本稿は聞き取り調査をもとに執筆したが、ケース数も少なく暫定的な結論といわざるを得ない。今後の課題として、第 1 に保険加入の実態について、派遣会社・請負会社の実態を明らかにする必要がある。第 2 に保険加入の実態や規定要因について、磐田市アンケート調査をもとにさらに踏み込んだ分析が必要である。最後に、インタビューに協力してくださった方々、紹介や通訳の労をとってくださった平峰恵利花氏、ミワ氏に感謝の意を表したい。ただし本文中の記載についてはすべて筆者に責任がある。

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<付録:磐田市アンケート調査自由解答欄の分析>

2005 年度に磐田市にて実施したアンケート調査では、3つの自由解答欄を設けている。 「問1 行政への意見」については123件、「問2 日本人と外国人の共存」いついては126件、「問3 家族と子供の将来」については94件の回答記入があった。これらはすべてポルトガル語で記載であり、分析には日本語へ翻訳されたものを使用した。以下にその結果概要を記す。

問1 行政への意見(123件)

①健康保険(26件)

「行政への意見」については、全部で 123 件の記入があったが、そのうち最も多かったのが保険に関する記入である。特に「健康保険に入りやすくしてほしい」という記入が多かったほか、「どうしてブラジル人は国民保険に入れないのですか。ブラジル人は皆が悪いことをするわけではありません。」という記入も多かった。

より詳細な事例としては、次のような意見がある。「私たちは税金を納めているので国民健康保険に加入する権利があると思います。健康でなければ仕事もできない。その点について市役所でもう少し考えていただけないでしょうか。」「行政は外国人の健康保険の加入を認めたらいい。多くの派遣会社は保険に加入させない。また、短期の仕事で生産が落ちれば解雇になる。外国人の健康と厚生に関して考えてほしい。」

②ことばの問題(15件)

次に多かったのが、ことばに関する記入の 15 件である。第 1 に公共機関や病院への通訳の増員、第 2 に郵便局や予防接種などの情報のポルトガル語への翻訳、第 3 に日系ブラジル人が日本語を学ぶための日本語教室の開催などである。

③各種情報(15件)

また様々な情報を得たいという記入も15件見られた。得たい情報の内容としては、日本

の法律や規則、児童手当以外の子育で情報、母子家庭の情報、障害児教育、障害者の権利 等様々である。「日本での生活上の疑問や不安がなくなるまで、オリエンテーションをして 欲しい」という記入も見られた。

④教育(12件)

教育に関する記入も 12 件あった。特にブラジル人学校の月謝が高いという記入が 6 件と多く見られた。そのほか教育全般についての希望も見られた。「私のように両親の都合で結局日本に住むことになり、ブラジルの中級教育(高校)を出てないけど、日本で大学、専門学校に行きたいと考える人が多い。その場合の手続き、指導、日本語の教育を望みます。」

⑤生活(11件)

生活に関する記入のなかでは、市営住宅に入りやすくしてほしいという意見が 4 件、子供や青年がスポーツができる場所を希望する声が 3 件、ブラジル人の権利に関する意見が 3 件あった。

⑥その他

その他としては、外国人に対する寛大さの不足に関する意見が 5 件あったほか、次の意見のように行政に対する満足も 5 件あった。「行政が私たち外国人の問題に取組んでいて大変満足です。公共サービスには満足しています。いつも親切で速やかに応対してくれました。外国人にとって健康、年金が主な問題だと思います。」

問2 日本人と外国人の共存

①意識(43件)

「日本人と外国人の共存」に関する自由回答欄には、全部で 126 件と、他の設問と比べて最も多い記入があった。そのなかで、意識に関する記入が 43 件と最も多く、なかでも「差別・偏見をなくす」が 14 件と最も多かった。次いで、「お互いを尊重しあう」が 12 件、相互理解 (9 件) などが続く。「私たちは日本人と共同して生活することを望んでいることを理解してほしい。日本社会を壊すことはしませんし、日本人の住む場所を奪うわけではありません。」「差別をなくし、もう少し信用してほしい。友達になるチャンスがほしい。」という記入もあった。

②イベントや文化交流 (39件)

次いでイベントや文化交流が39件であった。そのうち相互理解のための交流イベント開催が22件と多かった。「もっと融合。日本の祭りやイベント、街のまつりのことを教えてほしい。市役所ももっとサポートして外国人の参加が出来るようにする。」という日本のイベントへの参加意向や、「ブラジル人と日本人が共同で行えるイベントを行う」というような共同イベントの開催などが提案されている。

また、「互いの文化について説明しあい、文化や社会の違いを尊重しあう」というような文化交流(17件)についても記入が多くよせられた。

③ブラジル人の問題(14件)

一方で、ブラジル人側の問題を指摘する意見も 14 件と多数見られた。「ブラジル人が公共のモラルを守る等の住民としての自覚を持つべきだ」という意見や、「ブラジル人の中に悪いことをする人がいるからといって全員を悪く思わないでほしい。」という意見も複数見られた。

4)その他

その他には、「共生はとても難しいと思います。働く時間が多いし、仕事では日本人とブラジル人はそれぞれグループで固まってしまいます。」というような共生の困難や、就労改善を求める記入もあった。

問3 家族と子供の将来(94件)

①期待(19件)

「家族と子供の将来」に関する問いでは 94 件の記入があった。なかでも「子供たちに輝く未来が来ることを期待します」というように、未来に期待し願う記述が 19 件と最も多く見られた。「子供はまだ小さいですが可能性はいっぱいあります。よい将来を望みます。」

