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China's Lesser Known Migrants

Deng Quheng Bjorn Gustafsson

May 2006

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China's Lesser Known Migrants

Deng Quheng

Chinese Academy of Social Sciences

Bjorn Gustafsson

University of Göteborg and IZA Bonn

Discussion Paper No. 2152 May 2006

IZA

P.O. Box 7240 53072 Bonn Germany

Phone: +49-228-3894-0 Fax: +49-228-3894-180 Email: iza@iza.org

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ABSTRACT

China's Lesser Known Migrants

In China *hukou* (the household registration system) imposes barriers on permanent migration from rural to urban areas. Using large surveys for 2002, we find that permanent migrants number about 100 million persons and constitute approximately 20 percent of all urban residents. Receiving a long education, being a cadre or becoming an officer in the People's Liberation Army are important career paths towards urbanisation and permanent migrants are much better-off then their counterparts left behind in rural China. The probability of becoming a permanent migrant is positively related to parental education, belonging to the ethnic majority and the parent's membership in the Communist Party. At the destination, most permanent migrants are economically well-integrated. They have a higher probability to be working than their urban-born counterparts and those who receive a *hukou* before age 25 typically earn at least as much as their urban-born counterparts. The exceptions for this are those permanent migrants who receive a *hukou* after age 25 and people who received their *hukou* through informal routes.

JEL Classification: J61, O15, P36

Keywords: China, hukou, rural-to-urban migration

Corresponding author:

Bjorn Gustafsson Department of Social Work University of Göteborg P.O. Box 720 SE 405 30 Göteborg Sweden Email: Bjorn.Gustafsson@socwork.gu.se

1. Introduction

Since its introduction during the planning period in the 1950s, a urban *hukou* (household registration) has been mandatory for people living in urban China.¹This system has put barriers on migration from rural to urban areas and has contributed to the large divide in living standards between the more affluent urban residents and their less fortunate rural counterparts. (Chan, 1994, Yang and Zhou, 1997, Zhao and Liu, 1997, Knight and Song, 1999, Zhao and Li, 1999, Zhao, 2000, Liu 2005 and UNDP, 2005)

After the introduction of economic reform, the Chinese economy has grown rapidly and more people than ever live in urban areas. Some enter as temporary migrants without possessing a *hukou*. Most such migrants are young manual labourers with lower-paid jobs. Typically, temporary migrants are disadvantaged when compared to urban residents regarding housing, protection for income loss and access to social services. They make up a lower stratum at the urban destination (Wang and Zuo, 1999, Zhao, 2000, Meng and Zhang, 2001, Cai et al., 2001; Cai et al., 2003, UNDP, 2005).

Other rural-born persons who have entered urban China have received a *hukou* by one of several routes. There are career routes by being more highly educated, being promoted as cadres or joining the People's Liberation Army. In addition, one can receive a *hukou* for family reasons, if land is transformed into urban use by the government, when buying a house at some cities, and even through purchase from the local government (Wong and Wai-Po, 1998, Lu, 2002, Chan, 2004).

This paper aims to shed new light on the flow of permanent migrants. It is far from the first study to investigate the permanent rural to urban migration in contemporary China. However, several key aspects of the permanent migration flow of rural-born persons to urban China appear to be unknown. These include basic information on the size of the population and what characterises the population and its cities. There is a lack of knowledge of the factors for predicting who will become a permanent migrant and who will remain in the rural setting. Further, it appears that only limited knowledge exists on the degree of assimilation or integration of the permanent migrants at the urban destination.

Our research questions are numerous. How large is the population of permanent rural to urban migrants and what characterises it? What characterises the cities in which the migrants live? What kind of family background do the permanent migrants come from? Do permanent migrants fare better than their rural peers who were left behind? (We expect this to be the case based on the knowledge that the urban to rural income gap in China is rather large.) If yes, then how large is the income gap? Turning to the destination, we are interested in how well permanent migrants assimilate into the emerging labour market at the destination. Is it possible to show that those who received a *hukou* through career channels are in a better situation than those who received it though other channels?

We expect rural-born permanent migrants living in urban China to fare well at the destination, although they might be at a disadvantage when newly arrived, a phenomenon often found in the literature on international migration. Many permanent migrants are highly educated and a large fraction are members of the Communist Party, circumstances that should indicate their being well established in most spheres of life. Further, most permanent migrants are ethnically similar to people at the destination and speak the same language, although with some accent. There are even arguments for expecting permanent migrants to do better than urban born residents possessing the same observed characteristics. Permanent migrants have been able to seize the opportunity and move from an unfavourable environment; therefore they can be expected to be more capable of finding opportunities at the destination than others. However, there is also an argument for expecting rural-born permanent migrants to do more poorly than their urban-born counterparts. China is known for personal connections being important in many aspects of life. Permanent migrants have had less time to build up a functional network in urban areas and might therefore be at a disadvantage when seeking jobs and being promoted to better-paid jobs. The question is therefore open if permanent migrants at the destination do better or worse than their urban resident peers.

The rest of the paper is structured as follows: In the next section the history and evolution of the *hukou* system is described. Most often research on migrants focuses on circumstances at the origin or at the destination. However, in this paper we combine perspectives, which is made possible by our data; Section 3 presents the large surveys for 2002. We depict permanent migrants and locations in which they live in Section 4. In Section 5 we address research questions referring to origin, in Section 6 we investigate if permanent migrants assimilate into the labour market of the destination, and in Section 7 we examine if those who

received a *hukou* through career channels are in a better situation than those who received it through other channels. Finally Section 8 summarises the study and its findings.

2. The *hukou* system²

Before 1949, when the Chinese Communist Party came into power, the movement of people throughout China was not restricted. Modelled on Soviet practice, the *hukou* system came into existence first in cities, then was extended to rural areas in 1955. All inhabitants were registered at the premises where they resided and then categorised. *Hukou* status cannot be changed easily, especially the conversion from rural to urban *hukou*. Within families, spouses were not necessarily categorised identically and children followed the classification of the mother. The phenomenon of the *hukou*, then, means that rural and urban residents in China should be viewed as two separate populations regarding more or less all spheres of life. A considerable amount of policymaking in China follows this division.

The introduction of the *hukou* system took place and was integrated with the creation of the planned economy. In cities (which were prioritised), work units were established. The workers typically had a long-term relation to their work unit; they were provided with housing, subsidised food, social benefit and old-age pensions. Individuals were allowed to move only when assigned new posts by the work unit or by the government. If one was not a member of a work unit, it was difficult to survive in a city because food, housing and social services were only of limited availability on the market. On the rural side, the commune system enabled local governments to tie peasants to the land. All adults had to participate in agricultural production to receive food rations. The communes had to deliver quotas to the government, thus helping to finance the industrialisation that took place in urban locations. In such a system, a person's fortune is very much linked to where he or she was born. The urban-born expect to be first-class citizens whereas the rural-born are relegated to being second-class citizens, unless they are able to migrate to urban areas and change registration.

Similar to most countries where aliens can become citizens, certain routes exist for rural-born persons in China to receive a *hukou*. Let us first discuss three routes that have been in force for some time. One is education. According to regulations, students are typically granted urban *hukou* status upon admission to a specialized secondary or tertiary school. Such educations are, in principle, open to all on the basis of merit. Rural-born persons who have

become urban citizens via this route are thus typically longer educated, and the conversion typically took place before or at the very beginning of working life. These characteristics do not necessarily apply to persons who received a *hukou* by joining the Chinese Communist Party; in fact, not all rural party members are automatically entitled to a *hukou*. However, he (or less likely she) may be able to serve as rural *cadre* (that is village head, village party secretary, head of village enterprise, or village accountant). Some are promoted to higher leadership levels, and being part of the state bureaucratic system, are eligible to receive a *hukou*. A route still open for men (which could be combined with the previous situations) is to receive a *hukou* by joining the People's Liberation Army. After being discharged, a former PLA officer can obtain an urban job directly and change *hukou*.

In addition to the three career routes there are other routes for receiving a *hukou*. Family members can apply. It is important to note, however, that spouses do not have the right to receive a *hukou* immediately after marrying; many couples in China have lived separated from each other for years. Households having user rights to agricultural land can receive *hukou* as compensation if land is converted to urban use (See Wong and Wai-Po, 1998). In some cities, a more recent route for people with means is to procure a *hukou* through buying housing in an urban area, while some local governments sell urban *hukou* to meet financial needs.

