of significantly lower status compared with foreign females, a gender differential that did not exist among natives. Both immigrants and natives experienced a marriage premium, but the boost was greater for guestworkers than Germans. Whereas being married increased occupational status by 4.7 points among natives, the premium was 8.6 points for immigrants with spouses in Germany and 5.3 points for those with spouses abroad. As one might expect, immigrants who had achieved German citizenship held occupations that were more prestigious (by 1.6 points) than those who did not, but surprisingly, foreign nationals who were born in Germany actually held jobs that were <u>less prestigious</u> than other foreigners (by 2.7 points). The latter finding suggests that ethnic segmentation in the labor force may, in fact, widen in the second generation.

The general impression left by the estimates in Table 2 is that immigrants are initially less able than natives to translate their human capital into occupational status within the German labor market. Results indicate that guestworkers experience significantly lower returns to education and vocational training than Germans, and the curvilinear relationship between years since migration and occupational status suggest that immigrants take on very low status jobs when they arrive and that they remain in these jobs for some time before moving upward.

DETERMINANTS OF STATUS ON LAST OCCUPATION

In Table 3 we show estimates for two equations predicting status achieved in the final occupation held by natives and foreigners (either the job held in the final year of the panel or that held in the last year of employment). Both models are estimated controlling for the status earned on the respondent's initial occupation. As can be seen, beginning occupational status plays a very strong role in determining the final occupational status achieved by both groups. Among Germans, each status point in the initial occupation yields 0.54 points on the final occupation. Among guestworkers, each initial status point yields 0.51 points on the final occupation slightly but significantly lower than the rate observed for natives.

TABLE 3 ABOUT HERE

Whatever the constraints imposed by the initial job on the final status achieved, Germans are far better able to use their human capital to attain occupational mobility than guestworkers. Whereas completing technical high school brought a 2.6-point status boost for natives, it yielded nothing for foreigners; and whereas achievement of an abitur yielded a 9-point gain for Germans, the net benefit was only 4.5 points for guestworkers. But perhaps the most startling differences in the returns to experience, which we measure as the time elapsed between the first and last job. Whereas each year of additional labor market experience yields 0.237 points of occupational status for Germans, it brings just a 0.067 increase for guestworkers. Moreover, we detect no significant effect of years between migration and first job in determining the final occupational status of foreigners. Finally, though having fluency in German does increase the final occupational status of immigrants by 2.1 points, no other immigrant-related variables are apparently influential in the process of occupational mobility; and demographic controls generally operate to the disadvantage of foreigners.

In Figure 2 we contrast the process of occupational mobility experienced by natives and foreigners employed in the German labor market by comparing the experience of two hypothetical workers, one German and one immigrant. We assume that the German worker enters the labor market at age 20 with average characteristics for natives and then plot the occupational status achieved as the person ages and accumulates experience over the next 20 years. We likewise assume that the immigrant arrives in Germany at age 20 to take a first job with the average characteristics of foreigners and then plot the occupational status achieved as the person ages and accumulates experience as the person ages and accumulates experience over the next 20 years. We likewise assume that the immigrant arrives in Germany at age 20 to take a first job with the average characteristics of foreigners and then plot the occupational status achieved as the person ages and accumulates experience over the person ages and accumulates experience over the person ages and accumulates experience over the person ages and accumulates achieved as the person ages and accumulates achieved as the person ages and accumulates experience over the same period of time.

FIGURE 2 ABOUT HERE

This graph makes clear the severe handicap faced by guestworkers in the German labor market. Given lower skills and education and lower returns to this human capital, immigrants begin the process of occupational attainment with a four-point prestige gap compared with their native counterparts. Thereafter small returns to job experience (just .067 points per year) are offset by the negative effects of aging (-.071 points per year) to bring about a stagnation in the occupational status of immigrants, yielding a flat profile and no occupational mobility. In contrast, because they enjoy higher skills and education than foreigners, as well as higher rates of returns to such human capital, German workers enter the labor force at a higher level and thereafter experience considerable mobility, as the returns to experience (.237 points per year) greatly outweigh the negative effects of aging (also -.071 per year). As a result, the prestige gap between natives and foreigners widens over time.