②中期定住、永住(15件)

将来的にはできるだけ日本で暮らしたいという定住の希望の記入も 15 件と多かった。「困難はどこでもありますが、日本いる以上、子供には日本の学校、保育園に行かせて、日本で将来暮らすことを望んでいます。こちらのほうが経済的に安定しているし、治安がいい。私たちのブラジルでの苦労は子供にさせたくないです。」「ブラジルに帰国することも日本に永住することも可能性としてはあります。行政には外国人の仕事条件、安全などを改善してほしい。」「日本で家を建てたいと思います。そのために永久ビザを取りたい。私は日本語を覚えたいし、子供たちには二ヶ国語を覚えてほしい。」

③教育(14件)

また、将来日本にいるかブラジルに帰るかわからないが、子供にはよい教育をさせたいという意見も 14 件見られた。「子供を大学にいかせて、責任感があって尊敬できる人物になれたらと思います。」「企業の使用者たちは子供たちが安定して働けるような未来にするために、知識を取得する機会を作るように努力するべきだと思います」

④帰国(11件)

一方で、帰国の意思を明示する記入も 11 件あった。「日本で何年か仕事をしてブラジル に帰って家族にもっといい暮らしをさせたいと思います。」

⑤ その他

その他としては、不安については4件と少数であったが、次のような記入もあった。「保険、年金に加入していないので仕事ができなくなったときの不安があります。」そのほか「もっと生活状況をよくしてあげたい」「よりよい未来、よりよい国にするため、通学して能力をつけたり、雇用や健康保険を持つことができることを期待します。」という記入があった。

5. 2004 年磐田市調査等の分析

第5部 第1章

The Differential Incorporation into Japanese Labor market: A Comparative Study of Japanese Brazilians and Professional Chinese Migrants

Hirohisa Takenoshita

Abstract

This paper is an exploratory study on the incorporation of Japanese Brazilian migrants into the Japanese labor market, in comparison with professional Chinese migrants in Japan. Prior studies on newly arrived migrants in Japan have interpreted their opportunity structure in the Japanese labor market in terms of the segmented labor market hypothesis. However, since most of them relied heavily on the qualitative method, many hypotheses have not been examined by quantitative survey data. This study tries to examine both the human capital hypothesis and the segmented labor market hypothesis, using the sample survey data collected in Iwata City, Shizuoka Prefecture. The empirical result does not indicate that Japanese Brazilians are likely to earn more money as they accumulate their human capital, unlike Chinese professionals in Japan. The result highlights that income levels among Japanese Brazilians depend on the labor demand in factories for subcontract workers and the exit/non-exit from labor market for subcontract workers. We thus could not observe the results presupposed by the theory of human capital. In this sense, these two migrant groups are thought to form different segmentations in the Japanese labor market.

Key words; incorporation into Japanese labor market, human capital, labor market segmentation, exit from labor market for subcontract workers

1. INTRODUCITON

This research clarifies the differential incorporation of migrants into the Japanese labor market through a comparative analysis between Japanese Brazilians and Chinese migrants in Japan with regards to income determinants.¹

Although recent social transformation toward globalization has also promoted transnational migration and multiculturalization in contemporary Japanese society, there are few researches on immigrants in Japan in terms of social stratification. Most studies on migrants in Japan have relied heavily on qualitative

anthropological investigation methods. On the other hand, scholars who explored the structure and processes of social stratification in Japan in terms of quantitative methods have neglected ethnic stratification in Japan because they claim that there are a small number of minority populations in Japan (Kosaka 1994: 41).

However, Japanese society includes various kinds of ethnic minorities such as Buraku people, Ainu, the people of Okinawa, as well as Korean and Chinese people who settled down in the prewar era. In addition, the number of migrant workers from Asian and Latin American

countries has risen rapidly due to economic prosperities during the late 1980s and early 1990s and the decrease of seasonal workers from rural areas in Japan. Students of social stratification should no longer overlook the economic inequalities and social stratification among ethnic minorities in Japan (Lie 1996).

This research aims to explore the incorporation of Japanese Brazilian migrants into the Japanese labor market. In order to clarify this, I compare between Japanese Brazilians and Chinese migrants with regards to rates of return on human capital, not only because we cannot clearly understand where they stand in the labor market in Japan without a comparison with other groups, but because they approximately represent two kinds of immigrant groups, including labor immigrants and professional immigrants² and they are typical cases among recently arrived immigrants since the 1980s.

Although the Japanese immigration system doesn't accept foreign unskilled workers in principle, immigrants of Japanese descent have been exceptionally authorized to take any occupation in Japan since 1990. This means that the immigration policy of the Japanese government gives preferences to migrants of the same ethnic origin over other foreign migrants (Kajita 2001). As a result, the number of Japanese Brazilians has increased very rapidly since the Immigration Act was revised in 1990 with regards to how to deal with migrants of Japanese ancestry, and they were incorporated into the labor market in Japan as unskilled but documented foreign workers (Higuchi 2003; Tsuda 2003).