Following the rapid influx of rural inhabitants during the turmoil and administrative collapse of the Great Leap Forward at the end of the 1950s, the *hukou* system effectively kept the inflow of rural inhabitants very low for many years. It has also restricted inter-urban migration as a *hukou* in one urban location is not easily transferred to another. However, the economic reforms that were introduced in rural areas at the end of the 1970s meant increased opportunities for many rural inhabitants to change their lives. Many saw the chance to urbanise and relocated as temporary workers without receiving a *hukou*. In urban areas, ties between workers and their work units have loosened since the 1980s, and consumer goods and housing are no longer administratively allocated. To be self-employed as a domestic worker or to be a wage earner in the construction sector without having a *hukou* has become a possible strategy for living in urban areas and the temporary rural to urban migration has accelerated. Compared to when it was originally institutionalised, the *hukou* system nowadays is operating in a rather different environment and is becoming less restrictive.⁴

3. Data

The data for this study comes from three coordinated household surveys conducted in 2002 for the research project "Income Distribution, Growth and Public Policy in China", which involved a group of researchers at the Institute of Economics, Chinese Academy of Social Sciences, Beijing and scholars from other countries. The project was economically supported by the Ford Foundation in Beijing and SIDA (Swedish International Development Agency). The project was assisted by the General Team of Rural Surveys and General Team of Urban Surveys at the National Bureau of Statistics (NBS) that conducted the fieldwork in the beginning of 2003. The questionnaires were designed by the project team to meet the needs of research.⁵

The survey of urban residents covers 2 municipalities and 10 provinces, from which a sample of 6 835 households living in 77 cities was obtained. Both the urban and rural samples were drawn from larger samples regularly used by NBS to produce official statistics for China. The sample frame for the urban sample is based on registers of people possessing a *hukou*. This sample will be used to identify permanent migrants in the next section. This sample of urban residents will also form the basis for the analysis of income assimilation of permanent migrants reported in Sections 6 and 7. The urban sample will also be used to estimate the size of permanent migrants and analyze their destinations.

A second survey covers temporary rural to urban migrants living in the same municipalities and provinces as the survey of urban residents. It is experimental in the sense that, by definition, no sample frame exists from which to draw all types of temporary migrants. Shortterm rural migrants living in dormitories and/or at urban work places are rather difficult to identify, while rural migrants with housing conditions similar to the registered urban population can be simpler to identify and sample; our sample of temporary migrants has this character. This sample of 2 000 households is used in Section 5 when comparing permanent and temporary migrants and when investigating the economic benefits from migrating.

The third sample covers rural households in 22 provincial level units comprising 122 counties or towns from which 9 200 households were selected. We use this sample in Section 5 when analysing who becomes a permanent migrant and when investigating the economic benefits of migration.

4. Counting Permanent Migrants and Characterising their Destinations

In the sample of urban residents we identify permanent migrants by the answers to the question: "When did you receive an urban hukou?" Out of 20 082 individuals with local urban hukou in the urban households sampled, 4 069 indicated that they were rural-born or received an urban hukou later in their lives; they make up 20.3 percent of the urban resident population. According to NBS, the population of registered urban persons in 2004 numbered 543 million. From this we derive probably the first estimate of the size of the permanent rural to urban migration population in China - 110 million persons. This means a magnitude similar to the temporary migration population in 2004, which is counted as 120 million (State Council, 2006, p 4).⁶ If we define the "true" urban population as the sum of those who are registered as residents and the temporary migrants, it follows that urban China in 2004 had a population of around 663 million. Of those, 35 percent were rural-born. It is interesting that this percentage is similar to the proportion of people from mainland China in the Hong Kong labour force; this was reported to be 32.6 percent in 1996 (See Zhang et al 2005). It appears that the hukou system of P.R. China has been as efficient in keeping rural migrants out of its cities, as the immigration policy of Hong Kong and emigration policy of mainland China were in keeping people from mainland China out.

/ Table 1 about here /

/Figure 1 about here /

Table 1 shows the number of permanent migrants in our sample by gender and age. The proportion of males among the permanent migrants is higher than the corresponding proportion among urban born residents; this result probably signals larger access to career routes, as females seldom join the PLA, for example. Nevertheless, the difference is not large. Not surprisingly, few children and young adults in the permanent urban population are rural-born. Assume that the propensity for being a permanent migrant is constant over time and is highest for young adults and decreases with age. In such a case, one would expect that among adults the proportion of rural-born in the urban population would increase with age. This is not exactly what we find, see Figure 1. The highest proportion of rural-born (32 percent) is found among those aged 31 to 35, i.e. among persons born 1967-1971. Here we see people

who reached adulthood in reform China when higher education had expanded and geographical mobility had become easier. The situation for those born in rural China a decade earlier, i.e. those who became adults during the Cultural Revolution, appears to be rather different. As few as 17 percent of urban residents aged 41 to 45 are rural-born.

/Table 2 and Table 3 about here/

We now turn to the question of what characterises cities to which permanent migrants move. For this we use the fact that the urban sample is drawn from 77 different cities and for each we can compute its migration density defined as the fraction of rural-born registered inhabitants. The mean ratio is 0.224 and Table 2 shows that permanent migrants make up a larger proportion of the population in medium and smaller-sized cities than in large cities. This is reasonable as housing availability and other barriers to immigration typically make migration to larger cities more difficult than migration to smaller cities. We also report that the migration density is larger in the middle region of China than in the East or the West. Furthermore, the migration density is related to per capita income of city as well as employment rate.⁷ In Table 2 it can be seen, for example, that low-income cities have a high proportion of permanent migrants. However, low-income cities are also typically small in size; therefore it is more instructive to look at the results from estimating a regression model with migration density as the dependent variable. Table 3 shows that we cannot report a statistically significant relationship between city income and migration density once other city characteristics are included in the model. However, the employment rate of the city is reported to have a statistically significant and positive coefficient, and there are significant coefficients for city size as well as region. This model predicts a migration density for Beijing of 0.112, while for a small or medium-sized city located in the middle of China, the prediction varies due to variation in the employment rate observed in the sample (from 0.505 to 0.949) from 0.173 to 0.381 with the income level set at the sample mean.

5. From the origin

In this section we view the permanent migrants from the perspective of origin. For this we derive a sample of rural-born persons by merging the sample of permanent migrants as defined above with persons from the Rural Household Income Survey ("stayers"). Doing this

assumes that urban to rural migration is non-existent, which is an exaggeration, though probably only slight. When reporting how high a proportion of the rural-born population is comprised of permanent migrants, we consider the fact that the probabilities of being included in the urban and rural samples differ somewhat.⁸

/ Table 4 about here/

Table 4 provides descriptive statistics for permanent migrants, other rural-born persons and the summary category of rural-born persons. We find that 11.5 percent of the rural-born had become permanent migrants by 2002. Not surprisingly, the table shows that the permanent migrants differed from the stayers in many respects. The only exception is for gender composition which is identical across the groups. Permanent migrants are on average 10 years older than the stayers. There is a smaller fraction of persons belonging to the ethnic minorities among the permanent migrants than in the entire population of rural-born individuals. According to our calculations, only 3 percent of people belonging to an ethnic minority born in rural China have become permanent migrants, which can be compared to 13 percent in the majority population. This large difference can be seen in the light of China's minority population being more concentrated to remote areas; remoteness most probably affects the probability of becoming a permanent migrant.

Given that one route for becoming a permanent migrant is through being a cadre, it is not surprising that as many as one out of three permanent migrants were members of the Communist Party at the time of the survey, while only 1 out of 18 stayers were party members. The difference in education across the two groups is also expected, as a long education is a route to receiving a *hukou*. While as many as 28 percent of the permanent migrants have at least a college education, the corresponding proportion among stayers is less than 2 percent. Our calculations show that as many as 71 percent of rural-born persons with college diplomas now live in cities as permanent migrants.

The topic of brain drain has been widely discussed regarding international migration from developing to developed countries. In such a context it is typically claimed that the geographical mobility of better-educated workers from the poor countries to the rich countries is harmful for the former and benefits the latter; policy measures are therefore warranted. Our numbers indicate that the internal brain drain in China, from its rural areas to its cities, has

been great. Yet at present, this issue does not appear to be attracting much attention among observers and policymakers. This is in contrast to earlier epochs in the history of the PRC. Previously, educated youths were sent to the countryside on a small scale. However, this policy of "up to the mountains and down to the villages" was intensified during the Cultural Revolution and as many as 14 million educated young people, for the most part graduates of secondary schools, were sent to the countryside (Beijing Daily, 1998, see also Bernstein, 1977). However, the overwhelming majority of educated youth returned to cities after the end of the Cultural Revolution.

We now ask: What characteristics at the family level of origin affect who has become a permanent migrant in China? This question does not appear to have been addressed earlier. When selecting candidates to be used in the empirical analysis, we have to consider what might affect people using the various routes for receiving a *hukou*. As there are several different routes, many factors are likely to be in play; factors might differ across location as well as time. However, we are limited by what is recorded in our data. For example, the surveys do not provide information on the precise location where the person spent his or her childhood and youth; we only know that he or she is rural-born. Given this, we use two specifications with a small number of parental characteristics to analyse who becomes a permanent migrant.

