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# ECONOMIC ASSIMILATION OF CHINESE IMMIGRANTS IN THE UNITED STATES: IS THERE WAGE CONVERGENCE WITH NATIVES?

Funis Wu

#### I. INTRODUCTION

Asian Americans have a long and profound history in the United States, and are usually referred to as the "model minority". While the income level of immigrants depends on various factors, existing literature suggests that immigrants who can adapt well and are relatively successful in their new jobs can make a significant contribution to economic growth (Borjas, 2009).

Assimilation and human capital theories explain the income determinants for individuals, especially immigrants, in the labor market. Based on Chiswick's studies (1978) using cross-section data in the 1970s, the age-earnings profiles of immigrant and native men show that upward mobility is an important aspect of the immigrant experience (Borjas, 2009). Despite findings from the age-earnings profiles, however, past research has found that there still seems to be a wage gap between Asian Americans and natives. Studies suggest that Asian immigrants' earnings are about 75% of native-born white Americans' earnings (Min, 2006); mass media reports also show that Asian American men are paid up to 29% less than equally qualified white males (Debusmann, Jr., 2010).

The number of Chinese immigrants in the U.S. has increased significantly over the years. According to the U.S. Census Bureau, there are 3.8 million Asians of Chinese descent in the U.S. in 2009, making it the largest Asian group in the country (2009 American Community Survey, 2009). The Asian population is projected to climb to 40.6 million by 2050, which will make up 9.2 percent of the nation's population (U.S. Census Bureau, 2008). The continuously increasing number of Chinese immigrants in the U.S. raises concerns regarding the living situation of this particular ethnic group. It poses the auestion of what determines Chinese immigrants' performance in the U.S. labor market, if there is an income gap between Chinese immigrants and natives, and whether assimilation and upward mobility still apply to immigrants nowadays.

By looking for any income disparity between the immigrants and the natives, this research investigates the impact of assimilation on the level of earnings for Chinese immigrants in the United States. This paper also examines income determinants for Chinese immigrants by applying the assimilation and human capital theories. The research is built upon theoretical models developed from related studies, and focuses on income differences between Chinese immigrants and natives using the latest census data and observations. The study aims at re-examining the existing conclusions reached from past data and making meaningful conclusions that reflect the current living situation of Chinese immigrants in the U.S.

#### II. THEORY AND LITERATURE REVIEW

#### A. Assimilation

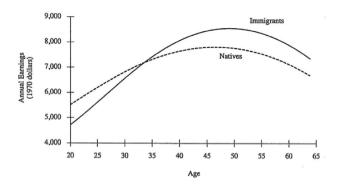
The assimilation theory describes the process that immigrants use to adapt and become acculturated to the host country. It is defined by William Clark (2003) as "a way of understanding the social dynamics of American society that it is the process that occurs spontaneously and often unintended in the course of interaction between majority and minority groups."

Waters and Jeménez (2005) state that today's immigrants are largely assimilating into the American society along four dimensions: socioeconomic status, spatial concentration, language assimilation, and intermarriage. After migration takes place, immigrants find themselves in a foreign and sometimes hostile environment. A learning process about the host country's cultural, political and economic characteristics begins to take place and the immigrant begins to "assimilate" (Borjas, 1989). In general, immigrants and

their descendants become more similar to natives over time by improving their language skills and acquiring local human capital. They may also become more similar to natives in their legal status by obtaining long-term residency and work permits, or by marrying natives and becoming naturalized citizens (Schaeffer, 2006).

Residential patterns have a significant impact on the immigrants' income. Early studies of Chiswick (1978) use cross-section data that displays a snapshot of the population at a point in time to trace out the age-earnings profiles of immigrants and natives. Figure 1 shows the age-earnings profiles of immigrant and native men in the cross section and allows comparisons of current earnings between newly arrived immigrants and immigrants who migrated years ago (Borjas, 2009).

