

Systematic review for Greater Bay Area

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Introduction

The GBA policy inevitably tightens the relationship between GuangDong cities, HK and Macau. With the increasing frequency of cooperation between educational institutions and governments, it is conceivable that the GBA labour market composition would have significant adjustment. For example, cities are expected to develop their specialised labour division so as to improve the economic performance. The change of production, on one hand, surges the demand of the respective talent, on the other hand, it effectively changes the demographic composition

Since change in labour market will be catered by labour migration and educational reforms, it generates social changes in the policy targeted area. The expected migration further spawns various problems such as migrant assimilation, talent development and the cooperation hardship between different political regimes.

Our literature review objectives are identifying these problems and reporting their latest circumstances. In particular the last five years relevant literatures will be categorise into the following aspects:

1. Migration, return to education
2. Migrated children/student health and wellbeing
3. Schools/governments support and policies reform

Migration, Return to education

We look for the following topic in the literature.

- Role of Human capital
- the demographics of the labour market
- flow of migrant and their purpose and incentives
- the return of education

Human Capital

1. Wei (2008) examined empirically the role of human capital on China's economic growth.
 - They previously used provincial data from 1996 to 2004 which showed an insignificant effect of human capital and a sizeable and significant effect of fixed capital investment on economic development.
 - After correcting the endogeneity and using the 2SLS approach, they found the fixed capital investment lost its significance.
 - They suggested human capital has already played a significant role in China's economic development.
 - They predicted China's regional growth inequality may increase in the future because eastern areas traditionally have a large stock of college-educated workers and college-educated workforce is more likely to attract physical capital investment.
2. Khor et al. (2016) suggested large discrepancies between official statistics on educational attainment in China and data from in-the-field academic human capital studies.
 - they used the sixth population census data to show that China's human capital is shockingly poor compared to the average upper secondary attainment rate in OECD countries by demonstrating the statistics on upper secondary education reported by the Ministry of Education are overestimated.
 - They suggested effort to improve enrolments in upper secondary school, since they predicted there will be a high demand of skilled labour in the soon future of China.
 - They further warned that failing to do such improvement in education, not only massive unemployment will likely occur but also the newly emerging industries may also falter owing to the lack of skilled workers.
3. Ha, Yi, and Zhang (2016)
4. Li et al. (2017)
5. Fraumeni et al. (2019)
6. Li (2019)

Migration

1. Li and Bray (2007) drawn data from questionnaires and interview from HKU, HKUST, MU and MUST discuss the pull and push factors of cross-border higher education Chinese student in Hong Kong and Macau.
 - They suggest that mainland students in Macau valued economic factors such as economic income and competitive ability in the employment market more than their counterparts in Hong Kong where they emphasis on academic enhancement and social/cultural experience
 - The closer distance of HK/Macau and China are also their consideration as most of the research postgraduate have family and children.
2. Liu and Shen (2014) confirmed the skill labour flow are in general towards eastern-region provinces such as Guangdong, Beijing, Shanghai, Zhejiang, and Jiangsu.
 - They find that job related factors have dominating importance for the skilled labours' moving decision. However, other than wage, the climatic, social and culture amenities such as medical and cultural resources are also taken into their account of moving, less however.
 - They argue that although in their study the effect of amenities is less influential, it is expected to be more important in the future because the professional and managerial skilled worker become increasingly wealthy and emphasising work-life balance.
 - Besides, they found that the opportunity of university education for children is not valued for the skilled people destination choices unless they have the *hukou* of the destination, conceivably due to regional discrimination in the process of university admission.
 - They suggest that although China has implemented a series of hukou reform and has lowered the *hukou* threshold for wealthy and highly educated migrants in recent years, the system remained a powerful gatekeeper that divides local hukou holders and non-local hukou holders. For example, the opportunities of universities education for children are secondary consideration for skilled worker's decision unless they hold the destination *hokou* due to the regional discrimination in the universities admission process.
3. To et al. (2014) use questionnaire approach to discuss the choice of destination of the cross-border Chinese students within the Greater China Area.
 - The data was drawn by 326 questionnaire which only 3 of them are completed by non local HK higher education student.
 - They found programme reputation, recognition of university qualifications, availability of course information, safety and cost of living in the host cities