From the findings reported above, it is self-evident to include ethnicity in the specification. It is commonly found that parental education affects education of the child, therefore we also include variables measuring parental education in the specification. Further we include, for several reasons, a variable measuring if at least one of the parents was a member of the Communist Party. There might be an intergenerational relation to party membership and party membership helps to urbanization. A parent's party membership might signal better opportunities for receiving a long education or receiving a *hukou* through other channels. Finally we add gender and in an alternative specification also age and age squared to the explanatory variables.

/Table 5 about here/

When estimating logit models we split the sample by age of person into three subsamples; the results are reported in Table 5. Despite that the probability of becoming a permanent migrant

differs across cohorts, the process of becoming one appears to be relatively similar across cohorts. Ethnicity as well as parent education strongly affect the probability of becoming a permanent migrant. A parent's CPC membership also affects the probability of becoming a migrant, but not as strongly as education and ethnicity. Coefficients of gender are in most cases estimated with low t-statistics.

/ Table 6 about here/

Based on the estimates, in Table 6 we show probabilities of becoming a permanent migrant predicted for a few typical individuals who have grown up in families with the same characteristics but were born during different periods. Reading across columns it is found that the older the person, the higher the probability of becoming a permanent migrant. Reading down the columns we find polar opposities. At one extreme is a minority person with low-educated parents who were not CPC members. This person is predicted to have a probability of being a permanent migrant among the oldest cohort of only 4 percent. At the other extreme is a majority person with parents possessing at least a primary school education and who were CPC members.⁹ For this case, the predicted probability of being a permanent migrant among the oldest cohort is 69 percent.

/ Table 7 about here /

We now compare the economic situation in 2002 for permanent migrants and those rural-born who were left behind, to find out how large the gains are from urbanising. As a rural-born person can urbanize by becoming a temporary migrant or a permanent migrant, we take both alternatives into account. Information on temporary migrants is taken from the survey presented in Section 3. Table 7 shows per capita total income among the three categories: permanent migrants, temporary migrants and rural resident. Per capita income includes not only money income but also income in kind, income of subsistence agriculture (in rural China), and transfers such as pensions; income is recorded net of taxes and is computed for a period of a calendar year. We find that on average, temporary migrants have per capita incomes twice as high as rural residents, while permanent migrants receive an average income roughly three times as high as rural residents. The numbers in Table 7 also show that in rural areas, mean per capita income of ethnic minorities is 34 percent lower than for the ethnic majority. However, such differences are much smaller for both categories of migrants. While we have found that ethnicity is a barrier to becoming a permanent migrant, it seems to be of little disadvantage to those who have migrated. The table also shows that CPC members have higher per capita incomes than others, and in a percentage sense this gap is larger for rural residents than for the two types of migrants.

Finally, turning to education we find the more or less universal positive relation between education and income in all three categories. Among adult permanent migrants, per capita income increases profoundly by age up to 46-50 after which differences by age are small. For the two categories of migrants the age/income relation is weaker. This means that the mover/stayer income gap depends on the age of the person. It is smallest for young adults and highest at mature middle-age. Differences in personal characteristics between the migrants and the stayers must contribute to the mover /stayer income gap. How important is the contribution?

To answer this question we perform the following exercise: First we define 10 sub-samples of adults of specific ages and pool rural stayers, temporary migrants and permanent migrants of a particular age. In the first specification we regress per capita income on a dummy indicating if the individual is a temporary migrant and another if he or she is a permanent migrant. In this way the constant expresses the mean income of stayers in a particular age category. In the second specification we add to the explanatory variables the schooling years of the individual as well as a dummy indicating CPC membership of the individual. The parameter estimates for the variables temporary migrant and permanent migrant are also shown in Figure 2a, and indicate the adjusted mover/stayer income gap. Figure 2b reports ratios of the income of temporary and permanent migrants to that of stayers. Comparing the age/income profiles derived from the two specifications provides further insights.¹⁰

/Figures 2a and 2b about here/

A first perception is that the longer education and the larger proportion of party members among the permanent migrants actually contribute to the migrant/stayer income gap. However, such differences serve only to explain a relatively small proportion of the income gap. Second, there are large incentives to urbanize, as given education and party membership status, temporary as well as permanent migrants have much higher per capita incomes. Third, there are incentives for receiving a *hukou* for temporary migrants intending to stay at the urban destination. This is evident by the adjusted curves for permanent migrants being higher than for temporary migrants for persons aged 30 and older. Note also that among temporary migrants the adjusted migrant/stayer income gap is rather similar to the unadjusted gap, reflecting that temporary migrants and rural stayers on average do not differ regarding education and party membership.

From the estimates we can report the economic value of receiving a *hukou* as the difference in earnings between temporary and permanent migrants computed over the age-span 30-60 (assuming the profiles remain unchanged). If we apply a discount rate of 5 percent, the sum is 79 982 Yuan, while the annual wage income in urban China in 2002 is 12 422 yuan. The full economic benefit of a *hukou* also includes better access to social services for the worker and his/her family, and higher pension payments when retired. It is interesting to compare the average earnings benefit for receiving a *hukou* (according to our calculations) with prices rural residents actually have paid. Chan (2004) summarizes such information from the beginning of the 1990s. It is reported, for example, that the price of a *hukou* in central Shanghai was 81 457 Yuan (in 2002 prices) while the price in a suburban district was 40 729 Yuan and 20 364 Yuan in a suburban county. The same author also reports that in the first half of July 1992, 40 000 *hukou* were sold in Henan province alone at prices ranging from 11 249 Yuan to 56 247 Yuan (in 2002 prices). It thus appears that local governments have set the price of a *hukou*, signifying that they on average share the economic value with rural residents.

6. At the destination

/Table 8 about here/

In this section and the next we change perspective and study how permanent migrants are faring at the destination by concentrating on earnings among persons of work active ages (aged 16-60). For this purpose we first compare the permanent migrants with urban-born residents in Table 8. There are both similarities and differences between the two categories.

Starting with the former we report an average length of education of 11 years, although the education levels are somewhat more varied among the permanent migrants. By inspecting the education level of the parents we see that in the space of one generation the educational level has increased rapidly. One quarter of the urban-born residents and one-third of the rural-born had a father who was illiterate; as many as half of the urban-born and two-thirds of the rural-born had an illiterate mother. While there was a profound gender difference in education for the parent generation (average schooling of fathers was 5.3 years compared to 4.1 years for mothers), somewhat less of a difference is observed in the present economically active generation (average schooling of males is 11.4 years compared to 10.8 years for females).

The ethnic composition is rather similar for rural and urban-born urban residents, which means that ethnic minorities make up a considerably smaller proportion of urban residents than in China's total population. Permanent migrants are on average two years older than the urban-born residents and somewhat related to this, a higher number of permanent migrants are married. Given that CPC membership facilitates the conversion of *hukou* status, it is not surprising that a larger proportion of permanent migrant are party members than for the urban-born. Fewer permanent migrants are students than urban-born. Turning to the focus of this paper, we find that while 65 percent of the urban-born residents are employed or self-employed, the corresponding proportion among permanent migrants is 73 percent, a difference of 8 percentage points. We now investigate if this difference can be attributed to individual characteristics in addition to permanent migrants and urban-born residents having different spatial distributions.

/Table 9 about here/

We analyse determinants of employment by estimating Logit-models for the sample of all urban residents. Explanatory variables measure years of schooling, marital status, political status, ethnicity, age, as well as a dummy indicating if the person is a permanent migrant or not. The specification also includes 76 dummies for cities. We estimate models for both genders combined, but also for each gender separately. As expected, the estimates show employment to be positively affected by education, by being a member of CPC and among males by being married, while for females the status of being married has a negative effect. The coefficients of ethnicity are all estimated with a low t-statistic. Turning to our focus for the analysis, the coefficients for being a permanent migrant are all positive and highly

significant. Figure 3 predicts the probability of being employed for a typical male and female but with varying age and status as permanent migrant or urban born resident. The probabilities of working for permanent migrants and male are higher than that of urban residents and female, respectively. The difference in the probability to work between male and female decreases first with age and increases again when approaching retirement. This is also the case for the difference in the probability of working of permanent migrants and urban residents.

/Figure 3 about here/

The rest of the analysis in this section is made for people who are working. Table 8 shows no difference in mean earnings between permanent migrants and urban-born residents. We proceed by running log earnings-functions using different specifications. Common to the specifications are variables measuring schooling, marital status, CPC membership and ethnicity. We also include dummies for city of residence as it was found that permanent migrants disproportionately reside in cities with a low per-capita income. We present estimates for the pooled sample of permanent migrants and urban residents, males and females combined, for each gender and include a dummy for being a permanent migrant. We also present results for the sub-samples permanent migrants and urban residents separately. For the former category we also work with different sub-samples and specifications.

