Exploratory analysis of the position of Chinese cities as international tourism hubs: product destination versus business environment internationalization

Análisis exploratorio de la posición de las ciudades chinas como centros turísticos internacionales: internacionalización del producto destino versus del entorno empresarial

Xiang Feng
rachel@shnu.edu.cn
Department of Urban Sciences and Regional Planning
Shanghai Normal University (China)

Ben Derudder
ben.derudder@kuleuven.be
Public Governance
KU Leuven (Brussels)

Xiaochuan Zhu
zhuxiaochuan@shnu.edu.cn
Department of Urban Sciences and Regional Planning
Shanghai Normal University (China)
Abstract

This paper measures the level of tourism internationalization of 50 major cities in Mainland China by analyzing their connectivity as international tourism hubs. A typology of cities is presented based on a comparison of their ‘product destination internationalization’ and ‘business environment internationalization’ in the tourism sector. Results are interpreted in the context of three dimensions of the internationalization of the Chinese economy: the imbalanced development of the space-economy; the uneven impact of policy plans and mechanisms; and the imprint of spatio-political hierarchies. We discuss how this study can be complemented with research using other spatial imageries, and used as the starting point for further comparative studies on tourism internationalization in other geographical contexts.

Key words: globalization; China; tourism hubs; ranking.

Resumen

Este documento mide el nivel de internacionalización del turismo de 50 ciudades importantes en China continental mediante el análisis de su conectividad como centros turísticos internacionales. Se presenta una tipología de ciudades basada en una comparación de su “internacionalización del destino del producto” y la “internacionalización del entorno empresarial” en el sector turístico. Los resultados se interpretan en el contexto de tres dimensiones de la internacionalización de la economía china: el desarrollo desequilibrado de la economía espacial; el impacto desigual de los planes y mecanismos de políticas; y la impronta de jerarquías espacio-políticas. Discutimos cómo este estudio puede complementarse con una investigación que utilice otras imágenes espaciales y utilizarse como punto de partida para futuros estudios comparativos sobre la internacionalización del turismo en otros contextos geográficos.

Palabras clave: globalización; China; centros turísticos; ranking.
1 Introduction

It is now widely accepted that the Chinese tourism industry has evolved into a critical economic sector that is fast expanding and has further significant growth potential (Zhou, 2019). While China’s economy almost tripled from US$5.2 trillion in 2009 to US$15.2 trillion in 2019, the overall revenue related with the tourism sector practically grew tenfold during the same period, from US$0.19 trillion in 2009 to US$1.02 trillion in 2019 (Ministry of Cultural and Tourism of the People’s Republic of China, 2020). Even though COVID19 has clearly shaken up things in the short run, according to the World Travel & Tourism Council (2018) China is predicted to overtake the USA by the end of the decade in terms of overall tourism revenue, thus becoming the world’s largest travel and tourism economy.

Tourism in China has been developing in a specific context due to the country’s unique political, economic and cultural background (for a global perspective, see Díez-Pisonero et al., 2018). For example, the tourism sector has for a large part been shaped by the gradual ‘opening up’ of the Chinese economy from 1978 onwards (leading to internationalization), which has in turn gone hand in hand with a stepwise transition towards market-based approaches (leading to marketization). The gradual nature of these changes not only implies that, in relative terms, the Chinese tourism industry is perhaps not as well developed as in many other countries, but also that—at least until recently— it has been less internationalized. Nonetheless, tourism in China is increasingly establishing itself as a major economic sector with an increasingly international outlook. In this context, it is important to note that it has become one of the ways to ‘earn’ foreign currency (Feng, 2011), further mimicking China’s overall economic development trajectory in terms of international orientation and export focus. As a consequence, we are witnessing a more focused development and international marketing of cultural and historical attractions alongside brand-new tourism facilities and infrastructures that collectively fuel the growth of international tourism to China.

It is well documented that China’s economic growth in general and the international dimensions of that growth in particular have a crucial urban component (Ren, 2013; Gu et al., 2017). This centrality of cities is, albeit to an uneven degree, also observable in the tourism industry. Because many key tourist facilities and infrastructures as well as major historical and new attractions tend to be located in or near cities, China’s major cities have come to play a key role in the internationalization of its tourism industry (Feng, 2011). This is not to say that the development of rural tourism is less important or marked in China. For example, according to statistics from the
China National Tourism Administration, 3.2 billion tourists choose rural destinations during China’s three ‘golden-week’ peak travel seasons in May, October, and the Spring Festival or China’s Lunar New Year in 2019 (Ministry of Cultural and Tourism of the People’s Republic of China, 2020). Nonetheless, major cities play a crucial role in the development of the international tourism market in particular because they often act as the gateways—in a geographical sense—for the industry at large. Zhang et al. (2011) and Deng et al. (2017), for example, point to the pronounced centrality of cities in the Chinese international tourism industry because of the accessibility offered by major airports, a range of implicit facilitating factors such as the level of English in tourism services, and the gateway function offered by cities. In this paper, we therefore specifically focus on the geographies of the internationalization of Chinese tourism at the urban scale.

Gorcheva (2011) argues that tourism internationalization not only pertains to the overall attractiveness of that location, but is also defined by the broader business environment in which the tourism industry is embedded. Nonetheless, much conceptual and empirical research on international tourism tends to focus on the former, for example on the more visible and direct dimension of cities as destinations for international inbound tourists. This research agenda thus focuses on the resources and products that give a destination its attractiveness, with the analytical focus ranging from the geographies of international tourists/tourism income to understanding international market segmentation and embeddedness (see Demir & Gozgor, 2018; Valadkhani & Omahony, 2018). Although such an approach goes a long way to reveal how locations act as international tourist hubs, it also implies that we know less about how locations are integrated in international tourism business networks.

Following Gorcheva’s (2011) distinction, in this paper we analyze how Chinese cities are unevenly integrated in the networks of international tourism businesses (‘business environment internationalization’, BEI) and compare this to the volume of international inbound tourism (‘product destination internationalization’, PDI). The background against which we interpret patterns, similarities, and differences consists of three complementary dimensions: we hypothesize that, first, cities’ roles are shaped by the overarching geographies of the internationalization of the Chinese economy; second, that the ensuing parallels between BEI and PDI are deepened because key firms active in international tourism co-create the position of these cities as international destinations; and third, that there are nonetheless differences between BEI and PDI which emanate from the particularities of tourism markets and policies. Rather than turning these into formally testable hypotheses, which would be difficult given the relatively
limited number of observations, we will use these dimensions as a broad interpretative framework to organize the discussion of results and sense-check findings.

The remainder of this paper is organized as follows. In the next section, we review the relevant scientific literatures, zooming in on the key aspects informing our analytical framework and discussion of the results: the literature on international tourism development, and the literature on the internationalization of the Chinese economy. We then specify our analytical framework, which compares the presence of key firms that can be related to international tourism across 50 major Chinese cities to their importance as destinations for international tourism. The subsequent section presents an overview of the main results and discusses the implications in substantive terms. The paper is concluded with a summary of our main findings and a discussion of the broader potential of our methodology, as well as an overview of possible avenues for further research.