DETERMINANTS OF WEEKLY EARNINGS

In Table 4 we consider the effect that initial ethnic segmentation and discrimination in the process of occupational attainment affect the final weekly earnings achieved by Germans and guestworkers. Although foreigners achieve a much higher rate of return for the completion of academic high school than natives, recall that 99% of the guestworkers in the sample do not attain this level of education. In contrast, the rates of return to the completion of technical high school and vocational training, more realistic goals for most immigrants, are far lower among guestworkers than among Germans. Whereas natives earned a wage premium of 4% for finishing technical high school and 45% for having additional vocational training, the respective figures for foreigners were 1% and 11%.

TABLE 4 ABOUT HERE

Among immigrants, however, final occupational status was less of a drag on earnings than among natives, while the returns to hours worked and time since first job were significantly greater, indicating a significant process of immigrant earnings mobility over time. Whereas each prestige point only lowered earnings by 0.8% among foreigners (compared with 1.4% among natives), each additional hour worked yielded 2.4% more earnings and each additional year of work experience since the first job boosted weekly wages by 4.5% (compared with respective figures of 1.1% and 1.3% for natives). Wages for immigrants also increase with years since arrival, although at a decreasing rate. The only experience indicator favoring Germans is age, where their coefficient of .008 is significantly greater than the figure of .003 for guestworkers.

Among control variables, males earn higher wages than females (though the gender premium is greater for German than immigrant men). Foreigners also experience roughly a 20% marriage

premium compared with nothing for natives. Paradoxically, immigrants have achieved German citizenship earned 12% less than those who had not, whereas those who displayed a strong behavior connection to the home country (by remitting) earned 6% higher wages.

The evidence presented to this point suggest a significant degree of ethnic segmentation upon entry into the German labor market, combined with some ethnic discrimination in the allocation of people to jobs thereafter, but no evidence of ethnic discrimination in the setting of wages within occupations of similar status. If anything, immigrants appear to experience higher rates of earnings mobility than natives as they accumulate time in the German labor market. Thus, whereas the existence of a significant status gap upon entry, when combined with a general lack of occupational mobility over time and a lack of returns to technical education or vocational training, imply an ongoing gap between Germans and guestworkers with respect to earnings, the generally high returns to experience enjoyed by the latter suggests that at some point in an immigrant's career the earnings gap might be overcome, as has been observed among immigrant workers in the United States.

Figure 3 plots predicted weekly wages for immigrants and natives by time accumulated in the labor force since the first job. As before, we assume that an immigrant with average characteristics arrives at age 20 to take a first job in Germany and then increases his or her age, experience, and time since arrival by one year each year thereafter. We likewise assume that a German with average characteristics enters gets a first job at age 20 and then increases his or her age and experience annually by one year for the next 30 years.

FIGURE 3 ABOUT HERE

As expected, the immigrants start at a serious earnings disadvantage, reflecting prior ethnic segmentation and discrimination in occupational attainment, as well as lower levels of education and

training and lower returns to human capital in the earnings attainment process. Over time, however, the earnings of both workers rise, but those of immigrants rise at a faster rate, finally reaching parity at around 23 years. Thereafter the earnings of immigrants exceed those of German natives, other things equal.

CONCLUSION

In this analysis we considered the relative position of immigrants and natives in the German labor market. In order to assess the separate effects of occupational segmentation and discrimination in the allocation of occupations and wages we conceptualized the process of earnings attainment as occurring in three stages: initial occupational achievement, final occupational achievement after the accumulation of experience, and contingent on the former, final earnings attainment. We specified this model in terms of three equations, one predicting first occupational, another predicting last occupation, and the last predicting earnings. We then estimated the three equations using data from the German Socioeconomic Panel, operationalizing first job as occupational status observed in the survey's first year, last job as occupational status observed in the survey's final year, and earnings as weekly wages reported for the final year.

Our results indicated a high degree of initial occupational segmentation, with immigrants being less able to translate their human capital into a good first job and being channeled into first occupations of significantly lower status than natives. We also developed evidence to suggest that immigrants experienced significant discrimination in the process of occupational attainment, yielding little job mobility over time. If anything, the status gap between Germans and guestworkers widened with time spent in the labor market. Holding occupational status constant, however, we found less evidence of direct discrimination in the process of earnings attainment. Although immigrants achieved lower rates of return to technical or vocational training than natives, their wage returns to experience, hours worked, years since migration, and academic high school were greater, yielding significant earnings mobility over time. The rates of return to experience are such that immigrants reach parity with natives after about 23 years in the German labor market.