Figure 1: Age-Earnings Profiles of Immigrant and Native Men in the Cross Section (Borjas, 2009)



Observations of the age-earnings profile suggest that immigrants' earnings are initially lower than the native level, and the immigrant curve is steeper than the native's. Gradually, immigrants reach the same level of income with natives while eventually earning more than natives. A typical immigrant who has been in the U.S. for 30 years earns about 10% more than comparable natives (Borjas, 2009).

Even though Borjas argues that cohort effects might contribute to the appearance of wage convergence when in fact there is none, Chiswick et al. still conclude in later studies that duration in the destination plays an important role concerning the economic adjustment of immigrants in the host country (Beenstock, Chiswick, & Paltiel, 2010). By testing the immigrant assimilation

hypothesis with longitudinal data, Chiswick et al. further develop the theory that long-duration immigrants experience a steeper increase in earnings from 1983 to 1995 (Beenstock, Chiswick, & Paltiel, 2010).

Besides length of stay in the host country, researchers have long emphasized the importance of education on an immigrant's income level. Studies of Asian Americans' income show that education helps immigrants to become acculturated and subsequently to assimilate to some degree (Barringer, Takeuchi, & Xenos, 1990). For example, research shows that sharp differences exist in the time use between immigrants and natives, and that an increasing amount of time spent on activities including education helps immigrants to become assimilated to the host country (Vigdor, 2008).

# B. Human capital

Borjas (2005) defines human capital as a unique set of abilities and acquired skills that each of us brings into the labor market. Human capital theory even more directly asserts the enhancing impact of education on the living situation of minorities (Barringer, Takeuchi, & Xenos, 1990). Human capital theory suggests that success in school and high levels of formal education increase the prospects for better paying, higher status, and more satisfying employment (Barringer, Takeuchi, & Xenos, 1990).

Borjas (2005) suggests in his schooling model that schooling can play a signaling role in the labor market, indicating to employers that the worker carrying the certificate or diploma is a highly productive worker. His model implies that the signaling value of education can help firms to differentiate highly productive workers from less productive workers. In addition to the signaling aspects of education, human capital theory suggests that education helps a worker to actually improve productivity and become more marketable, thus increasing one's earnings in accordance.

Based on the assimilation theory and human capital theory, my research attempts to answer the question of how much influence assimilation has on income level after controlling for human capital factors. Specifically, this research examines how length of stay in the host country helps Chinese immigrants to close the income gap

with natives. Instead of plotting earnings against age, this research looks for relationships between the change in the wage level and the years of experience in the United States. By separating the effect of age from the effect of experience in the host country, the research specifically tests the assimilation theory with the latest cross-sectional data on Chinese immigrants and natives. I hypothesize that:

- 1. Human capital factors have a significant influence on a Chinese immigrant's income level nowadays.
- 2. The more assimilated a Chinese immigrant is, the closer the income parity with natives, controlling for other factors that are known to affect income. Specifically, the longer a Chinese immigrant stays in the U.S., the closer the income parity with natives, controlling for other factors that are known to affect income.

#### III. DATA

The data in this research paper comes from IPUMS CPS (Current Population Survey) database. IPUMS-CPS is an integrated set of data from 50 years (1962-2011) of the March Current Population Survey (CPS). It is a monthly U.S. household survey conducted jointly by the U.S. Census Bureau and the Bureau of Labor Statistics (IPUMS-CPS, 2011).

All data in this research comes from the latest available CPS administered during March 2011. Samples include U.S. born and Chinese born individuals who are between the age of 25 and 65 and working more than 35 hours per week. The data for natives contains 54,698 observations and the data for Chinese contains 604 observations. The large sample size makes the research and results largely representative of the population.

## A. Dependent variable

LnWage is used to measure level of income. The variable Wage and Salary Income indicates each respondent's total pre-tax wage and salary income – that is, money received as an employee – for the previous calendar year. The natural log of wage measures how fast income grows given one unit of change for a given variable.