2 Literature review

2.1 Tourism internationalization

In its most narrow sense, the term ‘economic internationalization’ can simply be used to describe processes of increasing border-crossing interactions (Welch & Luostarinen, 1988). As Melin (1992) already pointed out almost 30 years ago, internationalization has become a major dimension of the ongoing strategy of many businesses. Williams and Shaw (2011) more broadly define economic internationalization as the process of becoming aware of the importance of international transactions, as well as processes of investing in and undertaking business transactions in other countries. Regardless of the more-or-less subtle differences between these and other definitions, they all acknowledge that in the economic domain internationalization is reflected in at least two complementary and partially interacting dimensions, i.e. firms’ products being consumed by customers in other countries as well as firms’ location strategies. Gorceva (2011) points out that both dimensions are also relevant for, and visible in the tourism industry: tourism internationalization entails both (1) the production of services to be consumed by international tourists as well as (2) actors seeking out and creating business environments for organizing and disseminating these services. In this first part of the literature review, we argue that although both dimensions—captured by PDI and BEI— are indeed two pertinent themes for tourism research, their parallels and differences have not been specifically broached in the literature. We briefly discuss each strand of the tourism internationalization literature in turn.
In the literature on PDI, indicators used to measure the degree of international tourism often revolve around the number of international tourism arrivals, which can be complemented and/or extended with a range of associated indices such as the length of stay and the level of spending (e.g. Valadkhani & Omahony, 2018). This approach has also been adopted in the literature studying the development of international tourism in China, which has become an important research topic in recent years (Su et al., 2017; Wang & Bramwell, 2012). Many of these studies use such indices as their starting point to reveal the international competitiveness of specific destinations (Ma & Hassink, 2013; Zhang et al., 2011), stakeholder partnerships (Cui & Ryan, 2011; Liang & Hui, 2016) or the impact of fast-evolving tourism developments (Liu et al., 2017; Peng & Xiao, 2018).

BEI, in turn, concerns firms’ presences in ‘foreign’ destinations. Scheyvens and Russell (2011), Biggs et al. (2011) and Erkus (2016) classify international tourism firms into two groups, i.e. those that are directly and those that are indirectly tourism-related (see Table 1). Direct tourism-related firms are, for example, hotels, travel agencies, theme parks and tourist NGOs, whose daily business primarily consists of dealing with tourists. Indirect tourism-related firms, in turn, refer to business such as restaurants, grocery stores, hospitals and insurance companies where tourist services are only a part—sometimes even a small one—of companies’ daily business, but may be required in the context of international tourism. Of course, the distinction between direct and indirect tourism firms is rarely clear-cut, as each of these firms is only to a (varying) degree tourism-oriented: hotels also cater to business travelers, while the tourism-related turnover of grocery stores may be very small or even negligible. Furthermore, as Lassen (2006) points out, ‘tourism’ and ‘business’ are by no means mutually exclusive travel categories on a given trip, which makes the straightforward labelling of ‘tourism’ as a self-evident ‘product category’ difficult at best. In addition, tourism services offered by these firms have to an uneven degree an international dimension: major hotels cater to domestic and international guests alike, and there may be complex relations (e.g. franchising) that may render the identification of international versus non-international difficult. While we acknowledge these caveats, previous research by Scheyvens and Russell (2011), Biggs et al. (2011) and Erkus (2016) has shown that in broad terms (1) the distinction between direct and indirect holds and (2) it is possible to differentiate international from national/local players, and we therefore adopt it to differentiate between different aspects of BEI.
Table 1. Typology of international tourism firms

| Direct tourism-related                      | Indirect tourism-related                  |
|--------------------------------------------|------------------------------------------|
| International hotels                       | International supermarkets               |
| International travel agencies             | International restaurants               |
| International theme parks                  | International hospitals                  |
| International tourism NGOs                 | International insurance companies        |

Source: authors, based on Scheyvens and Russell (2011), Biggs et al. (2011) and Erkus (2016)

Even though BEI and PDI are posited as different processes, a number of parallels can be assumed. This is partly because of similar processes shaping overall internationalization (see the next section), but also because the presence of key firms active in international tourism co-create the position of cities as international destinations. Williams and Shaw (2011), for example, point out that international tourism is in part characterized by consumers who often lack local knowledge and therefore face uncertainty. For some tourists this is of course part of the experience, but many other tourists value this uncertainty negatively, which creates market opportunities for international companies with known and trusted brands that are thought to deliver tourism services with less (perceived) risks. The assumed parallels between ‘business environment internationalization’ and ‘product destination internationalization’ may be especially germane in China, as international tourists may assume, and key actors in international tourism may therefore need to pay attention to, the assumption that tourism facilities and infrastructures may not reach the standards they are used to. This is corroborated by the research on the airline industry, which show that national loyalties of travellers and international visibility of carriers rank next to price in terms of influencing travellers’ selection (e.g. Bruning, 1997). Both tour operators and individual tourists may therefore be inclined to choose cities with a shown abundance of international brands with the inherent promise of a certain standard in the quality of service so that BEI and PDI create a virtuous cycle of tourism internationalization. At the same time, however, specific tourism policies and city development strategies of local governments may result in idiosyncratic patterns for specific cities.

2.2 Interpreting the internationalization of the Chinese tourism economy

Irrespective of the PDI/BEI differentiation, when interpreting the development and internationalization of the Chinese economy and tourism industry, researchers explicitly or implicitly draw on geographical imageries and frames that shape their perspective. Obvious
examples include the alleged urban-rural division (Zhu et al., 2020) or the coastal provinces-inland provinces division (Wei et al., 2017) which in China, although clearly present, also shape how geographical patterns are framed and understood. On the one hand, these geographical frames risk imposing a pre-defined analytical lens that not only clarifies but also obfuscates. For example, a focus on the internationalization of the tourism industry in and through cities acknowledges China’s remarkable urban trajectory (Miller, 2012) and Chinese cities’ pronounced international gateway function (Taylor et al., 2014), but it also obscures the dynamics of rural tourism in China (Su, 2011) and the interconnected nature of the urban and the rural in China’s tourism industry (Li et al., 2019). On the other hand, however, using such geographical frames can help focusing, organizing and structuring the discussion of patterns and provide a coherent interpretative framework. In this paper, we focus on the position of cities as this allows more coherently framing results in the context of three broader dimensions underlying the geographies of the internationalization of the Chinese economy: the imbalanced development of the space-economy, the uneven impact of policy plans and mechanisms, and the imprint of spatio-political hierarchies. In the remainder of this section, we discuss each of these in turn, but we emphasize the value of and need for research that uses other spatial imageries—e.g. rural tourism— as well.

First, Chinese cities’ uneven tourism internationalization need to be understood against the background of broader spatio-economic inequalities across China. On a very general level, the geography of foreign direct investment and gross domestic product in China has two major dimensions: first, a gradient from relatively more developed coastal regions areas to relatively less developed regions in western China (Li & Wei, 2010); and second, the dominance of a set of densely settled polycentric urban regions, with above all Beijing–Tianjin–Tangshan, the Yangtze River Delta, and the Pearl River Delta standing out (Liu et al., 2016). According to Huang et al. (2016), in 2015 these three urban agglomerations covered 18% of the Chinese population on a mere 2.8% of the landmass, but represented 36% of national GDP. Paralleling the deeper integration of these parts of China in the global economy, which has roots in the uneven ‘opening up’ of the Chinese economy, major tourism and hotel groups have been unevenly setting up branches across Chinese cities (Wen & Sinha, 2009; Wen & Tisdell, 1997). For example, in 1982 122 cities located in the eastern coastal areas of China were permitted to open up to foreign tourists (Goh et al., 2014), and these and related forms of head start are likely to produce path dependencies that are visible to date. In addition to these more straightforward parallels between cities’ economic internationalization-at-large and their involvement in international tourism, one can hypothesize a range of other processes reinforcing this pattern. For
example, Polyzos and Minetos (2011) find that local resources, tourist demand, infrastructures, and expertise alongside the broader economic environment are the main attributes influencing international tourism firms’ location decisions. This implies that cities with larger average purchase power and/or a well-developed domestic tourism market are relatively more attractive to international firms as they can tap into a relatively large pre-existing market.