/Table 10 abut here/

The estimated rates of return to education presented in Table 10 are somewhat higher for females than for males but do not differ between permanent migrants and other urban residents. For example, the rate of return for one year of schooling is 7 percent for males and 9 percent for females. Though different from what was reported from earnings functions estimated based on older data for China, these numbers are in international comparison not particularly low; they reflect the situation that economic returns to schooling in urban China increased during the years preceding collection of the survey we are working with (See Zhang et al, 2005). As previously found when running an earnings-function for China, there is a positive effect of being a CPC member (although the interpretation of this is not self-evident), and a positive effect of being male. There is no indication in our estimates that ethnicity affects earnings among urban workers.

When we pool permanent migrant and urban residents, we obtain a positive effect of being a permanent migrant estimated with a high t-statistic in the sample of men amounting to 8 percent. However, the corresponding positive coefficient for females is lower and estimated with a low t-statistic. For both genders we report positive coefficients for the variable years since receiving a *hukou* that are estimated with high t-statistics. We also report negative coefficients for the variable years since receiving for the variable years since receiving *hukou* squared, and for males the coefficient is estimated with a high t-statistic.

Based on the estimates, we predict earnings for a typical urban-born male and a typical urban born female, from age 16 up to the general retirement age (60 years for men and 55 for women). We also predict earnings for permanent migrants with the same characteristics but with *hukous* received at different ages as shown in Figure 4. In short, age when receiving a *hukou* matters. We find that permanent migrants who receive a *hukou* after age 25 never catch up with their urban-born counterparts. For the women, the earnings gap is substantial and considerably larger than the corresponding gap for men. This gender difference might be due to reasons for receiving *hukou* after age 25 differ between men and women. Family unification is probably a more frequent reason for females while career path is more frequent for males.

/Figure 4 about here/

In contrast to what we found for women receiving a *hukou* after age 25, receiving a *hukou* at an earlier age is predicted to lead to permanent migrants overtake urban-born. For example at age 40, those female permanent migrants who received a *hukou* between age 21 and 25 are predicted to earn 7 percent more than their urban-born counterparts. For men who receive a *hukou* before age 25 the situation is still better; they are actually predicted to have earnings considerably higher than their urban-born counterpart. For example men who receive a *hukou* between age 21 and 25 are predicted to earn 16 percent more than their urban-born counterparts at age 40.

Our result that age when receiving a *hukou* is important for labour market assimilation is consistent with what Liu (2005) reports based on data for 1995. What is new is the evidence of gender differences. We carry this issue further and ask if it is possible to show that gender

differences during working life also signify differences after retirement, as in urban China pensions are related to a person's earnings history. We therefore examine pensions for people over age 60 and estimate simple regression models including age as independent variable. The OLS estimates are reported in Appendix 2. Not surprisingly, we find that males receive higher pensions than females. When splitting the sample by gender we find a positive coefficient for permanent migrants among males estimated with a high t-value, but for females the t-value is low. It is interesting to see that when we include a dummy that indicates if the person is retired from government or a similar institution, this has a large positive effect on the pension. However, the coefficient for being a permanent migrant is still positive and estimated with a high t-value for men (while it is negative for females).

The material presented in this section has shown that permanent migrants are more likely to work than their urban-born counterparts. For those who work, the results indicate that permanent migrants who receive a *hukou* before age 25 years are economically well-assimilated into the labour market at the destination, and actually tend to earn more than their urban-born peers. Such a positive selection of rural people moving into cities is perhaps not unique to present-day China; see Hatton and Bailey (2002) who studied male workers born in rural Great Britain who migrated to London in 1929-1931. Their earnings functions show a positive effect of being rural-born that is of the same magnitude as we here have reported for permanent migrants.¹¹

7. Different routes for receiving a *hukou* and success in the labour market

Up to now we have not differentiated between kinds of routes used by rural-born persons for acquiring a *hukou*. This section investigates to what extent such a differentiation is informative, taking into account that the urban labour market in China is characterised as being highly segregated. We will distinguish between career routes on one hand and on other more recent routes such as compensation for land acquisition, house purchase or direct *hukou* purchase. Career routes typically apply to a person working in a better segment of the labour market (as a white-collar worker), while this is not necessarily the case for people who receive a *hukou* via the more recent routes.

In the urban survey we examine respondents who had urbanized who were asked how they received their *hukou*. Among workers aged 16-60, 1 117 indicated that they had received their *hukou* through career routes, while 219 received it through informal routes.¹² We define white-collar to mean occupations coded as professional, director, director of department, clerical/ office staff. Table 11 shows that not less than 82 percent of those who had received a *hukou* through career routes were occupied in white-collar occupations, to be compared with only 29 percent among those who had received a *hukou* through other channels.

/Table 11 about here/

Permanent migrants who have received a *hukou* through career routes are more likely to be male, members of the Communist Party, have a longer education and have lived in urban China longer than those who have received *hukou* through informal routes. There is also a considerable difference in earnings across the two categories, as mean income of migrants who received a *hukou* through informal routes on average earn 26 percent less than those who received a *hukou* via career routes. To what extent can this earnings difference be attributed to the occupational segregation across the two categories?

Using the method proposed by Brown et al. (1980) and Liu et al. (2004), we can decompose the earnings differentials among permanent migrants through different routes to get *hukou* into four parts. Assume the earnings functions are:

 $\ln Y_j^f = X_j^f \beta_j^f + \varepsilon_j^f$ $\ln Y_j^i = X_j^i \beta_j^i + \varepsilon_j^i$

where superscripts f and i represent permanent migrants who received a urban *hukou* through formal and informal routes, respectively. Subscripts j=1, 2 represent white- and blue-collar occupations, respectively. X_j is a list of variables determining earnings such as age, schooling, gender, etc. and β_j are parameters to be estimated.

The earnings differential can be decomposed as four parts:

$$\overline{\ln Y^{f}} - \overline{\ln Y^{i}} = \sum_{j=1}^{2} P_{j}^{i} \hat{\beta}_{j}^{f} (\overline{X}_{j}^{f} - \overline{X}_{j}^{i}) + \sum_{j=1}^{2} P_{j}^{i} \overline{X}_{j}^{i} (\hat{\beta}_{j}^{f} - \hat{\beta}_{j}^{i}) + \sum_{j=1}^{2} \overline{\ln Y^{f}} (P_{j}^{f} - \hat{P}_{j}^{i}) + \sum_{j=1}^{2} \overline{\ln Y^{f}} (\hat{P}_{j}^{i} - P_{j}^{i})$$

where \hat{P}_{j}^{i} is what the proportion of permanent migrants receiving an urban *hukou* through informal ways would be in occupation j had they been treated equally with their counterparts getting a *hukou* through formal ways. The four parts can be named intra-occupational explained, intra-occupational unexplained, inter-occupational explained and interoccupational unexplained, respectively.

This framework is suitable for our purpose as it enables us to investigate to what extent allocation into occupation by routes for receiving a *hukou* contributes to the earnings differential between those who received a *hukou* via career routes and other routes into explained and unexplained parts. Further the intra-occupational part indicates to what extent persons who have received a *hukou* via different routes receive different rewards given their occupation. A limitation in our application is that our data forces us to work with only two occupations, which might have consequences on how large a proportion of the difference will be found to be unexplained.

When applying this framework we estimate a probit model of occupational attainment as well as earnings functions for each occupation for the two categories of permanent migrants separately. The results are found in Appendix 3 of the paper where it is shown that schooling and membership in CPC are important determinants of occupational attainment for both categories of permanent migrants, while age and age squared are significant in the equation explaining occupation only among permanent migrants who entered urban China through career routes.

/Table 12 about here/

The results from the exercise are reported in Table 12. We find that 40 percent of the difference in earnings across the two categories of rural-born people who have migrated to urban China via different routes can be explained by persons being occupied in different sectors; thus 60 percent is due to differences within sectors. Further, half of the differential can be attributed to differences in variables, while the other half is unexplained. The intra-occupational part (35 percent of the total earnings differential) is larger than the inter-

occupational part (16 percent of the total earnings differential). This means that unequal treatment within occupations is more serious than unequal access to occupations. This is in contrast to the explained parts in the intra-occupational and inter-occupational parts being of rather similar size. Thus income differentials explained by characteristics are of the same magnitude within and between occupations.

This section has shown that earnings of permanent migrants to urban settings differ by routes of receiving a *hukou*. People who have entered via career routes earn considerably more than others. About half of this difference can be explained by differences in variables, half by different treatment in the urban setting. There are signs of different access to the better segments of the labour market, but at least as important are different treatments within the broad occupations we specified.

8. Conclusions

In this paper we have studied people born in rural China who now live in urban areas of China and possess a residence permit, a *hukou*. We have used large datasets covering large parts of China in 2002. The number of permanent migrants has been estimated and portrayed. The permanent migrants have been compared to the rural-born peers they left behind as well as to migrants who live temporarily in urban China without a *hukou*. Furthermore, the permanent migrants have also been compared with their peers at the destination.