On the other hand, Chinese migrants in Japan consist of several different types of groups, such as Chinese of Japanese ancestry who have permanent visas, undocumented and documented migrants. These different legal statuses reflect their different social backgrounds and current socioeconomic circumstances in Japanese Chinese of Japanese descent come society. from rural areas in China; most of them were farmers and got only primary education before coming to Japan. That leads to their difficulties in socioeconomic attainment as well as cultural adaptation to Japanese society. Many Chinese of Japanese ancestry are actually involved in unskilled manual occupations.3

As for documented Chinese migrants excluding students, many of them have attained tertiary education and are involved in nonmanual occupations. The Japanese immigration policy doesn't accept foreign migrants who are attached to unskilled jobs, though refugees, immigrants of Japanese descent and settlers with permanent visas can attain any types of job. Therefore, if Chinese migrants want unskilled work in Japan, they inevitably have to be undocumented. This research pays attention to documented Chinese migrants involved mainly in professional jobs. Thus, these two groups which this research targets, Japanese Brazilians and documented Chinese migrants in Japan, make up the labor migrants and professional migrants in Japanese society.

In order to clarify the differential incorporation into the Japanese labor market between manual and professional workers, this paper examines the impact of human capital acquisitions on raising the income levels of

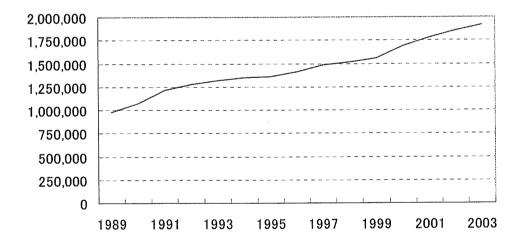
Japanese Brazilians and Chinese migrants in Japan. In other words, I delineate the different economic adaptation processes between Japanese Brazilians and Chinese migrants in Japan.

2. Social Background of newly arrived migrants in Japan since 1980s

Figure 1 shows the number of documented foreign nationals for each year. According to the figure, the foreign population has doubled in the last fifteen years from 1989 until 2003. After the economic recession in the 1970s, the Japanese economy recovered immediately from the economic collapse. In the latter half of 1980s, Japan experienced an economic boom, but the Japanese economy simultaneously faced a serious labor shortage in the manufacturing

and construction industries. In fact, the labor shortage was serious particularly in small to medium sized companies. Some small companies which could not hire enough domestic workers attempted to introduce some workers from foreign countries such as Pakistan, Iran, Bangladesh, Sri Lanka, and so on (Inagami et al. 1993). On the whole, most of them entered Japan on a tourist visa. Since the Japanese immigration policy had not admitted unskilled workers from foreign countries, foreign migrants who were actually engaged in unskilled manual occupations inevitably got undocumented status in Japan. employers knew that they were undocumented migrants, all they had to do was hire them due to the severe labor shortage.4

Figure 1 Populations of Documented Foreign Residents in Japan per year

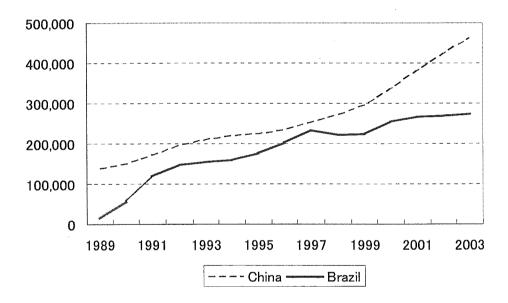


In 1990, the Immigration Act in Japan was revised with regards to employment visa status. In particular, professional occupations were ramified in terms of visa and it seems that through this revision the Japanese government intended to introduce professional and highly skilled migrants from foreign countries. On the other hand, the revised Immigration Act also admitted foreign migrants with Japanese descent to be involved in any sort of occupation such as unskilled jobs. Soon after enforcing the revised law, the number of Latinos with Japanese descent and their family members who entered Japan in order to work as target earners increased rapidly (Miyajima 1993).

Figure 2 indicates the population size of Brazilians and Chinese for each year. While

only 14,000 Brazilians lived in Japan in 1989, the population of Brazilians soon exceeded 100,000 in 1991 and was over 200,000 in 1996. Even though the rate of population growth has decreased since then, the population reached roughly 274,000 in 2003. Latinos with Japanese descent have become one of the largest immigrant groups among newly arrived migrants in Japan (JIA 2004).

Figure 2 Populations of documented Chinese and Brazilians per year



Next, we will take a look at the case of Chinese migrants in Japan. Since the latter half of the 1980s, the Japanese government has been implementing an immigration policy intended to increase the number of students coming from foreign countries to learn at universities in Japan. That policy included a relaxation of immigration control with regards to overseas students as well as improvement in the scholarships for students from abroad. In fact, this policy led to a rise in overseas students, in particular, from East Asian countries such as mainland China and South

Korea. While a policy of deregulating border control toward overseas students increased the number of Chinese students entering Japan on a student visa in order to work, it also increased the number of students who actually aimed to receive tertiary education in Japan. Overseas students who were fortunately able to find jobs continued to stay in Japan after graduating and often worked in the field of their specialty (Tsuboya 1998). In addition, since the Immigration Act revised in 1990 aimed to introduce more and more professional migrants

as mentioned earlier, professional migrants from China, who don't necessarily have educational qualification in Japan, have also risen recently as well as professional migrants with tertiary education in Japan (Tsuboya 2000).

According to Figure 2, the Chinese population in Japan was yet 137,000 in 1989, though this figure included old settlers since the prewar era as well as newly arrived migrants. While the rate of growth was constant and gradual in the 1990s, it has increased rapidly since 2000. The Chinese population grew to over 300,000 in 2000 and exceeded 400,000 in merely two years. In 2003, roughly 463,000 Chinese resided in Japan.