Second, the development of China’s economy also has an obvious spatio-political dimension. China has a unique five-tier hierarchical urban system: in descending order of administrative power, these are provincial-level cities (including Beijing, Shanghai, Tianjin, and Chongqing), sub-provincial level cities (e.g. Nanjing and Hangzhou), prefecture-level cities (e.g. Suzhou), county-level cities, and counties (Wang et al., 2015). When developing their industrial basis, provincial capitals and other key cities usually enjoy special policy treatments in terms of investments (Pine et al., 2013). Meanwhile, these cities usually find it easier to develop international engagements, ranging from foreign direct investment to international trade, because resources such as transportation, manpower, and financial capital are (being) concentrated there (Yu et al., 2003). As a result, provincial-level cities and sub-provincial level cities are often more internationalized.

In addition, in the “National Urban System Planning (2005–2020)”, the Ministry of Housing and Urban–Rural Development of China listed Beijing, Tianjin, Shanghai, and Guangzhou as four globally oriented megacities while Chongqing, Shenyang, Nanjing, Wuhan, Chengdu, and Xi’an are designated as regional centers. Again, in the Chinese context such decisions have major ramifications in terms of resource allocation to facilitate the internationalization of the economy (Huang et al., 2016). In other words, the imprint of the spatio-political hierarchies in the urban system is often visible in uneven patterns of internationalization, especially outside the three major urban agglomerations and/or away from coastal areas as identified above, and this will likely be visible in the tourism sector as well.

And third and finally, the uneven internationalization across urban economies is driven by different policy plans and mechanisms. In terms of the tourism sector, for example, different cities set themselves different objectives as they develop their tourism sector, such as attracting more international tourists (Tang et al., 2015), having a more balanced spatial distribution within the tourism industry (Zhang et al., 2011), protecting history and culture (Lim & Pan, 2005), increasing the overall international dimension of their economy (Deng et al., 2017), or working towards an enhanced international business environment (Kucukusta & Guillet, 2015; Tukamushaba et al., 2013). The implementation of these development goals often triggers differences across cities in attracting international tourists and international tourism companies. A
city such as Hangzhou, for example, is well known to take a very proactive approach when developing tourism plans and mechanisms (Feng, 2019).

3 Data and methodological framework

3.1 Selection of cities and PDI data

The first step in the construction of our dataset is the choice of cities. The selection of cities drawn from the 2017 yearly report on ‘China’s National Tourism Statistics’ in 2017, which includes information on the 50 main international tourism gateways in Mainland China (see Table 2 and Figure 1). The selection itself reflects a PDI perspective, as it is based on a combination of (1) the number of international arrivals and (2) the length of stay of international visitors in a certain year. Multiplying both values produces the PDI value used in the remainder of this paper. Results are shown in Table 2. Shenzhen, Guangzhou, Shanghai and Beijing have the largest PDI values, and the Gini coefficient of 0.63 suggests that PDI is skewed towards a relatively small number of cities.
Table 2. PDI and BEI of the 50 Chinese cities

| PDI ranking | City     | Abbreviation | International arrivals (IA) (in thousands and rounded) | Length of stay (LS), in days | Product Destination Internationalization (in thousands and rounded) | Business Environment Internationalization |
|-------------|----------|--------------|--------------------------------------------------------|------------------------------|---------------------------------------------------------------------|------------------------------------------|
| 1           | Shenzhen | SHZ          | 11,700                                                 | 2.35                         | 27,500                                                              | 951                                      |
| 2           | Guangzhou| GZ           | 8,600                                                  | 3.11                         | 26,800                                                              | 1516                                     |
| 3           | Shanghai | SH           | 6,900                                                  | 3.21                         | 22,200                                                              | 4449                                     |
| 4           | Beijing  | BJ           | 4,200                                                  | 4.30                         | 17,900                                                              | 2045                                     |
| 5           | Xiamen   | XM           | 2,300                                                  | 4.98                         | 11,500                                                              | 214                                      |
| 6           | Chongqing| CQ           | 1,800                                                  | 5.30                         | 9,600                                                               | 622                                      |
| 7           | Suzhou   | SZ           | 1,600                                                  | 4.19                         | 6,800                                                               | 1042                                     |
| 8           | Quanzhou | QZ           | 1,300                                                  | 5.06                         | 6,300                                                               | 124                                      |
| 9           | Wuhan    | WH           | 2,200                                                  | 2.80                         | 6,300                                                               | 672                                      |
| 10          | Fuzhou   | FZ           | 1,100                                                  | 5.85                         | 6,200                                                               | 213                                      |
| 11          | Zhuhai   | ZH           | 3,200                                                  | 1.79                         | 5,700                                                               | 115                                      |
| 12          | Chengdu  | CD           | 2,700                                                  | 1.93                         | 5,200                                                               | 637                                      |
| 13          | Guilin   | GL           | 2,300                                                  | 2.24                         | 5,200                                                               | 47                                       |
| 14          | Hangzhou | HZ           | 1,600                                                  | 2.60                         | 4,100                                                               | 856                                      |
| 15          | Xi’an    | XA           | 1,300                                                  | 2.92                         | 3,900                                                               | 321                                      |
| 16          | Qingdao  | QD           | 900                                                    | 3.65                         | 3,400                                                               | 333                                      |
| 17          | Huangshan| HS           | 1,500                                                  | 1.86                         | 2,800                                                               | 12                                       |
| 18          | Tianjin* | TJ           | 800                                                    | 2.95*                        | 2,400                                                               | 719                                      |
| 19          | Dalian   | DL           | 1,000                                                  | 2.10                         | 2,200                                                               | 375                                      |
| 20          | Nanjing  | NJ           | 600                                                    | 3.51                         | 2,200                                                               | 480                                      |
| 21          | Shenyang | SHY          | 700                                                    | 3.19                         | 2,200                                                               | 285                                      |
| 22          | Zhangzhou| ZAZ          | 600                                                    | 3.89                         | 2,200                                                               | 29                                       |
| 23          | Kunming  | KM           | 1,200                                                  | 1.67                         | 2,100                                                               | 156                                      |
| 24          | Ningbo   | NB           | 800                                                    | 2.18                         | 1,800                                                               | 348                                      |
| 25          | Yantai   | YT           | 400                                                    | 4.14                         | 1,700                                                               | 104                                      |
| 26          | Zhongshan| ZS           | 600                                                    | 2.66                         | 1,700                                                               | 128                                      |
| 27          | Changchun| CC           | 500                                                    | 3.40                         | 1,500                                                               | 144                                      |
| 28          | Yanbian  | YB           | 700                                                    | 2.08                         | 1,500                                                               | 18                                       |
| 29          | Wuxi     | WX           | 400                                                    | 3.09                         | 1,400                                                               | 387                                      |
| 30          | Sanya    | SY           | 400                                                    | 2.61                         | 1,200                                                               | 98                                       |
| 31          | Wenzhou  | WZ           | 500                                                    | 2.34                         | 1,200                                                               | 125                                      |
| 32          | Nanning  | NN           | 600                                                    | 1.99                         | 1,100                                                               | 112                                      |
| 33          | Qinhuaingdao| QHD     | 100                                                    | 7.23                         | 1,100                                                               | 37                                       |
| 34          | Urumqi   | URU          | 300                                                    | 3.45                         | 1,100                                                               | 33                                       |
Table 2. Continuation