# B. Independent variables

## 1. Assimilation

Year of Immigration is used to measure the individual's extent of nativity based on the assimilation theory. This variable reports the year in which a person born outside the United States came to the U.S. to stay.

# 2. Human capital

Usual Hours Worked Per Week (last year) is used to measure the individual's work experience based on the human capital theory. It reports the number of hours per week that respondents usually worked if they worked during the previous calendar year. Individuals either reported hours working at a job or business at any time during the previous year or acknowledged doing "any temporary, part-time, or seasonal work even for a few days" during the previous year (IPUMS-CPS, 2011).

Education Attainment is used to measure an individual's level of education based on the human capital theory. This variable is recoded into a set of dummy variables:

- HighSchoolDiploma
- SomeCollege
- Bachelors
- Masters
- Professionals
- Doctors

The reference group for the education dummy variables is any individual with high school education (no diploma) or under.

#### 3. Control variables

Age gives each person's age at last birthday and is included in the regression model for natives to separate the impact of age and years of immigration on the level of income. Age proxies life experience and is a very rough proxy for work experience. Sex gives each person's gender and is included as a dummy variable in the empirical model.

Marital Status gives each person's current marital status, including whether the spouse was currently living in the same household. The variable is recoded into a dummy variable, Married, with the reference group of individuals that are not currently married.

| -   |  |   |   |   |  |  |
|---|--|---|---|---|--|--|
| NChild gives  | Table 1: Variables, Descriptions and Expected Signs  |   |   |   |  |  |
| the number of own children (of any age  | Variable   | Descriptio                                | n   | Expected Sign   |  |  |
| or marital status) re-  | <u>Dependent</u>   |   |   | -   |  |  |
| siding with each individual. It includes  | LnWage   | Natural Io                                | g of wage and salary income   |   |  |  |
| stepchildren and  | <u>Independent</u>   |   |   |   |  |  |
| adopted children  | Age  | A person'                                 | s age last birthday   | Positive  |  |  |
| as well as biological children.   | Years in US  | Number of stayed in                       | of years an imm immigrant has the U.S.  | Positive  |  |  |
| NChlt5 gives  | Education attainment   |   |   | Positive  |  |  |
| the number of own children age 4 and  | HighSchoolDiploma  | _   | chool (no diploma) or under<br>chool diploma or equivalent  |   |  |  |
| under residing with<br>each individual. It in-<br>cludes stepchildren                   | SomeCollege  | 0 = no co<br>1 = some<br>degree)          | lege<br>college (including associate's  |   |  |  |
| and adopted children as well as bio-  | Bachelors  |   | chelor's degree<br>elor's degree  |   |  |  |
| logical children.  All variables  | Masters  |   | aster's degree<br>r's degree  |   |  |  |
| and their detailed definitions are shown  | Professionals  |   | ofessional School degree<br>sional School degree  |   |  |  |
| in Table 1.   | Uhrswork   | Usual hou                                 | rs worked per week (last year)  | Positive  |  |  |
|   | <u>Sex</u>   |   |   |   |  |  |
| IV. EMPIRICAL MODEL   | Male   |   |   | Unknown   |  |  |
| The empirical model of this study   | Female   | 0 = Femal<br>1 = Male                     | e   |   |  |  |
| contains the follow-<br>ing parts:  | <u>Marital Status</u>  |   |   |   |  |  |
| 1. Descriptive statistics; 2. OLS regression  | Married  | 0 = Not m<br>1 = Marrie                   |   | Unknown   |  |  |
| analysis; 3. Simulation and comparison of   | NChild   | Number c                                  | of own children in household  | Unknown   |  |  |
| the revised models. First, descriptive statis-  | NChit5   | Number of household                       | of own children under age 5 in  | Unknown   |  |  |
| Ordinary Least Square to examine whether e has a significant impa for Chinese immigrant | nmigrants to natives. The s (OLS) regressions are reach income determinate on the level of incorts and natives. Regressiond the immigrants are | fun Lni $\beta_3$ Sine ior $\beta_3$ Sion | odel 2:"Immigrant" Model Wage= $\alpha_0+\beta_1$ YearsinUS+ $\beta_2$ HightomeCollege+ $\beta_4$ Bachelors+ $\beta_5$ Nals+ $\beta_7$ Doctors+ $\beta_8$ Uhrswork+ $\beta_9$ N NChild+ $\beta_{12}$ NChilt5  In the Immigrant Model, the second s | Masters+B <sub>6</sub> Profess<br>Male+B <sub>10</sub> Married+ |  |  |
|   |  | sin                                       | US captures the assimilation th   |   |  |  |