3. Concepts and Hypothesis

There are two important approaches that explain the determinants of earnings among immigrants such as human capital theory (Mincer 1974) and segmented labor market theory (Doeringer and Piore 1971). Human capital presupposes that the rates of return on human capital are constant across all employment sectors. As Chiswick (1978) argues, migrants' economic assimilation approach based on human capital theory not only stresses that immigrants are more likely to raise their income earnings as they had attained higher educational levels and skills before they came to the host society, but it emphasizes that immigrants can catch up to the earnings level of the native population in the host society as they acquire some educational degrees, occupational competences and increase their language fluency after immigration. Thus, human capital theorists argue about an important role of economic assimilation into the host society (Borjas 1982, Chiswick and Miller 1985).

On the other hand, segmented labor market theory implies that returns on human capital and occupational surroundings would depend much on the labor market sectors which they belong to, and indicates that the importance of human capital is divergent among segments of the labor market (Doeringer and Piore 1971). pursues the segmented labor market approach in terms of migration studies. When there are two labor market sectors, such as primary and secondary labor markets, immigrants are often incorporated into the secondary sector which is less stable in terms of job continuation, whose companies are small in size, and where people have few opportunities to climb up the corporate ladder, raise their income level and go into the primary sector (Piore 1978). Segmented labor market theorists imply that the wage gap between natives and immigrants would be constituted by the wage difference between primary and secondary labor sectors since many immigrants are incorporated into the secondary sector.5

Hence, segmented labor market approaches as raised by Piore suppose that migrants would remain at a lower position in the social stratification in the receiving country. contrast, ethnic enclave theorists show that it is possible for transnational migrants to upgrade their socioeconomic statuses by belonging to ethnic enclave labor market sectors, while this is basically based on the theory of segmented labor market. According to Portes and Bach (1985: 203), ethnic enclave is a distinctive economic the spatial formation characterized by

concentration of immigrants who organize a variety of enterprises to serve their own ethnic market and the general population. They think that ethnic enclave would enable immigrants to utilize in the host society their human capitals acquired in the country of origin.

When we take a look at the research on immigrants in Japan, Kajita (1994) explains, based on theoretical considerations in regards to incorporation of immigrants into the Japanese labor market, that migrant workers are actually excluded from internal labor markets and This means that many corporate ladders. immigrants, including both labor migrants and professional migrants, would be incorporated into external labor markets. Therefore, they would face the problems with regards to raising their income levels and socioeconomic statuses even though they improved their job skills, language fluency and educational levels.

Another approach to immigrants' labor markets delineates how labor markets of foreign migrants are segmented along their legal status in the host society. Inagami et al. (1993) did a comparative research on migrants involved in unskilled labor between undocumented South Asian migrants and documented Japanese Brazilians. They pointed out that Brazilians and Asian undocumented workers incorporated into different labor market sectors. While undocumented workers found jobs in small-sized companies through personal relations with others from the same ethnic origin, most Brazilians were sent to large-sized manufacturing companies through recruiting agencies and job brokers. Their qualitative survey suggested that differences in the size of firms at which they worked resulted in the wage disparity between them, and they finally called differential incorporation 'loosely these between transnational structured dualism' migratory groups. Furthermore, it is also argued that immigrant labor markets in Japan are also segmented depending upon the time of arrival and social network structure as well as legal status in Japan (Shimodaira 1999, Tanno 1999). While prior studies thus pay much attention to labor market segmentation within labor migrants, there are few works which compare between labor migrants and other migrants such as professional migrants and so on, or between immigrants and native population with regards to rates of return on human capital.⁶

Moreover, what characterizes a labor market into which Japanese Brazilians are incorporated is the existence of brokerage firms for migrant workers. Many Japanese Brazilians are employed basically as subcontract workers through the agency of brokerage firms (Roth 2002). They are temporal workers who take a role of adjustment in the varied labor demand at each company (Higuchi and Tanno 2003). For how long Brazilian subcontract workers belong to a company is dependent on temporal and seasonal changes in the output level of each Therefore, some students suppose company. that many Brazilian subcontract workers would be involved in unskilled dead-end jobs and that it would be difficult for them to improve their job skill level and upgrade income earnings. Hence, these prior studies have emphasized the divergences in incorporation into the labor market between Brazilian and native Japanese workers (Tanno 1999).

While many sociologists have explained the economic situations of immigrants in Japan based on qualitative data in terms of segmented labor market theory, there are only a few studies which explore earnings among immigrants, quantitative upon survey relving Cornelius and Tsuda, drawing on data from a comparative study of the role of immigrant labor in the U.S. and Japanese economies, compared the impact of human capital on hourly wage earnings between immigrant workers in San Diego, the U.S. and Hamamatsu, Japan. They indicated that the human capital acquisitions which they brought from their home country and which they attained after entry into Japan had no significant influence on raising income levels, whereas immigrants who had more English fluency and years of schooling were more likely to raise their earnings in the U.S. In addition, they showed that there were significant earning gaps by gender and ethnicity among foreign workers in Japan. Men or Nikkeijin were likely to earn more money than their counterparts, women or other foreign migrants. I think that these results provided the evidences to support the segmented labor market hypothesis in terms of gender and ethnicity (Cornelius and Tsuda, 2002).

On the other hand, my prior research which targeted Chinese migrants in Japan who are mainly engaged in professional jobs also examined the effect of human capital on increasing income level. My research on professional Chinese migrants finally clarified the important role of human capital such as educational credentials acquired in Japan and Japanese language fluency (Takenoshita 2005a).