| PDI ranking | City      | Abbreviation | International arrivals (IA) (in thousands and rounded) | Length of stay (LS), in days | Product Destination Internationalization (in thousands and rounded) | Business Environment Internationalization |
|-------------|-----------|--------------|--------------------------------------------------------|-----------------------------|---------------------------------------------------------------------|----------------------------------------|
| 35          | Weihai    | WEH          | 300                                                    | 3.01                        | 1,000                                                               | 37                                     |
| 36          | Zhengzhou | ZZ           | 400                                                    | 2.48                        | 1,000                                                               | 188                                    |
| 37          | Changsha  | CS           | 600                                                    | 1.53                        | 900                                                                 | 232                                    |
| 38          | Hefei     | HF           | 300                                                    | 2.94                        | 800                                                                 | 180                                    |
| 39          | Jinan     | JN           | 300                                                    | 3.16                        | 800                                                                 | 175                                    |
| 40          | Chengde   | CDE          | 200                                                    | 2.40                        | 600                                                                 | 16                                     |
| 41          | Jiujiang  | JJ           | 300                                                    | 2.12                        | 600                                                                 | 32                                     |
| 42          | Lhasa     | LS           | 200                                                    | 3.00                        | 600                                                                 | 10                                     |
| 43          | Luoyang   | LY           | 300                                                    | 1.80                        | 600                                                                 | 38                                     |
| 44          | Harbin    | HRB          | 200                                                    | 2.23                        | 500                                                                 | 198                                    |
| 45          | Nanchang  | NC           | 200                                                    | 2.03                        | 500                                                                 | 120                                    |
| 46          | Nantong   | NT           | 200                                                    | 2.82                        | 500                                                                 | 151                                    |
| 47          | Shantou   | ST           | 200                                                    | 2.04                        | 500                                                                 | 68                                     |
| 48          | Guiyang   | GY           | 200                                                    | 2.00                        | 400                                                                 | 78                                     |
| 49          | Taiyuan   | TY           | 200                                                    | 2.67                        | 400                                                                 | 106                                    |
| 50          | Zhanjiang | Zj           | 400                                                    | 0.81                        | 300                                                                 | 49                                     |

Source: authors’ calculations based on China’s National Tourism Statistics (2017), http://www.forbes.com/, http://fortune.com/, www.marketingandtechnology.com/, www.qualitytourism.cn/ and http://www.teaconnect.org/
Figure 1. Location of 50 most important Chinese cities in terms of PDI and BEI, based on data in Table 1

Source: authors’ calculations based on China’s National Tourism Statistics (2017), http://www.forbes.com/, http://fortune.com/, www.marketingandtechnology.com/, www.qualitytourism.cn/ and http://www.teaconnect.org/
3.2 Measuring BEI

Operationalizing BEI is of course a somewhat more complex exercise compared to operationalizing PDI, as there is no readily available data. We analyzed how cities are integrated in the networks of the largest chains, groups and firms in international tourism. Following Table 1, we include direct and indirect tourism-related firms into our analysis. To measure the integration of a city in the corporate networks of international tourism chains, we adopt a simplified version of the company location measurement methodology developed by Derudder and Taylor (2018, 2020). This methodology starts from an appraisal of the (importance of the) offices of international tourism firms. Although we recognize that in the tourism industry local small and medium enterprises (SMEs) are a major provider of accommodation, food and beverages, transportation, entertainment, etc. (Aydin & Emeksiz, 2018), international chains and their brands exert a major and very visible influence in the internationalization of a city’s tourism industry. Our measure of a city’s BEI is the total number of branches or offices of international tourist companies. Linking firms with a city was done based on the information available on the websites of each of the firms identified below. Typically, websites of tourism firms provide an option that allows selecting their locations, giving information on the addresses of offices and often with a world map of their distribution to showcase their ‘global’ presence. We used the websites to ‘scavenge’ all possible relevant information, firm by firm. When tourism firms exist as groups, they were treated as a single network in our research and allocated to their core sector.

International tourist firms were chosen based on their ranking in lists of the largest international tourism firms for each of the different categories. These rankings were the most recently available at the planning of the research in 2018, and tended to be based on 2017 data. For the international restaurant, grocery store and insurance sectors, we included the top firms by cross-checking two indices, i.e. the Forbes 2000 (http://www.forbes.com/) and the Fortune 500 rankings (http://fortune.com/). A total of 13 restaurant, 10 retail and 42 insurance groups were identified as having a presence in (some of) the 50 Chinese cities. For the international hotel sector, 85 global hotel companies from the ‘Hotel 325’ list (www.marketingandtechnology.com/) were identified as having at least one presence in China. For international travel agencies, we reviewed the list of international travel agencies that are allowed to run business in China by the Chinese government (www.qualitytourism.cn/). For international theme parks, we reviewed the top 10 theme park groups worldwide from the global attractions attendance report of Themed Entertainment Association (TEA) (http://www.teaconnect.org/) and identified 2 theme parks operating in China. For international NGOs, we identified 7 organizations affiliated with the
UNWTO and WTTC and having offices in China. By crawling the data on international hospitals in China provided by the Allianz international medical insurance group, we identified 10 international hospital groups that have branches, joint ventures or cooperation agreements in China. Taken together, this resulted in a list of 205 international firms (see appendix 1) with a direct or an indirect tourism component that have set up some sort of presence across 50 major Chinese cities. As mentioned, in some of the cases the link of the firms that are indirectly related firms with tourism may seem opaque, but we emphasize that the selection of those firms is skewed towards international tourism. For example, the hospitals in our dataset have a tourism component in that these are recommended by international insurance companies providing travel insurance.

The BEI ranking is shown in Table 2. It is led by Shanghai, Beijing and Shanghai, and also exhibits an uneven distribution with a Gini coefficient of 0.63: a small number of cities exhibiting more internationalization than others, with broadly the same set of cities re-emerge atop the ranking.

### 3.3 Data transformation

To be able to better compare both distributions and the position of different cities therein, we transformed the data in two consecutive steps. First, given that the distributions in Tables 1 and 2 are negatively skewed, we use the natural logarithms of the input data. Second, we apply a min-max normalization to these logarithms so that we create distributions ranging from 0 (lowest value) to 1 (highest value). These data, summarized in Table 3, are subsequently used as our main input in the next section to discuss parallels and differences between both dimensions of tourism internationalization for Chinese cities. These further analyses include: (1) correlation analysis to measure the degree of relevance between PDI and BEI; and (2) a quadrant analysis to construct a typology among the 50 Chinese cities.

### 4 Results

Table 3 shows the transformed PDI and BEI values for the 50 Chinese cities. Two initial observations can be drawn from the overall pattern. First, correlation analysis confirms the broad-based link between PDI and BEI ($r = 0.65$ with $^*p < 0.01$). For example, while Shanghai, Beijing and Guangzhou exhibit a high level of PDI and BEI, Lhasa, Jiujiang and Chengde lack this international dimension. Nonetheless, and second, given that the correlation is far from perfect there are also clear differences between both rankings. Straightforward examples include
Shenzhen ranking less high in the BEI ranking and cities in the Yangtze River Delta (e.g. Nanjing, Hangzhou, Suzhou) having a somewhat higher BEI ranking.