Model 1:"Native" Model

 $\label{eq:local_$ 

equivalent relationship for natives to substitute for the effect of assimilation, the variable Age replaces YearsinUS in the Native Model. To eliminate the effect of human capital, education variables and other demographic variables are controlled throughout the analysis.

Next, the paper examines whether wage convergence takes place between the two groups by simulating a "what-if" scenario of wage and salaries. When the basic models are revised based on the coefficients found in the regression analysis, variable means of the immigrant group are applied in the revised Native Model to calculate the hypothetical income level of natives. The resulting value suggests the income level of natives when they were given Chinese characteristics, which is an important benchmark to compare against actual Chinese income in the Immigrant model.

Finally, the paper looks for any wage convergence by comparing the income results of the immigrant group to the natives'. When the natives were given Chinese characteristics in the Native Model, the calculated resulting value serves as a benchmark against the income level of immigrants. The variable YearsinUS is increased gradually, and the correspondent result of the dependent variable LnWage shows the immigrant's income at various level of assimilation. Since human capital and other demographic variables are controlled, the results reflect purely the effect of assimilation.

# V. RESULTS

# A. Descriptive statistics

Descriptive results of the mean and standard deviation for natives and Chinese immigrants are shown in Table 2.

A comparison of the means for wage and salary income suggests that Chinese immigrants earn about 14% more than natives on average. The descriptive statistics also shows that Chinese immigrants are more likely to have advanced college degrees and are especially likely to hold masters degrees. The higher income level of immigrants can be largely attributed to the higher education attainment of graduate school degrees, which is consistent with the finding that education is one of the determining factors in income.

# B. Regression analysis

Table 3 shows regression results for the native model and the immigrant model.

Table 2: Descriptive Statistics Results of Natives and Chinese Immigrants

|   | Natives               | Immigrants               |
|---|-----------------------|--------------------------|
| N   | 54698                 | 604                      |
| Dependent Variable:                             |                       |                          |
| Wage and Salary<br>Income                       | 53326.13 (-47725.652) | 61146.55<br>(-52804.038) |
| LnWage  | 10.6015 (-0.81042)    | 10.7273 (-0.805)         |
| Independent Variables:                          |                       |                          |
| Age   | 43.25 (-10.703)       | 44.42 (-9.682)           |
| YearsinUS                                       | N/A N/A               | 18.1424 (-10.996)        |
| HighSchoolDiploma                               | 0.2763 (0.44719)      | 0.2202 (-0.4147)         |
| SomeCollege                                     | 0.3036 (-0.45981)     | 0.1026 (-0.3037)         |
| Bachelors                                       | 0.2448 (-0.42998)     | 0.2152 (-0.41132)        |
| Masters   | 0.0996 (-0.29952)     | 0.2119 (-0.40901)        |
| Professionals                                   | 0.018 (-0.13298)      | 0.0265 (-0.1607)         |
| Doctors   | 0.0171 (-0.12969)     | 0.149 (-0.35639)         |
| Usual hours worked per<br>week (last yr)        | 43.42 (-7.877)        | 42.78 (-7.878)           |
| Male  | 0.5488 (-0.49761)     | 0.5033 (-0.5004)         |
| Married   | 0.6478 (-0.47767)     | 0.7632 (-0.42544)        |
| Number of own children in household             | 1.05 (-1.164)         | 0.97 (-0.986)            |
| Number of own children under age 5 in household | 0.2 (-0.506)          | 0.16 (-0.429)            |