Thus, it seems that there are different results among different ethnic groups regarding which hypothesis such as human capital hypothesis or segmented labor market hypothesis explains the economic wealth of transnational migrants in Japan. Therefore, it is necessary for us to examine their validity toward Japanese Brazilians who make up a part of the labor migrant population in Japan, compared with professional Chinese migrants.

4. Data

In this study, I analyze three survey data. Before going to the comparative analysis of income determinants between Brazilians and Chinese migrants, I compare career mobility in transnational migration between Latinos and East Asian populations, based on the representative data. In doing so, we can grasp continuities and discontinuities of career mobility in transnational migration as well understand how migrants have been incorporated into the Japanese labor market. In order to grasp career mobility, this paper 'the Current Survey on Foreign employs Residents in Kanagawa' conducted by the Kanagawa Prefectural government in 1999. This survey adopted a systemic sampling method. Samples were drawn from the population of foreign nationals over the age of 18 registered in each city government in Kanagawa. Kanagawa government mailed 3,024 samples, even though 315 questionnaires did not reach foreign nationals. The response rate of 37.2 percent yielded a usable sample of 1,007 (CPFRK 2001).

As for Japanese Brazilians, I use 'the

Current Survey on Foreign Residents in Iwata,' conducted by the Iwata municipal government in Shizuoka Prefecture in 2004. Statistics on the population of foreign nationals indicate that there were 274,700 Brazilian residents in Japan in 2003 and that 15.1 percent of Brazilians in Japan were living in Shizuoka. In fact, approximately half of the Japanese Brazilian population is concentrated in the Tokai area (JIA 2004).

Statistics on the registration of foreign nationals in Iwata city indicate that about 3,700 Brazilians lived there in 2004. The proportion of Brazilians to all foreign nationals registered here is roughly eighty percent. Thus, the ratio of Brazilians out of all documented foreign residents is extremely high. Japanese Brazilians have usually been in cities like Iwata, where the manufacturing industry such as the electronic and motor industries is concentrated.

The Brazilian Survey relied upon a probability sampling method, even though it employed another supplementary sample. First, samples of Brazilians were drawn from the Brazilian population over the age of 18 living in Iwata city. The list used to draw this sample was taken from the Foreign Nationals Registry held by the Iwata city government. Secondly, when interviewers failed to receive survey responses from respondents due to reasons such as refusal of research and so on, they conducted interviews of other supplementary samples extracted from the list of Foreign Nationals Registry. The survey was finished when five hundred questionnaires were collected from the This means that we cannot respondents. calculate an exact response rate of this survey.

The questionnaire written in Portuguese was used in the survey. The samples of this research are limited to employed men, and responses from 202 respondents will be analyzed in the end.

As for Chinese migrants in Japan, I employ the data collected in 1999 by the 'Survey on family and social networks of Chinese residents in Japan,' in which I also participated.⁷ The questionnaire of the survey was designed in Japanese at first, and translated into Chinese. Chinese migrants' We requested some associations to cooperate with our research activity, and asked members of such associations to answer our questionnaire.8 We handed out 868 questionnaires to Chinese migrants through these associations and 148 respondents replied.9 The samples of this research are limited to employed men and responses respondents will be analyzed in the end¹⁰.

5. Measurement

Based on 'the Current Survey on Foreign Residents in Kanagawa,' I examine career mobility accompanied with transnational migration compared between the Latino and East Asian population. 11 In comparing distribution of occupations in the sending country and current occupations in Japan, I five categories of occupation: choose professional, managerial, clerical, sales and service, and manual jobs.12

In addition, although I make use of data from surveys like the Brazilian Survey and Survey on Chinese Migrants in order to clarify different modes of incorporations into Japanese labor markets, they were not originally designed to be used for a comparative study. Each survey actually measures variables using different wordings and scales even though there are many similarities between them with regards to the substances of variables. Consequently, I have to make adjustments with respect to the operationalization of these variables before analyzing the two datasets.

This research makes use of the following variables in order to examine the causal relationship between human capital and income from a comparative perspective. As for independent variables, it utilizes education in their home country, education in Japan, period of stay in Japan, Japanese proficiency and age as the measured variables of human capital. As for dependent variables, I employ natural logarithm of income.

Education-related variables, period of stay in Japan and age are measured in almost the same way. In regards to education in both countries, I code those with no education as zero, those who completed elementary education as one, those who completed secondary as two, junior college graduates as three, four-year college graduates as four, and those who completed a MA or more as five. Period of stay in Japan and age are coded in the format of real numbers.

However, language proficiency and income have substantial differences with regards to the wording of the question between the two surveys. Although language proficiency is similarly measured in terms of conversation skills in both surveys, they are actually divergent in the options of answer. While the Brazilian Survey, in measuring language proficiency, words its

question in the following way--whether one can speak Japanese or not, the survey on Chinese migrants gives respondents four answer options to this question: 'one can speak about complicated topics in Japanese,' 'one can speak about easy topics in Japanese,' 'one can give greetings in Japanese,' and 'one cannot speak Japanese at all.' As a result, while I code those who can speak Japanese as one and the rest as zero for Japanese Brazilians, I give numbers ranging from zero to three to each answer option for Chinese counterparts. In this case, Chinese respondents with higher language scores are supposed to be more proficient speakers of the Japanese language.