If economic conditions are to improve for guestworkers in Germany, therefore, policies must focus on education and the connection between education and occupation rather than on combating wage discrimination in the labor market itself. Very few people of foreign nationality complete academic high school in Germany, despite the large payoffs in terms of both occupational status and wages, and greater educational achievement would significantly boost the economic status of foreigners, particularly in the second generation. But improved education by itself will not be enough unless concrete steps are taken to equalize access to initial prestige jobs and to ensure fairer access to the ladders of occupational mobility within the German labor market, where natives enjoy systematic advantages with respect to status and mobility that are unexplained by background differences with respect to human capital or other personal characteristics.

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Abitur or Greater 0.10 0.30 0.01 0.09 Other Education 0.61 0.49 0.16 0.37 German Vocational Training 0.61 0.49 0.16 0.37 Years of Foreign Schooling $$ $$ 4.51 3.57 Experience $$ $$ 4.51 3.57 Age 39.64 18.78 31.53 13.27 Years Since Migration $$ $$ 14.27 7.53 Language Ability $Speak$ Fluent German $$ 0.20 0.40 CONTROL VARIABLES $Demographic Situation$ $Malc$ 0.48 0.50 0.52 0.50 Married–Spouse in Germany 0.53 0.50 0.58 0.49 Married–Spouse not in Germany $$ $$ 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 0.49 Owns Home 0.47 0.50 0.07 0.25 0.48 6 German $$	Technical-Other	0.26	0.44	0.09	0.28	
Other Education German Vocational Training 0.61 0.49 0.16 0.37 Years of Foreign Schooling 4.51 3.57 Experience 4.51 3.57 Age 39.64 18.78 31.53 13.27 Years Since Migration 14.27 7.53 Language Ability Speak Fluent German 0.20 0.40 CONTROL VARIABLES 0.20 0.40 Demographic Situation 0.20 0.40 Male 0.48 0.50 0.52 0.50 Married–Spouse in Germany 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation 0.35 0.48 German 0.33 0.47 Yugoslav	Abitur or Greater	0.10	0.30	0.01	0.09	
German Vocational Training 0.61 0.49 0.16 0.37 Years of Foreign Schooling 4.51 3.57 Experience 4.51 3.57 Age 39.64 18.78 31.53 13.27 Years Since Migration 14.27 7.53 Language Ability 0.20 0.40 Speak Fluent German 0.20 0.40 CONTROL VARIABLES 0.20 0.40 Demographic Situation 0.20 0.40 Male 0.48 0.50 0.52 0.50 Married–Spouse in Germany 0.53 0.50 0.58 0.49 Married–Spouse not in Germany $$ 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation $$ 0.16 0.36	Other Education					
Years of Foreign Schooling 4.51 3.57 Experience Age 39.64 18.78 31.53 13.27 Years Since Migration 14.27 7.53 Language Ability Speak Fluent German 0.20 0.40 CONTROL VARIABLES Demographic Situation Male 0.48 0.50 0.52 0.50 Married–Spouse in Germany 0.53 0.50 0.58 0.49 Married–Spouse not in Germany $$ 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation Nationality European 0.16 0.36 Turk 0.16 0.37 0.33 0.47 Yugoslav 0.16 0.37 0.26 Feel German 0.04 0.18 0.41 0.18 0.41 0.22 </td <td>German Vocational Training</td> <td>0.61</td> <td>0.49</td> <td>0.16</td> <td>0.37</td>	German Vocational Training	0.61	0.49	0.16	0.37	
Experience Age 39.64 18.78 31.53 13.27 Years Since Migration 14.27 7.53 Language Ability Speak Fluent German 0.20 0.40 CONTROL VARIABLES Demographic Situation Male 0.48 0.50 0.52 0.50 Married–Spouse in Germany 0.53 0.50 0.58 0.49 Married–Spouse not in Germany $$ 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation Nationality Immigrant Immigrant Immigrant 0.47 0.33 0.47 Yugoslav 0.16 0.37 0.37 Born in Germany 0.07 0.26 $6eeman$ Turk 0.07 0.26 $6eeman$ <	Years of Foreign Schooling			4.51	3.57	
Age 39.64 18.78 31.53 13.27 Years Since Migration 14.27 7.53 Language Ability Speak Fluent German 0.20 0.40 CONTROL VARIABLES 0.20 0.40 Demographic Situation Male 0.48 0.50 0.52 0.50 Married–Spouse in Germany 0.53 0.50 0.58 0.49 Married–Spouse not in Germany 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation 0.35 0.48 Nationality 0.35 0.48 German 0.16 0.37 Born in Germany 0.20 0.40 Naturalized Children 0.07 0.26 Feel German 0.04 0.18 Remits <	Experience					
Years Since Migration 14.27 7.53 Language Ability Speak Fluent German 0.20 0.40 CONTROL VARIABLES Demographic Situation 0.20 0.40 Male 0.48 0.50 0.52 0.50 Married–Spouse in Germany 0.53 0.50 0.58 0.49 Married–Spouse not in Germany 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation 0.35 0.48 Nationality European 0.16 0.36 Turk 0.16 0.37 Born in Germany 0.20 0.40 Naturalized Children 0.07 0.26 Feel German 0.04 0.18 Remits 0.22 0.41	Age	39.64	18.78	31.53	13.27	