(Standard deviation in parentheses)

The coefficient for the variable YearsinUS is 0.010 and is significant at the 1 percent level. The result suggests that with an increase of one year in the U.S., an immigrant's salary increases by 1%. The coefficient for the variable Age is 0.008 and is also significant at the 1 percent level. This means that with an increase of one year of age, a native's salary increases by 0.8%. Thus, changes of the length of stay in the U.S. for the immigrant group have a stronger impact on the income level than changes of years of age for the native group, which gives rise to the possibility that wage gap between the two groups may be eliminated.

Meanwhile, both models have relatively high adjusted R-square values and many coefficients that are statistically significant. All coefficients in the Native Model are significant at the 1 percent level, while most of the coefficients in the Immigrant Model are significant. The regression results are consistent with the expectation that most of the coefficients have positive signs. The high level of significance supports the human capital theory that education plays a huge role in determining income regardless of being native or immigrant. It should be noted that coefficients

Table 3: Regression Results for Natives and Chinese Immigrants

for the education variables increase as the level of educational attainment increases in both models, which also supports the hypothesis that higher education attainment has a more significant influence on income growth.

# C. Comparisons of results between the Native Model and the Immigrant Model

Based on the results from regression analysis, the models are restated as follows:

Model 1 – the "Native" Model: LnWage=8.717+.008Age+.319 HighSchoolDiploma+.486Som eCollege+.486Bachelors+1.01 3Masters+1.338Professionals+1. 256Doctors+.015Uhrswork+.271 Male+.156Married+.033NChild-.028NChilt5

Model 2 – the "Immigrant" Model:

LnWage=9.380+.010YearsinUS+.101HighSchoolDiploma+.428SomeCollege+.783Bachelors+.971Masters+1.306Professionals+1.176Doctors+.006Uhrswork+.157Male+.182Married+.077NChild-.081NChilt5

Based on the restated models above, Table 4 shows a comparison of the estimated natural log of wage between natives and Chinese immi-

grants. As explained in the previous sections, when the basic models are revised based on the coefficients found in the regression analysis, variable means of the immigrant group are applied in the revised Native Model to calculate the hypothetical income level of natives. The results in Table 4 are wages estimated by multiplying the estimated coefficients of each regression times the Chinese immigrants' mean value of each of the independent variables.

From Table 4 on the next page, it can be seen that when given the same character-