In addition, it is income that is measured in a different way between both surveys. While the Brazilian Survey asks respondents about monthly individual incomes, the survey on Chinese migrants inquires respondents about yearly household incomes. In order to reduce the substantial differences between them, the Chinese respondents whose spouses have an occupation are excluded out of the dataset. In other words, this analysis is limited to Chinese men who belong to a household with a single earner. I suppose that this operation enables us to regard household income among Chinese respondents as an individual's to some degree. Moreover, numerical adjustments are made so that the monthly income of Japanese Brazilian respondents is represented in yearly income. Thus, the differences in variables between both surveys are accommodated for before analyzing the datasets.

Furthermore, work time per week, frequencies of job shifts and employment status

are used for the analysis of Japanese Brazilians. Work time and frequencies of job shifts are coded in the format of real numbers. Employment status is a dummy variable, and those who work as a subcontract worker are coded as zero and those who work as a self-employed or an employee are coded as one.

6. Results

Table 1 shows the result of the distribution of both occupations migrants had in the sending country and their current occupations in Japan by region of origin. It greatly differs by region how immigrants have followed their career path in going beyond national borders. Indices of dissimilarity indicate that there are less differences between occupations in their home country and current occupations in Japan for respondents who came from East Asia than those who came from Latin America. 13 This means that there are larger numbers of Latinos who have to change their type of occupation in moving beyond national borders than East In addition, while an index of Asians. dissimilarity with regards to occupation in the country of origin between East Asians and Latinos is 33.0, a dissimilarity index with respect to current occupation between them is 61.0. This result implies that the difference of the distribution of occupation between them is enlarging through geographic mobility from country of origin to Japan.

Table 1. The distribution of occupations in the country of origin and Japan

,		Managerial	Professional	Clerical	Sales	Manual	Sum	I.D.
East Asian	Country of origin	10.4	57.1	14.9	5.8	11.7	100(154)	28.4
Countries	Japan	10.3	36.2	7.6	23.8	22.2	100(185)	
Southeast Asian	Country of origin	13.7	27.5	31.4	15.7	11.8	100(51)	58.0
Countries	Japan	4.5	10.6	3.0	12.1	69.7	100(66)	
Other Asian and	Country of origin	21.7	30.4	21.7	13.0	13.0	100(23)	44.2
African Countries	Japan	10.8	16.2	2.7	21.6	48.6	100(37)	
Latin American	Country of origin	18.5	30.9	29.6	16.0	4.9	100(81)	78.2
Countries	Japan	3.0	5.0	3.0	5.9	83.2	100(101)	
Western	Country of origin	8.7	58.7	15.2	13.0	4.3	100(46)	21.5
Countries	Japan	6.6	80.3	3.3	6.6	3.3	100(61)	
Sum	Country of origin	13.4(47)	45.7(160)	21.1(74)	10.9(38)	8.9(31)	355(100)	38.2
	Japan	7.3(33)	29.8(134)	4.9(22)	15.6(70)	12.4(191)	450(100)	

Note: Figures in this table are percent by row.

I.D. means an index of dissimilarity regarding a proportion of occupation between country of origin and country of destination.

A direct comparison between Latinos and East Asians suggests that there is much divergence with regards to the distributional change in occupation of professional and manual workers in transnational migration. Roughly 80 percent of Latinos who were involved in

professional jobs before entering Japan moved to another occupation, though 37 percent of East Asians who were involved in professional jobs in their country of origin changed their jobs in Japan. Moreover, while the proportion of East Asian manual workers in Japan is approximately twice as large as the proportion of manual workers in their country of origin, the proportion of Latino manual workers is sixteen times larger in Japan than the proportion of manual workers in their home country. Thus, although some East Asians can keep working in professional occupations even after entering Japan, many Latinos face downward mobility occupations like professional, nonmanual clerical and managerial positions to manual The result of career mobility occupations. among foreign residents in Kanagawa suggested that Latinos including Brazilians, Peruvians and so on are more likely to be confronted with discontinuities in career mobility than East Asians.

Next, I compare between Japanese Brazilians and Chinese migrants with regards to the effect of human capital on income attainment. Tables 2 and 3 indicate basic statistics and correlation matrix among Chinese migrants and Japanese Brazilians. First of all, we notice the divergences with respect to mean and standard deviation of education both in the sending and receiving country. Educational qualifications are higher among Chinese migrants than their counterparts, Japanese Brazilians.

Table 2 Basic Statistics and Correlation Matrix among Chinese Residents in Japan

	N	Mean	Standard Deviation	1		2		3	
①ln Income	57	6.313	0.622				***************************************	A CONTRACTOR OF THE PROPERTY O	
②Education in China	57	4.035	0.865	-0.055					
③Education in Japan	57	3.316	2.300	0.464	**	-0.068			
4 Period of Stay	57	8.658	4.819	0.440	**	-0.323	**	0.621	**
⑤ Japanese Proficiency	57	2.737	0.518	0.147		-0.019		0.370	* *
⑥Age	57	38.47	6.464	0.030		-0.051		-0.064	
	4		(5)						
①ln Income									
②Education in China									
③Education in Japan									
4 Period of Stay									

0.112

⑤ Japanese Proficiency

6 Age

And besides, mean and standard deviation of age are also different between them. Chinese respondents are on average around six years older than their Japanese Brazilian counterparts. Even though the figures for

0.267 * 0.343 **

language proficiency are different as well, they seem to depend partly upon the different measurement scale as mentioned earlier. On the other hand, there is actually a resemblance with respect to the period of stay between them.

⁺ p < .10 * p < .05 ** p < .01

Both Japanese Brazilians and Chinese respondents have on average lived in Japan for

roughly eight years.