Language Ability 0.20 0.40 Speak Fluent German 0.20 0.40 CONTROL VARIABLES Junt Station Junt Station Junt Station Junt Station Male 0.48 0.50 0.52 0.50 Married–Spouse in Germany 0.53 0.50 0.58 0.49 Married–Spouse not in Germany 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation 0.16 0.36 Nationality 0.16 0.36 Turk 0.16 0.37 Born in Germany 0.20 0.40 Naturalized Children 0.07 0.26 Feel German 0.04 0.18 Remits	Years Since Migration			14.27	7.53	
Speak Fluent German 0.20 0.40 CONTROL VARIABLES Demographic Situation Male 0.48 0.50 0.52 0.50 Married–Spouse in Germany 0.53 0.50 0.58 0.49 Married–Spouse not in Germany 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation 0.35 0.48 German 0.36 0.47 Yugoslav 0.33 0.47 Yugoslav 0.20 0.40 Naturalized Children 0.07 0.26 Feel German 0.04 0.18 Remits 0.22 0.41	Language Ability					
CONTROL VARIABLES Demographic Situation Male 0.48 0.50 0.52 0.50 Married–Spouse in Germany 0.53 0.50 0.58 0.49 Married–Spouse not in Germany 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation 0.35 0.48 German 0.16 0.36 Turk 0.16 0.37 Born in Germany 0.20 0.40 Naturalized Children 0.07 0.26 Feel German 0.04 0.18 Remits 0.22 0.41	Speak Fluent German			0.20	0.40	
Demographic Situation Male 0.48 0.50 0.52 0.50 Married–Spouse in Germany 0.53 0.50 0.58 0.49 Married–Spouse not in Germany 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation 0.35 0.48 Nationality 0.35 0.48 German 0.16 0.36 Turk 0.16 0.37 Born in Germany 0.20 0.40 Naturalized Children 0.07 0.26 Feel German 0.04 0.18 Remits 0.22 0.41	CONTROL VARIABLES					
Male 0.48 0.50 0.52 0.50 Married–Spouse in Germany 0.53 0.50 0.58 0.49 Married–Spouse not in Germany 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation 0.35 0.48 NationalityEuropean 0.16 0.36 Turk 0.16 0.36 0.47 Yugoslav 0.16 0.37 Born in Germany 0.20 0.40 Naturalized Children 0.07 0.26 Feel German 0.04 0.18 Remits 0.22 0.41	Demographic Situation					
Married–Spouse in Germany 0.53 0.50 0.58 0.49 Married–Spouse not in Germany 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation 0.35 0.48 NationalityEuropean 0.16 0.36 Turk 0.16 0.37 Yugoslav 0.16 0.37 Born in Germany 0.07 0.26 Feel German 0.07 0.26 Feel German 0.04 0.18 Remits 0.22 0.41	Male	0.48	0.50	0.52	0.50	
Married–Spouse not in Germany 0.03 0.17 Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation 0.35 0.48 NationalityEuropean 0.16 0.36 Turk 0.16 0.36 0.47 Yugoslav 0.16 0.37 Born in Germany 0.20 0.40 Naturalized Children 0.07 0.26 Feel German 0.04 0.18 Remits 0.22 0.41	Married–Spouse in Germany	0.53	0.50	0.58	0.49	
Children in Household 0.36 0.48 0.61 0.49 Owns Home 0.47 0.50 0.07 0.25 Immigrant Situation	Married–Spouse not in Germany			0.03	0.17	
Owns Home0.470.500.070.25Immigrant SituationNationality0.350.48Nationality0.160.36German0.160.36Turk0.160.37Yugoslav0.160.37Born in Germany0.200.40Naturalized Children0.070.26Feel German0.040.18Remits0.220.41	Children in Household	0.36	0.48	0.61	0.49	
Immigrant Situation Nationality European 0.35 0.48 German 0.16 0.36 Turk 0.33 0.47 Yugoslav 0.16 0.37 Born in Germany 0.20 0.40 Naturalized Children 0.07 0.26 Feel German 0.04 0.18 Remits 0.22 0.41	Owns Home	0.47	0.50	0.07	0.25	
Nationality European 0.35 0.48 German 0.16 0.36 Turk 0.33 0.47 Yugoslav 0.16 0.37 Born in Germany 0.20 0.40 Naturalized Children 0.07 0.26 Feel German 0.04 0.18 Remits 0.22 0.41	Immigrant Situation					
European0.350.48German0.160.36Turk0.330.47Yugoslav0.160.37Born in Germany0.200.40Naturalized Children0.070.26Feel German0.040.18Remits0.220.41	Nationality					
German0.160.36Turk0.330.47Yugoslav0.160.37Born in Germany0.200.40Naturalized Children0.070.26Feel German0.040.18Remits0.220.41	European			0.35	0.48	
Turk Yugoslav0.330.47Sorn in Germany0.160.37Naturalized Children0.200.40Feel German0.070.26Remits0.040.18	German			0.16	0.36	
Yugoslav0.160.37Born in Germany0.200.40Naturalized Children0.070.26Feel German0.040.18Remits0.220.41	Turk			0.33	0.47	
Born in Germany 0.20 0.40 Naturalized Children 0.07 0.26 Feel German 0.04 0.18 Remits 0.22 0.41	Yugoslav			0.16	0.37	
Naturalized Children 0.07 0.26 Feel German 0.04 0.18 Remits 0.22 0.41	Born in Germany			0.20	0.40	
Feel German 0.04 0.18 Remits 0.22 0.41	Naturalized Children			0.07	0.26	
Remits 0.22 0.41	Feel German			0.04	0.18	
	Remits			0.22	0.41	