4. Shen (2015) estimates the effects of changing parameters in migration models and the changing demographic, social, and economic attributes in origin and destinations on migration flows.
 - Their decomposition result shows that 62.28% of this increase was due to changes in the value of explanatory variables, while 37.72% was due to changes in the value of model parameters.
5. Dustmann and Görlach (2016) proposes a general theoretical framework for modeling temporary migration decisions based on which they outline the various motives for temporariness.
 - It discusses the possible consequences of migration temporariness for non-migrants in both home and host countries
 - Home: remittances; brain drain and brain gain
 - Host: fiscal impact; marginal productivity of labour
6. Shen and Liu (2016) conducts a comparative analysis of skilled and less-skilled migration in China, using the 2005 one percent population sample survey data.
 - they found that migration asymmetry existed among less-skilled migration in the period 2000–2005.
 - The top regions, such as Guangdong, Shanghai of relative attractiveness for skilled migration were similar to those of less-skilled migration.
 - Their model predicts that individuals who were younger, did not have children and elderly household members, and were engaged in non-agricultural work were more likely to migrate away from their original province, regardless of their skill levels.
 - Less-skilled migrants tended to leave areas with a large population, a small non-agricultural sector, a high unemployment rate, and a small amount of foreign investment
 - Skilled migrants tended to leave areas with a small population, an excessive supply of university graduates, a small non-agricultural sector, and a low wage level.
7. Yuen, Cheung, and Wong (2017) focus on Mainland students who have completed teacher education programmes in Hong Kong and then served as teachers in Hong Kong schools (Mainland teachers). They discussed the attraction of them to stay and work in Hong Kong and the challenges they faced.
 - They found the most highly rated extrinsic motives to settle in Hong Kong were higher salaries, better career paths, and the international environment. A better quality of life and political freedom are also mentioned.
 - Intrinsic pull factors include professional autonomy, opportunities to teach using innovative methods, and being able to help students to

be independent thinkers.

8. Zhang and Ye (2018) using Hong Kong Panel Study of Social Dynamics (HKPSSD) and the China Family Panel Studies (CFPS) examines occupational attainment of Chinese immigrants in Hong Kong by comparing immigrants from Guangdong province with people who stayed in Guangdong and Hong Kong natives.
 - They found that Chinese immigrants have significantly lower occupational attainment, measured by International Socioeconomic Index (ISEI), than their counterparts in both the origin and the destination.
 - They also found that age of arrival to Hong Kong significantly matters to the occupational attainment.
 - Disadvantages exist for documented immigrants and those who arrived in Hong Kong at age 13 or older, whereas undocumented immigrants and those who arrived younger than 13 do not differ significantly from either Guangdong stayers or Hong Kong natives.
9. Fong and Guo (2018)
10. Tan (2020) used participant observations and semi-structured interviews to suggest that the temporary status of migrants and fast-paced work schedules of manufacturing factories limit migrants' options for after-work leisure activities both spatially and temporally.

Return to education

1. Whalley and Xing (2014) using education as a measure of skill, they draw on data from 1995, 2002 and 2007 China household income project (CHIP) to estimate skill premia at the province and/or prefecture (or city) levels.
 - They found although skill premia increased in nearly all provinces between 1995 and 2002, there was not such increase between 2002 and 2007 except in the coastal provinces.
 - Data from the 2007 survey indicate a strong positive relationship between export orientation and skill premia, with the coastal provinces exhibiting much higher skill premia than non-coastal provinces.
2. Gao and Smyth (2015) using three waves of the China Urban Labour Survey (CULS 2001, 2005, 2010) to examine the effect of the expansion in education on the returns to schooling in urban China for migrants and non-migrants.
 - They found the premium to education increased by about 2%–3% over a period in which there was a rapid increase in education levels
 - This result is consistent with the demand for skilled labour increasing at a time when China tries to move up the value-added chain and an observed increase in urban wage inequality

- In addition, the education premium is higher for non-migrants than migrants and higher for males than females.
3. Sakellariou and Fang (2016) using 2009 Rural Urban Migration in China (RUMiC) to estimate returns to schooling for rural-to-urban migrants and urban residents in China by instrumental variable estimation.
 - The estimated the return of education are around 6–9% for urban workers compared to 7–8% for migrant workers.
 - Returns for men (at 8–9%) are slightly higher than for women (at 6–7%).
 - Private returns to education in urban China in 2009 were not as high as other transition and developing countries, but substantial and have increased over time.
 4. Ma, Zhang, and others (2017) conducted an empirical study to estimate the private internal rate of return to years of schooling (IRR) in China during the period after the implementation of higher education expansion policy using data from the Chinese General Social Survey data conducted in 2006 and 2014
 - They found that overall, from 2005 to 2013, the IRR decreased from 8.6% to 7.8% for the total sample, from 8.3% to 7.4% for men, and from 9.0% to 8.2% for women.
 - IRR of the high-level education group is higher than the low, middle and high-level education groups in both 2005 and 2013
 - They suggest that the higher education expansion policy negatively affected the IRR at university level, but positively affected the IRR at graduate school level
 - while they suspect that the reduced IRR at university level is due to the problem of over-education for university graduates, they also consider higher education extension policy may promote technological innovation and raise the IRR of graduate school graduates and urge for further investigation.
 5. Wang, Smyth, and Cheng (2017) examine economic returns to proficiency in English in China using two waves of the China Labour-Force Dynamics Survey (CLDS)
 - They found positive earnings returns to proficiency in English.
 - The returns to proficiency in English are higher in the eastern region e.g. Guangdong and Shanghai, higher for women and evidence of education-language and skill-language complementarity.
 - They also observed urban locals English have more return than the migrants.
 6. Wang and Wu (2018) using CHIP2013 to determine the returns rate difference between those in the rural and urban areas.
 - They found the rate of returns to education for the general samples

was 13.9%. This, therefore, was higher than the rate (around 10%) in 2000-2010 in China.