Table 3. Normalized PDI and BEI values of the 50 Chinese cities. PDI and BEI values range from 0 to 1, with 1 indicating the most internationalization and 0 the least internationalization among the 50 cities.

| Rank | City    | Abbreviation | Normalized PDI degree | Rank | City    | Abbreviation | Normalized BEI degree |
|------|---------|--------------|-----------------------|------|---------|--------------|-----------------------|
| 1    | Shenzhen| SHZ          | 1                     | 1    | Shanghai| SH           | 1                     |
| 2    | Guangzhou| GZ          | 0.994                 | 2    | Beijing | BJ           | 0.873                 |
| 3    | Shanghai| SH           | 0.952                 | 3    | Guangzhou| GZ           | 0.823                 |
| 4    | Beijing | BJ           | 0.905                 | 4    | Suzhou  | SZ           | 0.762                 |
| 5    | Xiamen  | XM           | 0.807                 | 5    | Shenzhen| SHZ          | 0.747                 |
| 6    | Chongqing| CQ          | 0.767                 | 6    | Hangzhou| HZ           | 0.73                  |
| 7    | Suzhou  | SZ           | 0.689                 | 7    | Tianjin | TJ           | 0.701                 |
| 8    | Quanzhou| QZ           | 0.675                 | 8    | Wuhan   | WH           | 0.69                  |
| 9    | Wuhan   | WH           | 0.674                 | 9    | Chengdu | CD           | 0.681                 |
| 10   | Fuzhou  | FZ           | 0.672                 | 10   | Chongqing| CQ           | 0.677                 |
| 11   | Zhumai  | ZH           | 0.651                 | 11   | Nanjing | NJ           | 0.635                 |
| 12   | Guilin  | GL           | 0.632                 | 12   | Wuxi    | WX           | 0.6                   |
| 13   | Chengdu | CD           | 0.63                  | 13   | Dalian  | DL           | 0.594                 |
| 14   | Hangzhou| HZ           | 0.579                 | 14   | Ningbo  | NB           | 0.582                 |
| 15   | Xi’an   | XA           | 0.568                 | 15   | Qingdao | QD           | 0.575                 |
| 16   | Qingdao | QD           | 0.536                 | 16   | Xi’an   | XA           | 0.569                 |
| 17   | Huangshan| HS          | 0.495                 | 17   | Shenyang| SHY          | 0.549                 |
| 18   | Tianjin | TJ           | 0.463                 | 18   | Changsha| CS           | 0.516                 |
| 19   | Nanjing | NJ           | 0.445                 | 19   | Xiamen  | XM           | 0.502                 |
| 20   | Dalian  | DL           | 0.44                  | 20   | Fuzhou  | FZ           | 0.502                 |
| 21   | Shenyang| SHY          | 0.438                 | 21   | Harbin  | HRB          | 0.49                  |
| 22   | Zhangzhou| ZAZ         | 0.437                 | 22   | Zhengzhou| ZZ           | 0.481                 |
| 23   | Kunming | KM           | 0.427                 | 23   | Hefei   | HF           | 0.474                 |
| 24   | Ningbo  | NB           | 0.397                 | 24   | Jinan   | JN           | 0.469                 |
| 25   | Yantai  | YT           | 0.383                 | 25   | Kunming | KM           | 0.451                 |
| 26   | Zhongshan| ZS           | 0.378                 | 26   | Nantong | NT           | 0.445                 |
| 27   | Changchun| CC          | 0.362                 | 27   | Changchun| CC           | 0.437                 |
To organize the discussion of the position of different cities in both distributions, we devise a typology of cities and discuss a number of concrete examples in this typology. The typology is presented in Figure 2, which centres the distribution on mean values of PDI and BEI thus dividing the distribution into four quadrants. For example, cities in the upper-right quadrant of Figure 2 have above-average PDI and BEI values. We will organize the discussion by zooming in on...
examples of cities in each of the quadrants, using the three main dimensions of the geographies of China’s internationalization as a broad interpretative framework.

Figure 2. PDI versus BEI of 50 Chinese cities

Source: authors’ calculations based on China’s National Tourism Statistics (2017), http://www.forbes.com/, http://fortune.com/, www.marketingandtechnology.com/, www.qualitytourism.cn/ and http://www.teaconnect.org/

4.1 Upper right quadrant

There are 17 cities in this quadrant, i.e. cities that have above-average PDI and BEI values. In general, all three broad patterns underlying Chinese cities’ tourism internationalization profile are present here.

First, a strong internationalization profile can be understood in terms of a city’s dominant position within the Chinese space-economy. For example, Shanghai having the highest BEI value corroborates to a large extent the city’s leading role in global business networks, which has been extensively documented in the literature (e.g. Li et al., 2017; Wu 2011). Extensive foreign direct investment (Wei et al., 2006), the agglomeration of multinational companies headquarters (Cai & Sit, 2003), the presence of the largest seaport in China (Li & Dawood, 2016) as well as the vast economic hinterland of Yangtze River Delta (Li et al., 2017) all attest to the global attractiveness of Shanghai for international business. Wu (2003) furthermore argues that the position of Shanghai in global business networks does not only reside in the volume of foreign investments per se, but in the catalytic effects associated with these foreign investments. Given this, it is no surprise that
international tourism companies often open offices in Shanghai: it acts as a key gateway into the Chinese market. In our study, we thus found that over 4000 international tourism enterprises have an operational basis in Shanghai. As a consequence, over and above a large PDI value Shanghai also has a proportionally large BEI value.

Hangzhou, in turn, provides a somewhat different example of a city with large BEI/PDI values but with the former being proportionally somewhat larger. International airlines such as Qatar Airways and KLM, which operate a more-than-daily service to Shanghai, have chosen Hangzhou a regular direct destination, and this even though the travel distance between Shanghai and Hangzhou is only 45 minutes by high-speed rail (CAPA, 2013). The CAPA report suggests that one of the reasons why these airlines are interested in Hangzhou is that it is one of China’s wealthiest cities and therefore home to a local market with sizable consumption power. Meanwhile, as Shutt and Cheng (2016) elaborate, the city’s international profile in general and in tourism in particular should also be understood in the context of the Hangzhou-based e-commerce giant Alibaba Group. The Alibaba Group plays an important role in attracting e-commerce conferences and exhibitions to Hangzhou (Wang et al., 2018), which in turn further enlarges the size of the local market for hotels, restaurants, etc. Alongside the logic of ‘foreign business following foreign tourists’, Hangzhou’s local market potential constitutes a possible reason for attracting international tourism enterprises. This is further confirmed by our data, which shows that the main contributor to Hangzhou’s BEI is the large number of branches of international hotels, restaurants and grocery stores.

Second, some of the non-coastal cities in this quadrant elaborate how a city’s particular position in the national administrative system underlies its tourism internationalization. In the context of the Chinese state’s policy, Chongqing, Xi’an and Chengdu all belong to the —relatively less developed— western region.¹ Xi’an and Chengdu are provincial capitals, while Chongqing is a municipality under the direct control of the central government. The political power derived from their position in the administrative system coupled with further support in light of a national ‘Go

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¹ The Seventh Five Year Plan adopted by the National People’s Congress in 1986 formally divided China into three regions: the East, the Middle and the West. The eastern part refers to the provinces and cities that first implemented the coastal opening policy and have a high level of economic development; the central part refers to the economically underdeveloped areas, while the western part refers to the economically underdeveloped western areas. This is a division based on policy, not on administration nor on geographical concept. Among them, the eastern region includes 11 provinces (cities) of Beijing, Tianjin, Hebei, Liaoning, Shanghai, Jiangsu, Zhejiang, Fujian, Shandong, Guangdong and Hainan; the central region includes 10 provinces (autonomous regions) of Shanxi, Inner Mongolia, Jilin, Heilongjiang, Anhui, Hubei, Hunan and Guangxi; the western region includes nine provinces (autonomous regions) of Sichuan, Guizhou, Yunnan, Xizang, Shanxi, Gansu, Qinghai, Ningxia and Xinjiang.
West’s economic development strategy (Roberts & Goh, 2011; Wang 2018; Zhai & Ng, 2013) has led to the concentration of economic activities and international connections within these cities (Liu et al., 2016). One visible embodiment is the support of the Chinese state for these cities’ airport construction, as shown by Chongqing, Xi’an and Chengdu being the only cities from Western China listed in the top 10 with the largest scale of investment in China (CAAC, 2019). In this sense, these cities’ positions result from national strategic economic policies and help attracting international firms (Taylor et al., 2015). So even though these cities also attract sizable numbers of tourists from all over the world because of their unique tourist profiles focused on pandas (Chengdu), the Terra Cotta Warriors (Xi’an) and the Three Gorges of the Yangtze River (Chongqing) and thus have a sizable PDI, they proportionally still have slightly higher BEI values in our analysis because of the relatively large number of branches of international hotels and restaurants.