Table 1.Means and standard deviations for variables used in analysis of variables used in
analysis of occupational and earnings attainment in Germany.

	Germans		Guestwork	ers
Variable	В	SE	В	SE
HUMAN CAPITAL				
Formal Schooling in Cormony				
Secondary or Less				
Tashnical Other	 5 720***	0.240	1 101***	0.580
Abitur or Greater	129	0.240	5 092***	0.369
Addud of Greater	12.830	0.340	5.982	1./15
Common Vegetional Training	0 157***	0.220	((10***	0.446
Verman vocational Training	9.15/***	0.229	0.048***	0.440
Years of Foreign Schooling			0.263***	0.058
Experience	0.000****	0.000	0.000	0.010
Age	0.092***	0.006	0.096***	0.018
Years Since Migration			-0.321***	0.052
Years Since Migration Squared			0.007***	0.001
Language Ability				
Speak Fluent German			1.434***	0.445
CONTROL VARIABLES				
Domographic Situation				
Male	0.117	0.205	1 865***	0.320
Married Spouse in Germany	0.117 1 773***	0.205	-1.005 8 6/0***	0.439
Married Spouse not in Germany	4.723	0.235	5 215***	1.038
Children in Household	0.661**	0.228	0.500	0.336
Owne Home	0.001	0.228	-0.300	0.530
Using Home	-0.000	0.204	0.788	0.015
Nationality				
Furencen				
Garman				0.722
Tuel			0.265	0.733
			0.205	0.392
i ugoslav			-0.1//	0.470
Notanalized Children			-2.732****	0./10
Naturalized Children			0.437	0.643
Feel German			-0.036	0.854
Remits			-0.589	0.427
Intercept	21.024***	0.329	25.288***	0.780
\mathbf{R}^2	0.353***		0.252***	
Number of Cases	11,133		4,318	

 Table 2.
 Regression of occupational prestige during first year in panel on selected predictor variables.