| Table 3: Regression Results for Natives and Chinese Immigrants |              |             |         |              |             |         |
|--|--------------|-------------|---------|--------------|-------------|---------|
|  | Nat          | ive Model   |         | Immig        | ırants Mode |         |
|  | Coefficients | t-statistic | Sig.    | Coefficients | t-statistic | Sig.    |
| Constant   | 8.717        | 338.409     | .000*** | 9.38         | 51.517      | .000*** |
|  | (-0.026)     |             |         | (-0.182)     |             |         |
| Age  | 0.008        | 27.356      | .000*** | N/A          | N/A         | N/A     |
|  | 0            |             |         |              |             |         |
| YearsinUS  | N/A          | N/A         | N/A     | 0.01         | 3.997       | .000*** |
|  |              |             |         | (-0.003)     |             |         |
| HighSchoolDiploma  | 0.319        | 19.883      | .000*** | 0.101        | 0.887       | 0.375   |
|  | (-0.016)     |             |         | (-0.114)     |             |         |
| SomeCollege  | 0.486        | 30.401      | .000*** | 0.428        | 3.286       | .001*** |
|  | (-0.016)     |             |         | (-0.130)     |             |         |
| Bachelors  | 0.843        | 51.851      | .000*** | 0.783        | 6.846       | .000*** |
|  | (-0.016)     |             |         | (-0.114)     |             |         |
| Masters  | 1.013        | 56.569      | .000*** | 0.971        | 8.492       | .000*** |
|  | (-0.018)     |             |         | (-0.114)     |             |         |
| Professionals  | 1.338        | 49.275      | .000*** | 1.306        | 6.821       | .000*** |
|  | (-0.027)     |             |         | (-0.191)     |             |         |
| Doctors  | 1.256        | 45.449      | .000*** | 1.176        | 9.774       | .000*** |
|  | (-0.028)     |             |         | (-0.120)     |             |         |
| Usual hours worked   | 0.015        | 38.041      | .000*** | 0.006        | 1.622       | 0.105   |
| per week (last yr)   |              |             |         |              |             |         |
|  | 0            |             |         | (-0.003)     |             |         |
| Male   | 0.271        | 43.442      | .000*** | 0.157        | 2.917       | .004*** |
|  | (-0.006)     |             |         | (-0.054)     |             |         |
| Married  | 0.156        | 22.125      | .000*** | 0.182        | 2.601       | .010*** |
|  | (-0.007)     |             |         | (-0.070)     |             |         |
| Number of own children in house-                               | 0.033        | 11.131      | .000*** | 0.077        | 2.47        | .014**  |
| hold   |              |             |         |              |             |         |
|  | (-0.003)     |             |         | (-0.031)     |             |         |
| Number of own  | -0.028       | -3.975      | .000*** | -0.081       | -1.22       | 0.223   |
| children under age   |              |             |         |              |             |         |
| 5 in household   |              |             |         |              |             |         |
|  | (-0.007)     |             |         | (-0.067)     |             |         |
| Adjusted R-Square  | 0.242        |             |         | 0.349        |             |         |
| Observations   | 54698        |             |         | 604          |             |         |

Notes:

Standard errors are reported in parentheses.

istics, the natives earn about \$1300 more annually than Chinese immigrants. Since the variable means of Chinese immigrants are applied to each model, the result from the Native model shows the average income level of natives as if they had the same characteristics with Chinese immigrants. Therefore, the results show that when human capital variables are controlled for, the natives have an advantage in income over Chinese immigrants. Since human capital variables are controlled in the simulation, the differences in earnings are attributed mainly to the level of assimilation. The difference could be explained by

<sup>\*\*\*</sup>Significant at the 1 percent level.

<sup>\*\*</sup>Significant at the 5 percent level.

<sup>\*</sup>Significant at the 10 percent level.

language, status, discrimination in the labor market, etc.

various factors such as Table 4: Comparison of Natural Log of Wage between the Native Model and the Immigrant citizenship Model When Average Chinese Characteristics Are Applied

|   |                   |                |          | <u> </u>          |             |          |
|---|-------------------|----------------|----------|-------------------|-------------|----------|
| 1 | Native M          | odel "What-if" |          | Immigi            | rant Model  |          |
|   | Variable          | Coefficient    | Mean     | Variable          | Coefficient | Mean     |
| ١ | Constant          | 8.717          |          | Constant          | 9.38        |          |
|   | Age               | 800.0          | 44.42    | YearsinUS         | 0.01        | 18.1424  |
| 1 | HighSchoolDiploma | 0.319          | 0.2202   | HighSchoolDiploma | 0.101       | 0.2202   |
|   | SomeCollege       | 0.486          | 0.1026   | SomeCollege       | 0.428       | 0.1026   |
|   | Bachelors         | 0.843          | 0.2152   | Bachelors         | 0.783       | 0.2152   |
|   | Masters           | 1.013          | 0.2119   | Masters           | 0.971       | 0.2119   |
| - | Professionals     | 1.338          | 0.0265   | Professionals     | 1.306       | 0.0265   |
| : | Doctors           | 1.256          | 0.149    | Doctors           | 1.176       | 0.149    |
|   | Uhrswork          | 0.015          | 42.78    | Uhrswork          | 0.006       | 42.78    |
| , | Male              | 0.271          | 0.5033   | Male              | 0.157       | 0.5033   |
| • | Married           | 0.156          | 0.7632   | Married           | 0.182       | 0.7632   |
| 1 | NChild            | 0.033          | 0.97     | NChild            | 0.077       | 0.97     |
|   | NChlt5            | -0.028         | 0.16     | NChlt5            | -0.081      | 0.16     |
| , | LnWage            |                | 10.7561  | LnWage            |             | 10.7273  |
|   | Wage and Salary   |                | 46915.34 | Wage and Salary   |             | 45583.45 |