According to our estimates, permanent migrants numbered around 110 million persons and constituted 20 percent of the registered population of China's urban areas. This means that they are as numerous as the temporary migrants living in China's urban areas, a category which has received more attention than the permanent migrants. The proportion of rural-born persons is high for those who reached adulthood in reform China and lower for those who became adults during the Cultural Revolution. The permanent migrants are disproportionately located in small cities, cities with high employment and cities located in the middle region of China.

Compared to their rural-born peers, permanent migrants have much higher per-capita incomes than their peers (rural-born persons left behind). A longer education and a higher proportion of membership in the Communist Party contribute to this difference but most of the difference remains unexplained, signalling large incentives to urbanise as well as to receive a *hukou*. We have also reported that other rural-born persons who have moved to urban China without a *hukou* have much higher incomes than the rural-born persons left behind in the villages. However, these temporary migrants are not as advantaged as the permanent migrants and they have substantial incentives for procuring a *hukou*.

While living a life very different from their peers left behind, the economic circumstances of permanent migrants at the destination are on average similar to the urban-born population. The permanent migrants were actually found to have a higher probability of working. Permanent migrants who received a *hukou* before age 25 do well in the labour market and we have reported indications that they actually overtake urban-born peers regarding earnings. After age 60, permanent migrants receive higher pensions than their urban-born counterparts. In contrast, permanent migrants who receive a *hukou* after age 25 never catch up with their urban-born counterparts; for such females the earnings gap to urban-born residents is substantial.

It was found meaningful to distinguish between career routes for receiving a *hukou* through education, becoming a cadre, being an officer of the People's Liberation Army, and more recent routes. More often than for other routes, career routes lead to a job in the better segment of the urban labour market and to higher earnings. To some extent, the higher earnings among migrants who have entered urban China through career routes can be attributed to variables at the personal level. However, there are also signs of unequal treatment between different categories of permanent migrants within occupations and to a smaller degree in access to better occupations.

We will round off this paper with some comments on China's policy of requiring rural-born persons desiring to live in urban China to have a *hukou*. At present there are many discussions of policy changes. When following these discussions one should understand that much of the policymaking on this issue is made at the city level. This means that at the moment there is great variation in the requirements for receiving a *hukou* across cities. An observer knowledgeable of the situation in one city, cannot be certain that this knowledge will apply to

another city. Such local variation has advantages, but also disadvantages. Among advantages there can be local experiments that produce valuable knowledge. As to disadvantages, local requirements might prevent a fully developed labour market from being established. For example, if a person living in one of the larger cities is offered a better job in a smaller city, he or she has to weigh the higher compensation against the risk of losing a more attractive *hukou*.

Our study has shown that the vast majority of rural-born persons who have received a college diploma now live in urban China. There has thus been a large internal brain drain in China from its disadvantaged rural areas to its more thriving urban areas. From this perspective China's *hukou* system has similarities to patterns of the immigration policies industrialised countries pursue. They welcome immigrants who can contribute to the country in the new location, while they keep others out.

Like industrialised countries in the West, urban China faces the great challenge of being attractive among a large population of non-residents. However, while in western countries such people are not citizens, in urban China those facing barriers are citizens but not holders of residence permits. How to handle the issue of urban residence permits is, and will continue to be, a great challenge for policymakers in China. The difficulty is compounded by the fact that China's cities already have large populations of non-residents. If such persons do not receive rights more similar to a *hukou*, the situation will lead to pressing social tensions. However, making it easier to receive a *hukou* or even abolishing the requirement, would most probably lead to a rapid influx of a larger number of migrants, which in turn will lead to increased social tensions.

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	Urban R	lesidents	Permanent	t Migrants
	%	Number of observations	%	Number of observations
Gender				
Male	48.94	7836	52.35	2130
Female	51.06	8177	47.65	1939
Age group				
<16	16.82	2694	5.58	227
16-20	7.94	1271	3.10	126
21-25	5.96	954	3.51	143
26-30	4.71	755	6.51	265
31-35	7.10	1137	13.05	531
36-40	10.74	1719	13.86	564
41-45	10.79	1728	8.90	362
46-50	13.17	2109	12.36	503
51-55	8.92	1429	10.74	437
56-60	4.38	701	7.54	307
60+	9.47	1516	14.84	604
Number of observations		16013		4069

Table 1. Urban Residents and Permanent Migrants by gender and age group

Table 2. Permanent Migrants as Proportion of Urban Residents in Different Types of Cities

Characteristic of city	Ratio	No. of Cities
Per capita Income		
<8000	0.274	26
8000-10000	0.239	28
10000-12000	0.150	10
>12000	0.145	13
Employment Rate		
< 0.65	0.181	7
0.65-0.70	0.175	15
0.70-0.75	0.189	15
0.75-0.80	0.246	21
>0.80	0.280	19
City size		
Large	0.136	20
Small or Medium	0.254	57
Region		
Eastern China	0.163	30
Middle China	0.284	28
Western China	0.231	19
Total	0.224	77

0.468**	
(0.197)	
-0.067*	
(0.039)	
-0.080*	
(0.043)	
-0.056	
(0.039)	
-0.008	
(0.006)	
0.010	
(0.140)	
0.0105	
0.2135	
	$\begin{array}{c} 0.468^{**}\\ (0.197)\\ \\ -0.067^{*}\\ (0.039)\\ -0.080^{*}\\ (0.043)\\ \\ \\ \\ -0.056\\ (0.043)\\ \\ \\ -0.008\\ (0.043)\\ \\ \\ 0.010\\ (0.140)\\ \\ 0.2135\\ \\ 77\end{array}$

Table 3. Determinants of Migration Density at the City Level

Notes: 1) Standard errors in parenthesis. ***, **, * denote statistically significance from zero at .01, .05 and .1 levels, respectively. 2) The dependent variable is defined as the ratio of permanent migrants to the total population with *hukou* (including permanent migrants) in the city.

Individual Characteristics	Permanent Migrants	Rural Residents	Rural Born Persons = Rural Residents + Permanent Migrants	Proportion of Permanent Migrants among Rural Born (percent)
Gender				
Male (%)	52.10	52.02	52.06	11.52
Female	47.90	47.98	47.94	11.49
Ethnicity				
Ethnic Minority (%)	3.75	13.96	8.86	3.37
Han	96.25	86.04	91.15	12.70
Political Status				
CPC Member (%)	32.85	5 67	19.26	42.98
Not CPC Member	67.15	94.33	80.74	8.47
Age (%)				
<16	5.37	20.72	13.05	3.26
16-20	2.98	11.69	7.34	3.21
21-25	3.54	8.85	6.20	4.95
26-30	6.42	6.72	6.57	11.05
31-35	12.98	7.48	10.23	18.42
36-40	13.85	9.24	11.55	16.31
41-45	8.95	7.10	8.03	14.09
46-50	12.42	8.96	10.69	15.27
51-55	10.84	7.29	9.07	16.20
56-60	7.74	4.65	6.20	17.78
60+	14.91	7.29	11.10	20.01
Education Level (%)				
Primary School and	1447	12 20	20.02	1.00
Below	14.47	43.38	28.93	4.26
Junior High School	25.77	42.02	33.90	7.55
Senior High School	19.49	9.90	14.70	20.77
Technical School	12.49	3.22	7.86	34.08
College and Above	27.78	1.49	14.64	71.31
Mean Age	43.45	33.04	34.24	
Mean Schooling	10.10	6.61	7.04	
Number of observations	4937	37969	42096	11.51

Table 4. Permanent Migrants, Rural Residents and Rural Born by Household Characteristics.

Note: The estimate of the proportion permanent migrants among rural-born is obtained by weighting the urban sample and the rural sample using information on population rates from NBS. The sample of permanent migrants has been expanded to 4937 through random sampling. Before random sampling, the observation of permanent migrants is 4069.

Year of birth	after	1972	1952	- 1971	bef	ore 1951
Gender						
Female						
(Reference)						
Male	-0.175	-0.224	0.062	0.056	-0.061	-0.171**
	(0.183)	(0.186)	(0.055)	(0.055)	(0.070)	(0.072)
Ethnicity						
Han (Reference)						
Minority	-1.977***	-1.922***	-0.982***	-0.979***	-1.434***	-1.483***
	(0.474)	(0.476)	(0.126)	(0.126)	(0.186)	(0.188)
Parents political						
status						
Non party member						
(Reference)						
CPC Member	0.443**	0.429**	0.702***	0.715***	0.602***	0.790***
	(0.213)	(0.215)	(0.063)	(0.063)	(0.117)	(0.121)
Parents' Education						
Both Low						
(Reference)						
other	2.424***	2.437***	1.811***	1.865***	1.665***	1.730***
	(0.298)	(0.300)	(0.058)	(0.059)	(0.073)	(0.076)
Both High	6.659***	6.904***	4.195***	4.250***	2.783***	2.732***
	(1.153)	(1.162)	(0.349)	(0.350)	(0.707)	(0.749)
Age of person		1.687		-0.201***		0.188**
		(1.316)		(0.077)		(0.080)
Age of person squared		-0.027		0.003***		-0.001
_		(0.024)		(0.001)		(0.001)
Constant	-3 336***	-29.036	-2 706***	0.861	-1 667***	_0 7/7***
Constant	(0.290)	(18.049)	(0.055)	(1.542)	(0.059)	(2.459)
	(0.270)	(10.04))	(0.055)	(1.342)	(0.057)	(2.437)
Pseudo R-squared	0.2089	0.2253	0.1585	0.1609	0.1177	0.1565
Number of observations	1100	1100	11709	11709	5612	5612

Table 5. Estimates of Logistic / Probability Model Explaining Permanent Migration

Note) Education both high: Both parents received the education of senior high school and above. other: other cases

Education both low: Both parents' education levels are below Primary School.