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

	Germans		Guestworkers	
Variable	В	SE	В	SE
HUMAN CAPITAL				
Formal Schooling in Germany				
Secondary or Less				
Technical-Other	2.588***	0.215	-0.584	0.542
Abitur or Greater	8.994***	0.319	4.523**	1.572
Other Education				
German Vocational Training	0.320	0.213	0.155	0.419
Years of Foreign Education			0.087	0.053
Experience				
Initial Occupational Status	0.540***	0.008	0.513***	0.014
Age	-0.071***	0.006	-0.071***	0.017
Time Since First Job	0.237***	0.018	0.067*	0.029
Years Since Migration			-0.048	0.048
Years Since Migration Squared			0.001	0.001
Language Ability			00001	0.001
Speak Fluent German			2.061***	0.409
CONTROL VARIABLES				
Demographic Situation				
Male	1.755***	0.179	0.515	0.294
Married–Spouse in Germany	-1.716***	0.211	-1.276***	0.416
Married–Spouse not in Germany			-1.113	0.954
Children in Household	-0.080	0.199	-0.417	0.308
Owns Home	0.740***	0.178	1.657**	0.564
Immigrant Situation				
Nationality				
European				
German			0.184	0.672
Turk			-0.098	0.358
Yugoslav			0.236	0.432
Born in Germany			0.381	0.666
Naturalized Children			-0.977	0.589
Feel German			0.012	0.782
Remits			-0.413	0.392
Intercent	17 603***	0 358	19 047	0 808
R ²	0 466***	0.550	17.07/ A 780***	0.000
Number of Cases	11 076		0.200 A 210	
INUITION OF CASES	11,020		4,310	

Table 3.Regression of occupational prestige during last year in panel on selected predictor variables.

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

	Germans		Guestworkers	
Variable	В	SE	В	SE
HUMAN CAPITAL				
Formal Schooling in Germany				
Secondary or Less				
Technical-Other	0.040*	0.018	0.010	0.029
Abitur or Greater	0.019	0.025	0.233***	0.073
Other Education				
German Vocational Training	0.451***	0.021	0.108***	0.024
Years of Foreign Schooling			0.007	0.004
Experience				
Hours Worked	0.011***	0.0005	0.024***	0.001
Last Occupational Status	0.014***	0.0008	0.008***	0.001
Age	0.008***	0.001	0.003*	0.001
Time Since First Job	0.013***	0.002	0.045***	0.002
Years Since Migration			0.010*	0.004
Years Since Migration Squared			-0.0002*	0.0001
Language Ability			0.0002	010001
Speak Fluent German			0.025	0.027
CONTROL VARIABLES				
Demographic Situation				
Male	0.476***	0.016	0.249***	0.021
Married–Spouse in Germany	0.030	0.020	0.200***	0.026
Married–Spouse not in Germany			0.176**	0.063
Children in Household	-0.031	0.018	-0.024	0.021
Owns Home	-0.059**	0.016	0.001	0.028
Immigrant Situation				
Nationality				
European				
German			-0.121**	0.036
Turk			-0.011	0.024
Yugoslav			-0.014	0.028
Born in Germany			0.038	0.037
Naturalized Children			0.066	0.047
Feel German			-0.011	0.048
Remits			0.060**	0.024
Intercept	4.792***	0.048	4.354***	0.074
R ²	0.428***		0.470***	
Number of Cases	5,970		2.515	

Table 4.Regression of log of weekly wages on occupation prestige during last year and selected predictor
variables.

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







Figure 2. Predicted occupational mobility for hypothetical German and foreign worker



Figure 3. Predicted weekly wages earned by hypothetical German and foreign worker.

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