Because human capital factors are controlled in the simulation and only the effect of assimilation is considered, the result for natives in Table 4 serves as a benchmark for the Chinese immigrants when wages and salaries for the two groups are compared. Note that values of LnWage in Table 4 for both the natives and the immigrants are higher than the value of LnWage in Table 2

for natives. The results again suggest that natives are at an advantageous position compared to Chinese immigrants when the effect of human capital is controlled and income is determined mostly by the level of assimilation.

Table 5 compares the native benchmark to the value of the natural log of wage for Chinese immigrants when Years in U.S. is adjusted. The native benchmark is quoted from results in Table 4 when natives were given the same Chinese characteristics. The difference between the two columns shows the difference between the absolute value of wage and salaries between the immigrant group and the native group.

Based on the results of Table 5, when they first come to the U.S., immigrants have somewhat lower earnings than the natives with identical human capital endowments. As length of stay in the U.S increases, immigrant's earnings gradually increase as a result of assimilation. An important finding of the study is that, it takes 21 years for Chinese immigrants to reach the same level of income as natives when the immigrants eventually become assimilated. The decreasing earnings gap shows that wage convergence does apply to Chinese immigrants nowadays. This finding is consistent with Chiswick's conclusions in the ageearnings profile and suggests that longer duration in the U.S. helps immigrants to assimilate more to the host country.

Figure 2 on the next page plots the data in Table 5 to show the findings.

Immigrants have lower level of income compared to natives when they first migrate to the U.S.. As the number of years of stay increases, earnings between the two groups slowly converge and then gradually diverge after 21 years. Eventually the immigrant group becomes completely assimilated and enjoys a higher level of income compared to the natives. A possible explanation for the convergence is that immigrants lack certain skills and are not familiar with the new environment when they first move to the U.S. As time goes by, immigrants obtain necessary knowledge and skills that are useful in raising their productivity and performance in the labor market. As discussed in previous sections, length of stay for Chinese immigrants has a stronger effect on income growth than the change of age for natives. This might also explain the finding that income of Chinese immigrants eventually exceeds the natives' as the immigrants keep acquiring skills and learning knowledge in the host country.

#### VI. CONCLUSION

This research examines income determinants for 21st century Chinese immigrants and uses the model to test the impact of assimilation theory on the income level for the immigrants.

Table 5: Immigrant Model Adjusted for Years in U.S. and Compared to Native Benchmark