Parental political status: at least one parent with CPC membership vs. other cases

Charateristics / Birth cohort	1972 -	1952 - 1971	- 1951
Majority, parents not CPC, education low	0.032	0.064	0.154
Minority, parents not CPC, education low	0.005	0.025	0.042
Majority, parents not CPC, education middle	0.274	0.297	0.490
Majority, parents CPC, education low	0.049	0.123	0.250
Majority, parents CPC, education middle	0.363	0.460	0.689
Proportion permanent migrant in birth cohort	0.173	0.159	0.223

Table 6. Predicted Probability of being a Permanent Migrant.

Note: Predictions based on estimates reported in Table 5 (Specification 1).

	Permanent Migrants	Temporary Migrants	Rural Residents
Gender			
Male	9585	6619	3442
Female	9234	6312	3400
Ethnicity			
Han	10375	6705	3581
Minority	9380	6446	2374
Political status			
CPC Member	11252	6624	4509
Not CPC member	8443	6464	3338
Age group			
16-20	6911	5856	3247
21-25	7773	6592	3414
26-30	8446	6621	3115
31-35	8819	6377	3210
36-40	8816	6525	3285
41-45	8941	6876	3770
46-50	10020	6562	3703
51-55	10564	6523	3791
56-60	10965	6016	3565
60+	10010	4974	3238
Education Level			
Primary school and	7640	E 1 4 4	20/1
below	/648	5144	3061
Junior high school	8206	6781	3413
Senior high school	8735	7131	3932
Technical school	10192	7146	4735
College and above	11333	9690	5337
Total Sample	9417	6469	3422
Number of observations	3842	4084	30100

Table 7. Per Capita Income by Population Categories (Yuan per year)

Note: The number of temporary migrants in the three oldest age groups are, 139, 72 and 67 for 51-55, 56-60, 60+.

	Urban-born Residents		Permanent	Migrants
	0/	Number of	0/	Number of
	%	observations	%	observations
Education Level				
Primary School and Below	4.12	483	7.51	243
Junior High School	26.90	3154	25.57	827
Senior High School	31.60	3706	21.68	701
Technical School	10.99	1289	13.23	428
College and Above	26.39	3094	32.00	1035
Ethnicity				
Han	95 53	11233	96 14	3112
Minority	4.47	525	3.86	125
Marital status				
With Spouse	77.41	8958	89.16	2871
Other Marriage Status	22.59	2614	10.84	349
Political status				
CPC Member	21.56	2485	33.46	1065
Other Political Status	78.44	9041	66.54	2118
Employed	<i>c</i> 1 90	7619	72 40	2277
Employed Name and a second	04.89	/018	/ 5.48	2377
Non-employed	35.11	4121	26.51	858
OI WILCH,	11.00	1209	0.92	210
Ketifed Students	11.00	1298	9.82	518 125
Students	11.51	1552	3.80 2.90	125
Housewives	1.51	1//	5.80	123
othere	10.50	1239	8.28	208
others	0.47	55	0.74	24
Father's Education				
Illiteracy	24.98	2107	33.98	945
Primary School	33.69	2842	34.38	956
Junior High School	20.23	1706	18.05	502
Senior High School	13.40	1130	10.46	291
College and above	7.71	650	3.13	87
Mother's Education				
Illiteracy	53.22	4493	66.82	1859
Primary School	24.08	2033	21.53	599
Junior High School	11.47	968	7.15	199
Senior High School	8.98	758	4.21	117
College and above	2.25	190	0.29	8
Parent's political staus				
Father's Party Membership	24.40	2880	22.14	717
Mother's Party	<i>с</i> 7 0	000	2.05	100
Membership	6.79	802	3.95	128
Year of schooling (Mean)	11.07	11735	11.03	3737
Age (Mean)	39.06	11803	41.03	3238

Table 8. Urban-born Residents and Permanent Migrants by Individual Characteristics. Peopleaged 16-60

Earnings (mean)	12263	7442	12167	2318
Years Since Migration			20.85	3238
Number of Observations		11803		3238

Table 9 Determinants of Being Employed. (Urban residents aged 16-60)

	Males and Females combined	Male	Female
Gender	comonica		
Female (Reference)			
Male	1.198***		
	(0.048)		
Schooling	0.205***	0.146***	0.235***
C	(0.009)	(0.014)	(0.013)
Marital status			
Not married			
Married	0.329***	0.632***	-0.338***
	(0.093)	(0.157)	(0.126)
Political status			
Not party member			
(Reference)			
CPC Member	0.648***	0.454***	0.763***
	(0.065)	(0.094)	(0.095)
Ethnicity			
Minority (Reference)			
Han	-0.047	0.011	-0.061
	(0.126)	(0.192)	(0.172)
Age	0.788***	0.776***	0.919***
	(0.019)	(0.027)	(0.029)
Age Squared	-0.010***	-0.010***	-0.012***
	(0.0002)	(0.0003)	(0.0004)
Region of birth			
Urban China			
(Reference)	0.246***	0 117***	0.002***
Rural China	0.346***	0.44/***	0.293***
	(0.062)	(0.101)	(0.083)
City Dummies (76)	Yes	Yes	Yes
Constant	-15 604***	-14 515***	-16 882***
Constant	(0.435)	(0.643)	0.628)
	(0.+55)	(0.0+5)	0.020)
Pseudo R ²	0.3401	0.3703	0.3365
Log Likelihood	-6282.62	-2595.55	-3423.05
Predicted Correctly %	80.78	85.01	78.71
Number of	14072	7270	7(0)
Observations	14972	/3/0	/002

Note: standard errors in parenthesis.

Category	Pooled Sam	ple		Urban	Permanent	Permanent
	Male and	Male	Female	Residents	Migrants	Migrants
~ .	Female					
Gender						
Female						
(reference)						
Male	0.131***			0.129***	0.134***	0.116***
~	(0.012)			(0.014)	(0.026)	(0.026)
Schooling	0.078***	0.070***	0.090***	0.079***	0.076***	0.074***
	(0.002)	(0.003)	(0.004)	(0.003)	(0.004)	(0.004)
Marital status						
Not married						
(Reference)						
Married	0.104***	0.129***	0.080**	0.105***	0.139**	0.165***
	(0.025)	(0.035)	(0.036)	(0.028)	(0.055)	(0.055)
Political status						
Not party member						
(Reference)						
CPC Member	0.165***	0.181***	0.141***	0.146***	0.201***	0.194***
	(0.015)	(0.018)	(0.025)	(0.017)	(0.029)	(0.029)
Ethnicity	(01010)	(0.010)	(0.020)	(0.017)	(0.0_))	(0.0_))
Minority						
(Reference)						
(Reference)	0.001	0.003	0.030	0.028	0.102	0.004
пан	(0.001)	-0.003	(0.050)	(0.028)	-0.102	-0.094
A = -	(0.055)	(0.042)	(0.034)	(0.058)	(0.070)	(0.070)
Age	0.045***	0.049***	0.042***	0.042***	0.048***	0.036***
	(0.005)	(0.007)	(0.009)	(0.006)	(0.011)	(0.012)
Age Squared	-0.0004***	-0.0005***	-0.0004***	-0.0004***	-0.0005***	-0.0004**
	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)	(0.0001)
Region of birth						
Urban China						
(Reference)						
Rural China	0.058***	0.080***	0.037			
	(0.015)	(0.020)	(0.024)			
Vears Since	(0.015)	(0.020)	(0.02-+)			
Pagaining Hukou						0.018^{***}
кесегинд пикои						(0.007)
						(0.005)
Years after						
Getting Hukou						-0.0003***
Squared						0.0005
						(0.0001)
City Dummies	Yes	Yes	Yes	Yes	Yes	Yes
(76)						
Constant	-0.259**	-0.136	-0.336*	-0.257*	0.068	0.135
	(0.127)	(0.169)	(0.201)	(0.143)	(0.338)	(0.341)
	×/	·····/	····-/	((····/
Adjusted \mathbb{R}^2	0 3271	0 3226	0 3147	0 3213	0 3519	0 3574
Number of	0.3271	5/02	1252	7501	0.5517 72//	23/4
Observations	7045	5475	7332	7301	2344	2344
Observations						

Table 10. Earnings funcitons, urban residents.