Before going to the result of the regression

Table 3 Basic Statistics and Correlation Matrix among Japanese Brazilians

Company of the Compan			O4 1 1				participation of the second second	
	N	Mean	Standard	(1)		2	3	
	_ T _ 4	1/10411	Deviation	•				-
①ln Income	219	5.908	0.245					
②Education in Brazil	201	1.751	0.786	0.140	*			
③Education in Japan	215	0.121	0.551	-0.024		-0.045		
Period of Stay	217	7.899	4.974	0.073		-0.054	0.154	+
⑤Japanese Proficiency	218	0.468	0.500	0.145	*	-0.039	0.017	
⑥Age	212	32.547	9.495	-0.015		-0.008	0.052	
7 Work Hours per Week	221	53.199	11.101	0.208	**	0.086	0.011	
®Frequencies of Job Shift	197	2.274	2.670	0.054		0.020	0.175	**
	221	0.104	0.306	0.095	+	-0.085	0.253	**

4	⑤	6	7	8

①ln Income

+ p < .10 * p < .05 ** p < .01

Note: Basic statistics and correlation coefficients are calculated to use a pairwise deletion method because each regressed equation model actually has different numbers of samples due to employing a listwise deletion procedure.

analysis, we take a look at peason's correlation coefficients between variables. First, when we see the matrix of correlations among Chinese respondents, we notice significant positive correlations between income earnings and other variables such as education in Japan and period of stay. As Chinese migrants went on to higher educational levels and stayed in Japan for a longer time, they are more likely to have higher income earnings. When we pay attention to relations between independent variables, we find some significant correlations. Especially, the

peason's coefficient between education in Japan and period of stay is the highest of all. Since it exceeds 0.6, I can't simultaneously examine the impact of two variables on income earnings in the regression analysis, due to the possibility of multicollinearity. Therefore, their effect on income has to be estimated in each separate model.

Second, when we take a look at the result of correlations among Japanese Brazilians, there are three positive significant relations between income and variables related to human capital

②Education in Brazil

③Education in Japan

⁴ Period of Stay

⑤ Japanese Proficiency 0.278 **

⑥Age 0.452 ** 0.201 **

⑦Work Hours per Week 0.024 -0.007 0.001

[®]Frequencies of Job Shift 0.304 ** 0.256 ** 0.056 -0.027

[©]Employment Status 0.058 0.127 * 0.052 0.021 0.162 *

such as education in Brazil and Japanese language proficiency. If we pay attention to the difference of coefficients between Japanese Brazilians and Chinese migrants, we find that these coefficients among Brazilians are greatly lower than their Chinese counterparts. means that the degree of correlation between human capital and income earnings among Brazilians is weaker than their Chinese counterparts. When we take another look at correlations between independent variables, the coefficient between period of stay and age is the greatest of all (0.452). In addition, although correlations between education in Japan and period of stay in Japan are significant among Japanese Brazilians as well, the figure among Brazilians is much lower than their Chinese counterparts. It seems that we don't have to be as worried about the possibility of multicollinearity among Japanese Brazilians as with Chinese migrants.

Among Japanese Brazilians, I construct five equation models in the regression analyses in order to compare them with Chinese migrants. In the first two models, the main effects of education in Japan and period of stay on income earnings are estimated separately without controlling for the correlation between them. Finally, in the last three equation models, the effects of two variables on income level are examined altogether.

Table 4 Multiple Regressions predicting In income among Chinese residents in Japan

	Mode	1 1	Model 2		
	В	β	В	β	
Constant	5.827 **		5.877 **		
Education in China	-0.014	-0.020	0.075	0.104	
Education in Japan	0.130 **	0.481			
Period of Stay			0.067 **	0.516	
Japanese Proficiency	-0.046	-0.038	0.033	0.028	
Age	0.006	0.064	-0.014	-0.144	
N	57		57		
F-value	3.674 *		3.684 *		
ADJ-R2	0.160		0.161		

⁺ p < .10 * p < .05 ** p < .01

Tables 4 and 5 indicate the result of multiple regressions predicting natural logarithm of income among Chinese migrants and Japanese Brazilians. When we see the results for Chinese migrants, we notice that educational qualifications in Japan and period of stay in Japan have significant impacts on income earnings, even though these equations can't

control the correlation between educational levels and years of stay. Almost similar tendencies between peason's correlation and multiple regression analysis are clarified with regards to the relationship between income and other human capital variables. As Chinese went onto higher educational levels and lived in Japan for a longer period, they are more likely to

earn more income.

Next, we take a look at the coefficients of regressed equations among Japanese Brazilians. Despite the significant correlations between income, education in Brazil and language proficiency, Model 1 suggested that only Japanese proficiency has the significant impact on raising their income level. This means that

as Brazilians speak better Japanese, they are likely to earn more money. Moreover, when I add up the period of stay in Japan to the models, the relevant effect of language skills is lost both in model 2 and 3. Even in model 3, income earnings are not dependent on any human capital acquisitions.