Third, a high internationalization profile can also be explained in terms of specific city tourism plans and mechanisms alongside a specific location. Shenzhen has the highest PDI value among 50 Chinese cities. However, it should be noted that according to the statistics standards set by National Statistics Bureau of China, tourists from all regions except mainland China, and therefore including Hong Kong, Macao and Taiwan, are regarded as international tourists. Thus, Shenzhen’s geographical location close to Hong Kong is clearly a key element when explaining its PDI value. However, this sizable PDI value is not entirely matched in terms of BEI, which is proportionally somewhat lower. According to Zhang (2012), from 1989 onwards, the central government’s policy of promoting private investments in service industries in Shenzhen contributed to the birth and development of a large Shenzhen-based tourism group: the Overseas Chinese Town (OCT). Theme parks, hotels and restaurants owned by the OCT Group have played an instrumental role in attracting and serving international visitor — often from Hong Kong — to Shenzhen. Nonetheless, the near-absolute monopoly of the OTC group in the city’s tourism industry is to some extent challenged by the entry of international tourism enterprises (Liang & Bao, 2015). This is corroborated by our data: Shenzhen only has 50 international hotels included in our data, which is less than Chengdu and Xi’an.

5.2 Upper left quadrant

There are 7 cities in this quadrant, i.e. cities that have above-average BEI values but below-average PDI values. Of these 7 cities, three are located in the eastern part and the other four are located in the central part of China. One of the main processes underlying this internationalization
profile is the uneven impact of recent city tourism plans and mechanisms. In other words, cities in this category often tend to pursue a path where attracting international firms is a key part of their development trajectory, and this is also visible in the tourism sector. Harbin, the capital city of Heilongjiang Province and located in the northeastern part of China is an example here. The city is famous for its ice lanterns and ice sculptures in winter, and attracts millions of visitors every year (Kong & Chen, 2019; Xie et al., 2016). However, because the ‘ice’ tourism has a high seasonal dependence, when assessing the yearly numbers of tourists and days of stay into consideration, Harbin’s PDI value is below the average.

Nonetheless, the city’s local policy orientation on developing tourism internationalization has played an important role in attracting international tourism enterprises. As one of the cradles of heavy industry in China, many large state-owned enterprises are located in Harbin, and these are under major pressure to transition to become more market oriented. Nowadays, the city is positioned by the central government as a national ‘demonstration area’ for the smooth transition from heavy manufacturing to a service industry (Xie et al., 2016). Many corresponding policies and measures have been devised by the local government accordingly. Among them, one is to attract service enterprises, especially hospitality companies to strategically revive the city’s economic vitality (Xie et al., 2016). Meanwhile, the strategic location viz. adjacent countries such as Russia, Korea, Mongolia, and Japan (Kong & Chen, 2019) makes Harbin internationally connected. The city thus acts as a main gathering place of international commercial activities with the neighboring countries, hosting many international commercial conferences and exhibitions (Xie et al., 2016). All of these make the local market a potential target for international tourism firms. In addition, the development of international commercial events compensates for the loss of business during the low season.

5.3 Lower right quadrant

There are 6 cities in this quadrant, i.e. cities that have above-average PDI values but below-average BEI values. A first reason for this pattern can be found at the intersection of uneven development and specific city tourism plans and mechanisms. For example, Huangshan’s main tourist attraction is Huangshan Scenic Park, a world natural and cultural heritage listed by UNESCO (Ma and Hassink, 2013; Xu et al., 2016). Meanwhile, Guilin is a 2200-year-old city in Guangxi that is famous for its beautiful ‘mountain-river’ natural scenery (Pol sa & Xiucheng 2011;...
Sofield et al., 2017). These traditional and natural tourism resources in Huangshan and Guilin have given rise to a high PDI value. However, both cities tend to protect local tourism businesses. Huangshan is located in the less-developed mountain region of Anhui province, where land suitable for agriculture is limited (Xu et al., 2016). Guilin, in turn, is located in the less-developed Guangxi Autonomous Region, which is one of the poorest provinces in China (Polsa & Xiucheng, 2011). Against this background, a key policy dimension of the development of the tourism sector has been poverty alleviation (Polsa & Xiucheng, 2011; Xu et al., 2016). Thus, when attracting international tourists, these cities’ strategy has been to develop local, often small and medium-sized tourism firms instead of attracting international tourism firms to participate in the local market. For example, only few preferential policies and incentives for international tourism firms have been introduced, thus leading to a situation where BEI and PDI are not in balance (Ma & Hassink, 2013; Polsa & Fan, 2011; Xu, 1999).

A second pattern can be attributed to specific city tourism plans in conjunction with a specific location. Like Shenzhen, Zhuhai’s sizable PDI value partly emanates from its location close to Hong Kong and above all Macao. However, this is not matched by a high BEI value. A first explanation is that international visitors often use Zhuhai as an entry point rather than as a destination (Tieben, 2012). This is shown in our data in that the city combines a large number of international arrivals with a short average stay (i.e., less than 2 days). This in turn has a negative impact on the city’s attractiveness to international tourism firms, especially to international hotels and catering enterprises which focus on ‘over-night business’. A second possible explanation for Zhuhai’s relatively lower BEI value is that, relative to other cities in the Pearl River Delta, economic development is less of dominant policy goal. Although it is one of the earliest National Special Economic Zones (dating back to the year of 1980), it is well known for advancing a ‘green’ and ecological development strategy (Tieben, 2012). This ‘green’ strategy has been argued to slow down Zhuhai’s economic development because of the cost price associated with local environmental protection requirements (Sheng & Tang, 2013; Xu & Yeh, 2013). These are often much stricter than those in other Chinese cities, and also entail detailed auditing and bureaucratic procedures. Collectively, this works ‘against’ international firms moving into Zhuhai, and this is also visible in its BEI value.

5.4 Lower left quadrant

There are 20 cities in this quadrant, i.e. cities that have below-average PDI and BEI values. Mirroring the pattern in the upper right quadrant, these cities’ internationalization profile can be
understood within the context of the three broad patterns outlined in the literature review. Ten of the 20 cities are located in eastern China, but none of them is a provincial capital; seven of the 20 cities are located in central China, and here four are provincial capitals, the remaining three cities are located in western China, and all of these are provincial capitals. The interaction between the benefits of being a provincial capital and the coastal/western gradient are obvious: according to the data of National Statistics Bureau (2018), the GDP of the provinces where these provincial capitals are located are below the Chinese average. The lower per capita economic output of these cities is often directly related to their local market potential, which – as previously argued and shown in the case of Hangzhou – is one of the main location considerations of international tourism enterprises when seeking out urban markets.