Notes (1) the dependent variable is log of hourly wage. (2) standard errors in parenthesis.

	Male	Female	Male	Female
Schooling	0.065***	0.091***	0.064***	0.085***
	(0.005)	(0.007)	(0.005)	(0.008)
Marital status				
Not married				
(Reference)	0 01 4***	0.076	0 005***	0.102
Married	(0.081)	(0.070)	(0.233^{****})	(0.103)
Political status	(0.081)	(0.081)	(0.081)	(0.081)
Not party member				
(Reference)				
CPC Member	0.229***	0.158***	0.226***	0.148***
	(0.034)	(0.054)	(0.034)	(0.053)
Ethnicity				
Minority				
(Reference)				
Han	-0.050	-0.085	-0.049	-0.080
	(0.092)	(0.113)	(0.092)	(0.112)
Age	0.042***	0.069***	0.031**	0.05/***
A an Saunad	(0.015)	(0.021)	(0.016)	(0.021)
Age Squared	-0.0004^{33}	$-0.001^{-0.001}$	-0.0003	-0.001^{44}
Years Since	(0.0002)	(0.0003)	(0.0002)	(0.0003)
Receiving <i>hukou</i>			0.014**	0.018**
8			(0.007)	(0.007)
Years after			()	()
Getting hukou			0.0002*	0.0002
Squared			-0.0002	-0.0002
			(0.0001)	(0.0001)
City Dummies				
(76)	Yes	Yes	Yes	Yes
(70)				
Constant	0.116	-0.277	0.209	-0.233
	(0.500)	(0.515)	(0.504)	(0.520)
			· ·	
Adjusted R ²	0.3501	0.3135	0.3513	0.322
Number of	1381	963	1381	963
Observations				

Table 10. Earnings functions, urban residents. (continuation)Estimates for permanent migrants by gender

Channel to receive Hukou		Formal		Informal		
Employment Sector	White collar	Blue collar	White and Blue collar	White collar	Blue collar	White and blue collar
Male (%)	72.8	67.7	71.9	44.4	47.4	46.6
Han (%)	94.0	96.5	94.4	100.00	98.7	99.1
CPC Member (%)	62.1	32.8	56.9	25.4	7.1	12.3
Married (%)	97.1	96.0	96.9	88.9	87.8	88.1
Age (years)	41.3	40.2	41.1	37.7	38.5	38.3
(average)	13.5	11.2	13.08	11.4	9.1	9.8
Years Since Receiving <i>Hukou</i>	21.1	20.8	21.1	16.1	13.4	14.1
Family Size (mean value)	3.1	3.2	3.2	3.5	3.40	3.4
Hours Worked (per						
vear)	2120	2288	2150	2105	2542	2417
Wage (per year)	14828	10592	14065	14300	8816	10390
Hourly Wage	7.5	5.0	7.0	6.9	3.6	4.6
Log Hourly Wage	1.8	1.4	1.8	1.8	1.0	1.2
Number of Observations	916	201	1117	63	156	219
Composition	82.0%	18.0%	100%	28.8%	71.2%	100%

Table 11. People who have Received Hukou through Formal/Informal Channels by Individual Characteristics. (Employed persons aged 16-60)

Table 12. Decomposition of Income Differential between migrants following career routes and their counterparts with more recent routes

	Differential	% of total	
Total	0.5800	100	
Intraoccupational	0.3466	59.76	
Explained	0.1442	24.86	
Unexplained	0.2024	34.90	
Interoccupational	0.2344	40.24	
Explained	0.1396	24.07	
Unexplained	0.0938	16.17	
Total Explained	0.2838	48.93	
Total Unexplained	0.2962	51.37	

Figure 1. Permanent Migrants as percent of Urban Residents by Age Group (Source: Table 1)





Figure 2a. Per capita income and age for various categories

Note: Adjusted for Schooling and CPC membership



Figure 2b. Per capita income and age for various categories (ratios)

Note: Adjusted for Schooling and CPC membership



Figure 3. Probability of being employed based on estimates presented in Table 9

Notes: predicted at the mean level of schooling, Beijing and assuming the person has Han ethnicity, married and is not a member of CPC.



Figure 4. Predicted Age- Income profile for urban born and permanent migrants arriving at various ages. Log Hourly Wage

Female



Notes: Predicted at the mean level of schooling, Beijing and assuming the person has Han ethnicity, is a member of CPC and married.

- 1: Migrants getting *hukou* before age 20
- 2: Migrants getting hukou between age 21 and 25
- 3: Migrants getting hukou between age 26 and 30
- 4: Migrants getting hukou after age 31
- 5: Urban residents

Appendix

Age group		16-20			21-25	
	Number of observations	Model I	Model II	Number of observations	Model I	Model II
Permanent Migrant	126	3663.79***	3139.86***	143	4358.11***	3167.26***
		(257.88)	(253.88)		(271.10)	(273.27)
Temporary Migrant	249	2608.95***	2406.07***	391	3177.75***	3003.57***
		(185.90)	(182.39)		(169.65)	(165.07)
Rural Resident	4439			3360		
Years of Schooling			308.36***			303.08***
			(19.97)			(19.39)
CPC			450.87			937.38***
			(745.55)			(358.75)
Constant		3247.42***	547.14***		3414.45***	748.07***
		(42.84)	(179.64)		(54.77)	(177.82)
Total Observations		4814	4767		3894	3871
Adjusted R2		0.0736	0.1168		0.1278	0.1816

Table A1. Income Effects of Being a Permanent Migrant: Per capita income

Age group		26-30		31-35		
	Number of observations	Model I	Model II	Number of observations	Model I	Model II
Permanent Migrant	265	5331.31***	3885.21***	531	5609.64***	4085.39***
		(271.82)	(290.88)		(186.16)	(216.85)
Temporary Migrant	803	3506.34***	3235.10***	958	3167.19***	3103.01***
		(170.41)	(169.16)		(147.11)	(145.70)
Rural Resident	2553			2839		
Years of Schooling			340.45***			291.97***
			(27.91)			(24.13)
CPC			401.67			569.80**
			(381.68)			(242.70)
Constant		3115.06***	440.26*		3210.20***	1023.52***
		(83.36)	(232.61)		(73.89)	(190.67)
Total Observations		3621	3591		4328	4285
Adjusted R2		0.1622	0.1963		0.2109	0.2405

Age group	_	36-40			41-45			
	Number of observations	Model I	Model II	Number of observations	Model I	Model II		
Permanent Migrant	564	5530.58***	4112.43***	362	5171.44***	4175.46***		
		(205.77)	(234.21)		(217.37)	(230.56)		
Temporary Migrant	854	3240.37***	3192.93***	309	3106.29***	3059.24***		
		(173.07)	(173.18)		(233.22)	(230.83)		
Rural Resident	3510			2696				
Years of Schooling			256.73***			211.67***		
			(25.66)			(24.39)		

CPC			878.84***			1153.98***
			(228.39)			(210.37)
Constant		3285.05***	1363.13***		3769.58***	2145.96***
		(76.56)	(197.83)		(74.79)	(185.83)
Total Observations		4928	4849		3367	3282
Adjusted R2		0.1589	0.1821		0.168	0.2013
¥						
Age group		46-50			51-55	
	Number of observations	Model I	Model II	Number of observations	Model I	Model II
Permanent Migrant	503	6316.68***	5344.30***	437	6773.23***	5611.94***
Tomporent Migrant	222	(180.91)	(201.54)	120	(217.18)	(239.03)
Temporary Wigram	233	(256.45)	(257.23)	139	(366.74)	(366.37)
Rural Resident	3402	(200.10)	(207.20)	2768	(2001/1)	(500.57)
Vears of Schooling			130 /6***			228 01***
rears or senooning			(21.27)			(26.53)
CPC			1378.07***			902.79***
			(185.00)			(212.49)
Constant		3702.94***	2792.43***		3790.78***	2437.16***
		(64.93)	(143.64)		(80.19)	(165.71)
Total Observations		4138	3968		3344	3189
Adjusted R2		0.2365	0.2584		0.2294	0.2559
Age group		56-60			AGE>60	
	Number of observations	Model I	Model II	Number of observations	Model I	Model II
Permanent Migrant	307	7399.72***	5954.24***	604	6701.58***	5528.50***
Τ	72	(244.59)	(278.01)	76	(160.81)	(188.10)
Temporary Migrant	12	2450.79^{***}	(473.04)	/6	(1005.97***	1324.31***
Rural Resident	1766	(475.57)	(473.04)	2767	(445.59)	(400.80)
Years of Schooling			258.22***			217.86***
CDC			(30.45)			(20.10)
CPC			873.38***			831.75***
Constant		3565 41***	(238.09) 2045 45***		3308 05***	(100.44) 2423 25***
Constant		(94.13)	(193.36)		(67.52)	(105.59)
		0145	2020		2402	0011
Adjusted R2		2145 0.3006	2028		5493 0.332	2811 0.3867