- There was a significant difference between rural (3.7%) and urban (25.6%) areas.
- The gender equality testing showed that in rural areas, the rate of returns to education for females (9.1%) was much higher than males (2.5%).
- The results provided an overview of the current situation regarding the educational investment in China. It also pointed out the income and educational inequality between rural-urban and male-female.

7. Hu (2018) irrelevant

8. Asadullah and Xiao (2019) examine China economic returns to education using data from the Chinese General Social Survey 2010.

- Gains from schooling rise sharply with higher levels of education. The estimated returns are 12.2% in urban provinces and 10.7% in coastal provinces, higher than in rural and inland areas.
- Wage premium for workers with good English skills (speaking and listening) is 30%

Migrant Children/student health and wellbeing

The parental migration usually affect their next generation daily life drastically. The affected children well-being will be taken into account in our review

- their mental/physical health for the migrant student
 - their education performance
 - their behaviour
1. Liang and Chen (2010) use data from the 1995 China 1% Population Sample Survey to examine the school enrolment of migrant children who resided in cities of Guangdong province in 1995.
 - They found temporary migrant children are much less likely to be enrolled in school compared to local children.
 - Rural temporary migrant children from Guangdong also encounter a major disadvantage in terms of school enrolment
 - They suggest these disadvantages faced by temporary migrant children is likely to have detrimental and long-term consequences for migrant children and for urban society as a whole.
 2. Cheung (2013) compared rural-to-urban migrant adolescents and urban native adolescents to examine the relationships between victimization, local and trans-local ties, and mental well-being that might be unique to migrants.
 - They found victimization was associated with suboptimal psychological health in both the migrant and urban native samples.

- they found social ties directly boosted psychological health in both samples, with the effects of trans-local and local ties proving equally important among migrant adolescents
 - They suggested better understanding of victimization stress and how it is affected by the locality of social ties as a coping resource could help to protect the health of young migrants in urban China.
3. Hu, Lu, and Huang (2014) using data from the 2011 Survey on Social Integration of Migrant Children in Wuhan, China, this study examined psychological and behavioural problems of migrant and left-behind children.
 - Results showed that left-behind and migrant children had poorer psychological and behavioural outcomes than local children but difference disappeared after controlling for family and school characteristics.
 4. Xu and Xie (2015) applied propensity score matching methods to estimate the effects of migration in 2417 children 10–15 years old from a 2010 national survey
 - They found children’s migration has significant positive effects on their objective well-being.
 - Their results reveal there is little difference between the left-behind and non-migrant children across multiple life domains.
 - The Rosenbaum bounds tests indicate that the causal effects of child migration are sensitive to hidden bias for certain outcomes, but not for others.
 5. Lok, Cheung, and Hang Yue (2017) LUHK currently unavailable, see here
 6. Liu et al. (2017) conducted a survey in GuangZhou to discuss the subjective wellbeing of the migrants
 - They found migrants’ self-evaluated wellbeing being is, in general, lower than the local.
 7. Chen et al. (2019) using Hong Kong Panel Study of Social Dynamics (HKPSSD), they estimate the effects of neighbourhood discrimination towards immigrants from Mainland China on the mental health of Chinese residents in Hong Kong.
 - They found a higher level of immigrant discrimination is associated with a lower level of psychological distress for both post-1997 Mainland immigrants and other Chinese residents in Hong Kong
 - They suggested that immigrant discrimination can signify a prejudice that leads to social distance or avoidance and that the post-1997 Mainland immigrants do not have extensive contact with other local residents in Hong Kong.
 8. Xu et al. (2018) conducted survey for 476 migrant children on educational processes and family influences in Tianjin China.

- These children reported a fair-to-good subjective happiness level
 - They found subjective happiness will rise alongside nine improvements: (1) public school enrolment, (2) non-discriminatory admission to education, (3) targeted assistance for higher grade students, (4) integrated local-migrant classes, (5) teacher-student interactions, (6) extracurricular activities, (7) academic performance, (8) parent-child communication, and (9) friends in the city.
9. Lu et al. (2019) conducts a cross-sectional survey using the Chinese version of the Strengths and Difficulties Questionnaire (SDQ) in urban and migrant schools in the capital, Hangzhou, and in schools in two rural counties of Zhejiang Province.
- They found migrant children were the most vulnerable to psychological problems.
 - They suggested improving conditions in urban areas for these children, and ensuring access to urban public schools.
10. Meng and Yamauchi (2017) left behind children (irrelevant)
11. Zhao et al. (2017) left behind child (irrelevant)

School support and reform

Given the children well-being is inevitably influenced by the parents' decision, school and governmental supports and additional managements are required to cater the rising need, we will look for the

- their policies and cooperation have been done and their effectiveness
- their policies and cooperation are expected to meet the future challenge

Other

The following literatures discuss the miscellaneous of GBA, such as background, plan and cooperation

1. Hook and Neves (2002)
2. Liu (2019)
3. Kong, Wang, and Zhang (2018)
4. Weng, Kou, and Shao (2020)
5. Yu et al. (2014)

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