Furthermore, these cities often have no targeted policies in place to attract either international tourists or international tourism firms. For example, when scanning the official tourism websites of all of these cities in April 2019, it was found that they had all set up a platform to promote tourism and attract tourism investments. However, at the same time, only 4 out of 20 (i.e. Sanya, Luoyang, Guiyang and Zhanjiang) had an English-language (or any other language for that matter) version of this website. The poor use of international languages in the city’s government official tourism website reflects to some extent the policy orientation of the cities in this quadrant in focusing domestic rather than international tourism.

And finally, there are of course very idiosyncratic patterns, with Lhasa as an obvious example. In spite of its striking world heritage and religious sites (e.g. Potala Palace, Jokhang Temple, and Norbulinka) and other aspects of Buddhist culture and the natural surroundings (Wu and Pearce, 2014), both Lhasa’s PDI and BEI are very low. Since the early 1980s, Lhasa –literally ‘place of gods’– has seen a tourism revival, not only as a major pilgrimage site for Tibetan Buddhists but also as an alluring tourist destination for in light of its unique setting and culture (Murakami, 2008). During the early stages of this development, local tourist agencies and hotels were created to accommodate the growing number of tourists. Infrastructure conducive to accessing Lhasa was also established, for example international flights were introduced in 1987 and the Qinghai-Tibet Railway was established in 2006. Authorities seem to have been successful in establishing Tibet’s tourism brand within and outside China during the late 1990s, which contributed to the significant rise of above all domestic tourism in subsequent years. The relative lagging of international tourism can be attributed to ongoing (geo)political tensions, which lead to complex procedures for international tourists to enter Tibet in general and its main entry point Lhasa in particular. According to the regulations by the Ministry of Culture and Tourism in China,
in addition to passports and visas, foreigners need to apply for “entry permits” to be able to
travel in Tibet. They also have to travel in groups, and can only enter by air or train. These
regulations together with the geographical conditions (e.g. being surrounded by mountains and
its high altitude) and poor accessibility (Cheng et al., 2018) limit to a large extent the number of
international tourists to Lhasa, and this is reflected in its relative low PDI value. Meanwhile, in
addition to the common procedures applicable for foreign companies who want to enter the
Chinese market, international tourism firms planning to operate in Tibet need to pass through two
additional procedures, i.e. they need to apply for the permission for the firm and their staff to
entry Lhasa (and Tibet) and acquire special residence permission for them. These cumbersome
administrative regulations, together with the specific living conditions for foreign staff (e.g. high
altitude) and the broader geopolitical tensions that further complicate this, restrict the possibility to
attract foreign firms, and hence the lowest BEI value of Lhasa among all 50 cities.

5 Conclusions

This paper had a methodological, an empirical, and a conceptual objective. The methodological
objective was to explore ways to differentiate between, and subsequently compare BEI and PDI in
cities’ roles as international tourism hubs. As we specified the former, we paid attention to direct
(e.g. hotel chains) and more indirect (e.g. hospitals aimed at an international client base)
measures of a city’s tourism BEI. The empirical objective, in turn, was to illustrate the practical
implementation of this methodology by focusing on the case of China. More specifically, we
elaborated on the degree to which 50 major Chinese cities have developed a tourism BEI and
subsequently relate this with the importance of those cities as destinations for international tourists
as a measure of PDI. And finally, the conceptual objective was to deepen our understanding of
the (uneven) internationalization of the Chinese urban tourism industry by interpreting it in the
context of the broader literature on the changing urban-economic geographies of China.
Although our analysis obviously does not provide a comprehensive analysis of each of the cities
in light of this, the combination of the typology and the interpretative framework helps clarifying
how cities are unevenly embedded into networks of international tourists and international tourism
businesses. This framework could be adopted or adapted for research in other geographical
contexts and/or for international comparative analyses. Our results thus show that, in general,
there are broad parallels between BEI and PDI, with a limited number of cities such as Shanghai,
Guangzhou, Beijing or Shenzhen acting as key international tourism hubs in both respects. In
spite of these general parallels, there are also some notable differences, which we trace back to
processes structuring the Chinese space-economy, its broader politico-administrative system, and often-specific tourism and city development strategies of local governments. These processes unevenly interlock in complex ways, and play out unevenly in the face of specific locations (e.g. the vicinity of Hong Kong and Macau for Shenzhen and Zhuhai).

Our study obviously has limitations, which can be recast as possible avenues for future research. First, the current analytical framework has only looked at eight types of tourism firms, and future analyses could therefore incorporate other types of firms. Furthermore, we could work with disaggregations of both PDI and BEI in terms of typology and geography. Second, rather than discussing specific examples of the uneven embedding of cities in flows of international tourists and firms (such as taxation, hospitality, culture, etc.), these could be systematically mapped and compared with our data. Third, this is a cross-sectional analysis, and an obvious extension of the research would be a longitudinal analysis to gauge how the internationalization the Chinese tourism market changes over time (cf. Derudder & Taylor, 2016). For example, in March 2018, the Development and Reform Commission and the Commerce Bureau of Tibet jointly issued “Several Provisions on Preferential Policies for Attracting Investment in Tibet”, in which the ‘tourism industry’ was specifically listed as one of the seven major categories for attracting foreign direct investment (FDI). Such incentives may help attracting international tourism firms to Lhasa. And fourth and finally, another drawback of a cross-sectional analysis is that we have merely looked at co-presence of BEI and PDI. This implies we could engage in informed speculation of how these influence each other, but the actual processes and mechanisms require further research that adopts another methodological framework.

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References

Aydin, B., & Emeksiz, M. (2018). Sustainable urban tourism success factors and the economic performance of small tourism enterprises. Asia Pacific Journal of Tourism Research, 23(10), 975-988. https://doi.org/10.1080/10941665.2018.1513049

Biggs, D., Hall, C. M., & Stoeckl, N. (2011). The resilience of formal and informal tourism enterprises to disasters: reef tourism in Phuket, Thailand. Journal of Sustainable Tourism, 20(5), 645-665. https://doi.org/10.1080/09669582.2011.630080

Bruning, E. R. (1997). Country of origin, national loyalty and product choice: The case of international air travel. International Marketing Review, 14(1), 59-74. https://doi.org/10.1108/02651339710159215

CAAC (2019). CAAC Issues 2018 Statistical Bulletin for Civil Aviation Airports. Retrieved from http://www.caac.gov.cn/en/XWZX/201903/t20190319_195255.html

CAPA (2013). Hangzhou Xiaoshan International Airport. Retrieved from http://centreforaviation.com/data/profiles/airports/hangzhou-xiaoshan-international-airport-hgh

Cai, J., & Sit, F. S. V. (2003). Measuring world city formation – The case of Shanghai. The Annals of Regional Science, 37(3), 435-446. https://doi.org/10.1007/3-540-28351-X_16

Cheng, G., Zhao, S., & Huang, D. (2018). Understanding the Effects of Improving Transportation on Pilgrim Travel Behavior: Evidence from the Lhasa, Tibet, China. Sustainability, 10(10), 3528. https://doi.org/10.3390/su10103528

Cui, X. M., & Ryan, C. (2011). Perceptions of place, modernity and the impacts of tourism-differences among rural and urban residents of Ankang, China: A likelihood ratio analysis. Tourism Management, 32(3), 604-615. https://doi.org/10.1016/j.tourman.2010.05.012

Demir, E., & Gozgor, G. (2018). Does freedom of the press enhance inbound tourism? Current Issues in Tourism, 22(20), 2550-2565. https://doi.org/10.1080/13683500.2018.1470608