		Pension	s (Yuan)	
Permanent Migrant	580.92**	270.60	592.34**	282.05
	(273.20)	(229.07)	(273.47)	(229.05)
Male	2912.78***	2545.01***	2889.36***	2516.31***
	(232.76)	(195.37)	(233.23)	(195.57)
Retired from Government and Institutions		6216.17***		6228.64***
		(222.96)		(222.76)
Retired from enterprises				
Age	1238.30***	875.52***		
	(369.77)	(309.94)		
Age squared	-8.67***	-6.17***		
	(2.64)	(2.21)		
Aged 60-64				
Aged 65-69			132.72	46.21
			(279.50)	(233.85)
Aged 70-74			960.67***	780.02***
			(320.89)	(268.53)
Aged 75-79			455.65	166.61
			(428.41)	(358.55)
Aged 80+			-568.54	-520.08
City dummies			(631.94)	(528.68)
City duminies				
Constant	-31690.23**	-20080.14*	11941.86***	10611.93***
	(12904.03)	(10814.65)	(853.14)	(715.31)
Adjusted R-squared	0.1709	0.4185	0.1697	0.4189
observations	1904	1904	1904	1904

Table A2. Determinants of pensions among persons aged 60 and older

		Pension	income	
	Male	Female	Male	Female
Permanent Migrant	1116.37***	-320.59	763.19**	-543.99*
-	(382.93)	(379.11)	(326.62)	(302.70)
Retired from Government or			6294.84***	6035.71***
Institutions			(321.76)	(203.06)
Retired from enterprises			(321.70)	(2)3.90)
Aged 60-64				
Aged 65-69	657.49	-416.18	452.08	-353.11
-	(417.92)	(360.46)	(356.08)	(287.64)
Aged 70-74	1899.73***	-546.25	1441.81***	-299.07
-	(448.98)	(457.23)	(383.09)	(365.03)
Aged 75-79	954.00	-145.15	547.88	-223.66
C	(614.65)	(584.29)	(523.88)	(466.23)
Aged 80+	1413.15	-3030.04***	1142.48	-2499.77***
C	(915.60)	(849.78)	(779.90)	(678.55)
City dummies	Yes	Yes	Yes	Yes
Constant	14527.32***	12139.81***	13090.65***	10545.88***
	(1241.03)	(1076.59)	(1059.48)	(862.53)
Adjusted R-squared	0.1223	0.1184	0.3634	0.438
observations	1089	815	1089	81

	Logit Model fo	or belonging to sector A	o employment	E	arnings Functi	on
		50000111	Formal and			Formal and
Route to receive	Formal	Informal	informal	Formal	Informal	informal
Hukou	1 011101		combined	1 01111		combined
Age	0.193**	-0.192	0.125*	0.077***	0.055	0.066***
8-	(0.083)	(0.181)	(0.076)	(0.018)	(0.054)	(0.017)
Age^2	-0.002*	0.003	-0.001	-0.001***	-0.001	-0.001***
8-	(0.001)	(0.002)	(0.001)	(0.0002)	(0.001)	(0.0002)
Schooling	0.405***	0.333***	0.391***	0.045***	0.100***	0.055***
8	(0.039)	(0.073)	(0.034)	(0.007)	(0.019)	(0.007)
Gender	· · · ·		× /			· · · ·
Female						
(Reference)						
Male	-0.057	-0.182	-0.094	0.057	0.141	0.076**
	(0.199)	(0.338)	(0.171)	(0.041)	(0.101)	(0.038)
Marital status						
Unmarried						
(Reference)						
Married	-0.507	0.606	-0.23	-0.039	-0.100	-0.091
	(0.499)	(0.644)	(0.372)	(0.105)	(0.187)	(0.088)
Political status						
Not member of						
CPC (Reference)						
Member of CPC	1.170***	1.227**	1.178***	0.151***	0.212	0.165***
	(0.199)	(0.486)	(0.182)	(0.038)	(0.161)	(0.038)
Rout to receive						
Hukou						
Informal						
(Reference)						
Formal			1.172***			0.237***
			(0.205)			(0.053)
Constant	-8.175***	-1.453	-7.959***	-0.734**	-0.982	-0.823**
	(1.643)	(3.382)	(1.484)	(0.367)	(1.031)	(0.344)
Pseudo R^2	0.1945	0.1557	0.3067			
Adjusted R ²				0.1070	0.1317	0.1858
Sample Size	1117	219	1336	1104	212	1316

Table A 3. Determinants of Employment and Earnings by Channel of Receiving Hukou and by type of Occupation

Rout to receive Hukou	For	mal	Info	ormal		
Employment	А	В	А	В		
Ago	0 000***	0.021	0.006	0.112*		
Age	(0.030^{+++})	(0.021)	-0.000	(0.064)		
$\Lambda = z^2$	(0.019)	(0.467)	(0.064)	(0.004)		
Age	-0.001***	-0.0002	0.0002	-0.001		
~	(0.0002)	(0.0006)	(0.001)	(0.0008)		
Schooling	0.034***	0.020	0.038	0.085***		
	(0.008)	(0.018)	(0.034)	(0.024)		
Gender						
Female						
(Reference)						
Male	0.017	0.314***	-0.053	0.249**		
	(0.423)	(0.109)	(0.167)	(0.116)		
Marital Status						
Not married						
(Reference)						
Married	-0.056	0.377	-0.172	-0.138		
	(0.108)	(0.306)	(0.285)	(0.225)		
Political status	(0.100)	(0.500)	(0.200)	(0.225)		
Not party member						
(Reference)						
(Reference)	0 127***	0.020	0.063	0.120		
cit	(0.040)	(0.105)	-0.003	(0.13)		
0 4 4	(0.040)	(0.105)	(0.218)	(0.233)		
Constant	-0.572	0.16/	1.461	-2.077*		
	(0.408)	(0.884)	(1./13)	(1.193)		
Adjusted R^2	0.0848	0.0344	-0.0774	0.1012		
Sample Size	907	197	61	151		

Earnings Function (cont.)

Endnote:

¹ If not stated, *hukou* in this paper refers to urban *hukou*.

² This section builds on Zhang (1983), Cheng and Selden (1994), Chan and Zhang (1999), Lu (2002), Alexander and Chan (2004), Chan (2004), Wang (2004) and Wu and Treiman (2004).

³ The ordinary soldiers typically return to their villages and become peasants again, though they always have some advantages in productive activities or in other spheres of life compared to their fellows who have no experience from PLA.

⁴ A temporary residence permit (*zanzhuzheng*) has been issued nationwide since 1985 to meet the needs of managing the increased temporary migration from the countryside. Blue Chop *hukou* (*lanyin hukou*) was implemented in the late 1980s and was approved by the Central Government in 1992. Holders of Blue Chop *hukou* enjoy some of the benefits of an urban *hukou* though the benefits vary greatly from place to place. In small cities or towns a Blue Chop *hukou* can be purchased. In large cities, the Blue Chop *hukou* is restricted to investors, house buyers and technicians or skilled workers. In 1997, the State Council selected 450 pilot counties and towns where holders of an agricultural *hukou* can apply for an urban *hukou* after two years of residency if they have stable non-agricultural jobs or income, and legal and fixed housing. However, these new *hukou* recipients cannot obtain the full benefits from an urban *hukou* in practice.

⁵ For more information on the three surveys see Li et al. (2006). The surveys of urban residents and temporary migrants include Beijing, Shanxi, Liaoning, Jiangsu, Anhui, Henan, Hubei, Guangdong, Chongqing, Sichuan, Yunnan, and Gansu. The rural sample includes Beijing, Hebei, Shanxi, Liaoning, Jilin, Jiangsu, Zhejiang, Anhui, Jiangxi, Shandong, Henan, Hubei, Hunan, Guangdong, Guangxi, Chongqing, Sichuan, Guizhou, Yunnan, Shaanxi, Gansu and Xinjiang.

⁶ It could be underestimated, however, since the family members staying in cities with migrant workers are not taken into consideration.

⁷ Information on these variables is obtained from the data.

⁸ Urban and rural population account for 39.09% and 60.91%, respectively, of the entire population of China in 2002, (NBS, 2005). Our rural sample is slightly overrepresented (64.79%) so we expand the urban sample through random sampling while keeping the ratio of permanent migrants in the urban population unchanged.

⁹ There are only very few rural-born individuals with both parents having long educations in our sample.

¹⁰ The parameter estimates are reported in an Appendix 1 of the paper.

¹¹ Another comparison of interest to make is now people from main land China are faring in the labour market of Hong Kong. Liu et al (2004) show a substantial earnings gap between immigrants from main land China and natives, particularly for newly immigrated persons. However, occupational segregation gets smaller as the duration of residence rises and does not exist for immigrants who came to Hong Kong as young adults.

¹² The remaining 1608 working persons did not answer the question, choose more than one alternative route or the alternative "other" as posed in the survey.