| YearsinUS | Immigrant | Native Benchmark | Difference |
|-----------|-----------|------------------|------------|
| 1         | 10.5556   | 10.7561          | (0.2005)   |
| 2         | 10.5656   | 10.7561          | (0.1905)   |
| 3         | 10.5756   | 10.7561          | (0.1805)   |
| 4         | 10.5856   | 10.7561          | (0.1705)   |
| 5         | 10.5956   | 10.7561          | (0.1605)   |
| 6         | 10.6057   | 10.7561          | (0.1504)   |
| 7         | 10.6157   | 10.7561          | (0.1404)   |
| 8         | 10.6257   | 10.7561          | (0.1304)   |
| 9         | 10.6357   | 10.7561          | (0.1204)   |
| 10        | 10.6457   | 10.7561          | (0.1104)   |
| 11        | 10.6558   | 10.7561          | (0.1003)   |
| 12        | 10.6658   | 10.7561          | (0.0903)   |
| 13        | 10.6758   | 10.7561          | (0.0803)   |
| 14        | 10.6858   | 10.7561          | (0.0703)   |
| 15        | 10.6959   | 10.7561          | (0.0602)   |
| 16        | 10.7059   | 10.7561          | (0.0502)   |
| 17        | 10.7159   | 10.7561          | (0.0402)   |
| 18        | 10.7259   | 10.7561          | (0.0302)   |
| 19        | 10.7359   | 10.7561          | (0.0202)   |
| 20        | 10.746    | 10.7561          | (0.0101)   |
| 21        | 10.756    | 10.7561          | (0.0001)   |
| 22        | 10.766    | 10.7561          | 0.0099     |
| 23        | 10.776    | 10.7561          | 0.0199     |
| 24        | 10.786    | 10.7561          | 0.0299     |
| 25        | 10.7961   | 10.7561          | 0.0400     |
| 26        | 10.8061   | 10.7561          | 0.0500     |
| 27        | 10.8161   | 10.7561          | 0.0600     |
| 28        | 10.8261   | 10.7561          | 0.0700     |
| 29        | 10.8362   | 10.7561          | 0.0801     |
| 30        | 10.8462   | 10.7561          | 0.0901     |
| 31        | 10.8562   | 10.7561          | 0.1001     |
| 32        | 10.8662   | 10.7561          | 0.1101     |
| 33        | 10.8762   | 10.7561          | 0.1201     |
| 34        | 10.8863   | 10.7561          | 0.1302     |
| 35        | 10.8963   | 10.7561          | 0.1402     |
| 36        | 10.9063   | 10.7561          | 0.1502     |
| 37        | 10.9163   | 10.7561          | 0.1602     |
| 38        | 10.9263   | 10.7561          | 0.1702     |
| 39        | 10.9364   | 10.7561          | 0.1803     |
| 40        | 10.9464   | 10.7561          | 0.1903     |

My hypothesis that human capital factors have a significant influence on a Chinese immigrant's income level is supported by my results. The most important finding of this study is that there is wage convergence between Chinese immigrants and natives in recent years and it takes more than 20 years for immigrants to become completely for immigrants to become completely assimilated as natives. The results are consistent with Chiswick's findings in the age-earnings profile, and additionally, the two groups' earnings diverge after 20 years of stay in the U.S. Possible explanations could be that immigrants keep acquiring knowledge and skills and are able to apply them effectively over time. They are also able to assimilate themselves in the host society and

translate their assimilation into equivalent level of income. Additionally, the results suggest that the current immigration policies are attracting high-skilled immigrants to the U.S. Policies that encourage immigrants to acquire advanced college education need to be carried out in the future; long-term residency would also help immigrants to become more and more assimilated and thus stimulating the overall economy.

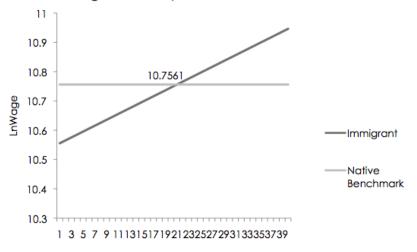
While the hypotheses are supported by the results in this research and the findings are consistent with the assimilation and human capital theories, this study is conducted by analyzing cross-section data and reflects a snapshot of the population's earnings at a fixed point of time. It is not clear whether tracing out the age-earnings profiles by following specific individuals over a period of time would have a significant impact on the results. Future research also needs to be conducted to explore other factors such as intergenerational relationships that could affect assimilation significantly.

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Fig. 2. LnWage vs. Number of Years in U.S. for Immigrants Compared to Natives Benchmark



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