Table 5 Multiple Regressions predicting In income among Japanese Brazilians

	Model	1	Model	2	Model	3
	В	β	В	β	В	β
Constant	5.85 **		5.852 **	alle des sois sir-	5.851 **	
Education in Brazil	0.031	0.101	0.033	0.108	0.032	0.107
Education in Japan	-0.017	-0.033	Are der man son		-0.022	-0.043
Period of Stay	NO 422 NO 825		0.004	0.092	0.005	0.098
Japanese Proficiency	0.069 +	0.143	0.059	0.123	0.059	0.122
Age	-0.001	-0.042	-0.002	-0.087	-0.002	-0.084
N	194		194		194	
F-value	1.51		1.761		1.473	
ADJ-R2	0.01		0.016	migraeography and a property and a p	0.012	

Table 5 (Continued)

	Mo	odel 4		Mode	el 5
	В	β		В	β
Constant	5.850 *	*	Constant	5.849 **	40 th ex to
Education in Brazil	0.046 *	0.153	Education in Brazil	0.038	0.126
Education in Japan	-0.022	-0.043	Education in Japan	-0.036	-0.074
Period of Stay	0.003	0.073	Period of Stay	0.002	0.046
Japanese Proficiency	0.053	0.110	Japanese Proficiency	0.040	0.083
Age	-0.002	-0.092	Age	-0.003	-0.107
N	179		Work Hours per Week	0.004 *	0.206
F-value	1.585		Frequencies of Job Shift	0.003	0.026
ADJ-R2	0.016		Employment Status	0.105 +	0.134
			N	159	
			F-value	2.043 *	
			ADJ-R2	0.050	

+ p < .10 * p < .05 ** p < .01

Note: The respondents who work for less than 20 hours per week are excluded out of the dataset in Model 4 and 5.

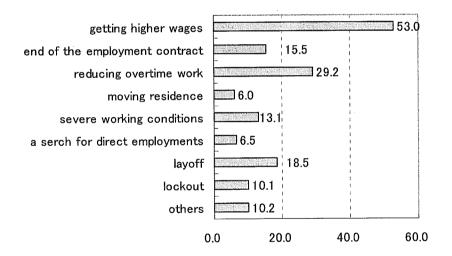
What is supposed as one of the reasons for the statistical results mentioned above is that

inclusion of respondents who work for a very short time per week into the dataset might prevent us from finding the actual causal relationship between human capital and income. Therefore, I have decided to exclude in model 4 respondents who work for less than twenty hours per week from the dataset. Model 4 clarified the income dependence on education in Brazil. It represents that Brazilians of Japanese descent with higher educational credentials in Brazil are more likely to obtain higher income levels.

When we compare between Brazilians and Chinese with regards to the degree of dependence of income earnings on human capital, adjusted coefficients of determination (R^2_{adj}) show that the total impact of human

capital among Japanese Brazilians is absolutely weaker than their Chinese counterparts. A coefficient of determination among Brazilians is around 0.015 in any model while it is roughly 0.16 among Chinese. Thus, the income level of Chinese is roughly ten times more dependent on human capital than their Brazilian counterparts. In other words, it would be quite difficult for Japanese Brazilians to raise their income level compared with professional Chinese migrants, even if they got higher educational credentials, stay in Japan for a longer period and can speak Japanese better.

Figure 3 The reason of job shift (N=151)



Note: This question is answered by the respondents who have changed their jobs in Japan.

What factors instead of human capital then condition the salary among Brazilians with Japanese ancestry? What I suppose is that factors related to conditions of labor market to which Japanese Brazilians belong might be important in determining their income level. Therefore, in model 5, work hours per week,

frequencies of job shifts and employment status are added up into a regression equation for the following reasons.

First, work hours per week are supposed to represent labor demand in a company where respondents work. What it means is that income earnings among Brazilians would be much dependent upon labor demand conditions since many of them are subcontract workers. Second, it seems that Japanese Brazilians would change their job in order to attain a higher salary. Actually, Figure 3 which represents the results of the Brazilian Survey with regards to reasons of job shifts shows that 53 percent of respondents who have changed jobs in Japan aim to get higher wages.

Third, I think that their income levels might be lowered by the situation of the labor market specific to subcontract workers. Subcontract workers form a part of the flexible labor forces in the manufacturing industry. Many Brazilians are employed on short-term contracts

Table 6 Multiple regressions predicting work hours per week

	Mode	el 6
	В	β
Constant	52.197 **	
Education in Brazil	1.048	0.075
Education in Japan	-0.168	-0.007
Period of Stay	0.037	0.017
Japanese Proficiency	-0.398	-0.018
Age	-0.032	-0.027
N	181	
F-value	0.236 +	
ADJ-R2	-0.022	

Model 5 in Table 5 suggests that two variables such as work hours per week and employment status have the significant effect on raising income earnings, even though the impact of education in Brazil has been lost. It demonstrates that the degree of labor demand in a company and labor market sector actually have greater impact on determining the earnings of Japanese Brazilians than human capital

by job brokers who, in turn, send them to their actual workplaces in subcontractor's factories (Yamanaka 2000). Therefore, companies can easily fire subcontract workers as soon as the demand for factory products declines, and they don't have to employ surplus labor. In a sense, Brazilians function as a shock absorber of labor supply between economic booms and recessions. I suppose that the status of subcontract workers leads consequentially to lowering the income level. It might be required to change labor market sectors from subcontract work into standard employment or self-employment so that workers can increase their earnings.

Table 7 Logistic coefficients predicting employment status

1	0 1 2
	Model 7
	В
Constant	-2.522 **
Education in Brazil	-0.467
Education in Japan	0.469
Period of Stay	-0.018
Japanese Proficiency	0.677
Age	0.025
N	181
-2LL	115.151
χ2	6.435
Nagelkerke R2	-0.022

acquisitions. On the other hand, frequencies of job shift have no impact on increasing their earnings. Although Brazilians of Japanese descent have changed the job broker which they belong to, their income level has not improved at all as they had expected.

While we found the labor demand and labor market sector to be important among Japanese Brazilians in Model 5, it is probable that human