Deng, T., Li, X., & Ma, M. (2017). Evaluating impact of air pollution on China’s inbound tourism industry: A spatial econometric approach. Asia Pacific Journal of Tourism Research, 22(7), 771-780. https://doi.org/10.1080/10941665.2017.1331923

Derudder, B., & Taylor, P. J. (2016). Change in the World City Network, 2000–2012. The Professional Geographer, 68(4), 624-637.
Derudder, B., & Taylor, P. J. (2018). Central flow theory: Comparative connectivities in the world-city network. *Regional Studies, 52*(8), 1029-1040. [https://doi.org/10.1080/00330124.2016.1157500](https://doi.org/10.1080/00330124.2016.1157500)

Derudder, B., & Taylor, P. J. (2020). Three globalizations shaping the twenty-first century: understanding the new world geography through its cities. *Annals of the American Association of Geographers, 110*(6), 1831-1854. [https://doi.org/10.1080/24694452.2020.1727308](https://doi.org/10.1080/24694452.2020.1727308)

Díez-Pisonero, R., Gago, C., & Córdoba, J. (2018) The role of cultural and creative services in the evaluation of the world urban system. *Norwegian Journal of Geography, 72*(4), 197-216. [https://www.tandfonline.com/doi/abs/10.1080/00291951.2018.1498122](https://www.tandfonline.com/doi/abs/10.1080/00291951.2018.1498122)

Erkus, O, H. (2016). (Un) related variety, urban milieu and tourism-company differentiation. *Tourism Geographies, 18*(4), 422-444. [https://doi.org/10.1080/14616688.2016.1200129](https://doi.org/10.1080/14616688.2016.1200129)

Feng, X. (2011). Regional tourism cooperation: Factors influencing the performance of regional tourism cooperation in China. Maastricht: Shaker Publishing.

Feng, X. (2018). *Hangzhou, China. ‘Overtourism’? Understanding and Managing Urban Tourism Growth beyond Perceptions, Executive Summary*. Madrid: UNWTO. [https://doi.org/10.18111/9789284420070](https://doi.org/10.18111/9789284420070)

Goh, C., Li, H., & Li, M. (2014). A comparative analysis of domestic and international tourism spatial distribution: Trends and impacts. *Journal of China Tourism Research, 10*(4), 388-413. [https://doi.org/10.1080/19388160.2014.906933](https://doi.org/10.1080/19388160.2014.906933)

Gorcheva, T. (2011). Measuring the internationalization of Bulgarian tourism and of “Bulgaria business destination. *Tourism & Management Studies, 1*(1), 80-90.

Gu, C., Hu, L., & Cook, I. G. (2017). China’s urbanization in 1949–2015: Processes and driving forces. *Chinese geographical science, 27*(6), 847-859.

Huang, L., Yan, L., & Wu, J. (2016). Assessing urban sustainability of Chinese megacities: 35 years after the economic reform and open-door policy. *Landscape and Urban Planning, 145*, 57-70. [https://doi.org/10.1016/j.landurbplan.2015.09.005](https://doi.org/10.1016/j.landurbplan.2015.09.005)

Kong, S., & Chen, H. (2019). Correction to: Wonderland in winter and little Europe in summer: a case study on how Harbin promotes its international image. *Place Branding and Public Diplomacy, 15*(1), 66-66. [https://doi.org/10.1057/s41254-018-00109-z](https://doi.org/10.1057/s41254-018-00109-z)
Kucukusta, D., & Guillet, B. D. (2015). Lifestyle segmentation of spa users: A study of inbound travelers to Hong Kong. *Asia Pacific Journal of Tourism Research, 21*(3), 239-258. [https://doi.org/10.1080/10941665.2015.1025087](https://doi.org/10.1080/10941665.2015.1025087)

Lassen, C. (2006). Aeromobility and work. *Environment and Planning A, 38*(2), 301-312. [https://doi.org/10.1068/a37278](https://doi.org/10.1068/a37278)

Li, Y., & Wei, Y. D. (2010). The spatial-temporal hierarchy of regional inequality of China. *Applied Geography, 30*(3), 303-316. [https://doi.org/10.1016/j.apgeog.2009.11.001](https://doi.org/10.1016/j.apgeog.2009.11.001)

Li, Y., Zhang, H., Zhang, D., & Abrahams, R. (2019). Mediating urban transition through rural tourism. *Annals of Tourism Research, 75*, 152-164. [https://doi.org/10.1016/j.annals.2019.01.001](https://doi.org/10.1016/j.annals.2019.01.001)

Li, Z., & Dawood, S. R. S. (2016). World City Network in China: A Network Analysis of Air Transportation Network. *Modern Applied Science, 10*(10), 213. [http://dx.doi.org/10.5539/mas.v10n10p213](http://dx.doi.org/10.5539/mas.v10n10p213)

Li, Z., Yang, S., & Dawood, S. R. S. (2017). Global Urban Development in China: A Case Study of Shanghai in the Context of Globalization. *International Journal of Academic Research in Business and Social Sciences, 7*(12), 2222-6990. [http://dx.doi.org/10.6007/IJARBSS/v7-i12/3730](http://dx.doi.org/10.6007/IJARBSS/v7-i12/3730)

Liang, Z. X., & Bao, J. G. (2015). Tourism gentrification in Shenzhen, China: causes and socio-spatial consequences. *Tourism Geographies, 17*(3), 461-481. [https://doi.org/10.1080/14616688.2014.1000954](https://doi.org/10.1080/14616688.2014.1000954)

Liang, Z., & Hui, T. (2016). Residents’ quality of life and attitudes toward tourism development in China. *Tourism Management, 56-67*. [https://doi.org/10.1016/j.tourman.2016.05.001](https://doi.org/10.1016/j.tourman.2016.05.001)

Lim, C., & Pan, G. W. (2005). Inbound tourism developments and patterns in China. *Mathematics and Computers in Simulation, 68*(5), 499-507. [https://doi.org/10.1016/j.matcom.2005.02.004](https://doi.org/10.1016/j.matcom.2005.02.004)

Liu, J., Nijkamp, P., & Lin, D. (2017). Urban-rural imbalance and tourism-led growth in China. *Annals of Tourism Research, 24-36*. [https://doi.org/10.1016/j.annals.2017.02.005](https://doi.org/10.1016/j.annals.2017.02.005)

Liu, X., Derudder, B., & Wu, K. (2016). Measuring polycentric urban development in China: An intercity transportation network perspective. *Regional Studies, 50*(8), 1302-1315. [https://doi.org/10.1080/00343404.2015.1004535](https://doi.org/10.1080/00343404.2015.1004535)
Ma, M., & Hassink, R. (2013). Path dependence and tourism area development: The case of Guilin, China. *Tourism Geographies, 16*(4), 580-597. [https://doi.org/10.1080/14616688.2014.925966](https://doi.org/10.1080/14616688.2014.925966)

Melin, L. (1992). Internationalization as a strategy process. *Strategic Management Journal, 13*(2), 99-118. [https://doi.org/10.1002/smj.4250130908](https://doi.org/10.1002/smj.4250130908)

Miller, T. (2012). *China’s urban billion: the story behind the biggest migration in human history*. Zed Books Ltd.

Ministry of Cultural and Tourism of the People’s Republic of China (2020). [https://www.mct.gov.cn/whzx/whyw/202102/t20210203_921238.htm](https://www.mct.gov.cn/whzx/whyw/202102/t20210203_921238.htm)

Murakami, D. (2008). Tourism Development and Propaganda in Contemporary Lhasa, Tibet Autonomous Region (TAR), China. In J. Cochrane (Ed.), *Asian tourism: Growth and change* (pp. 55-68). Amsterdam: Elsevier.

Peng, J., & Xiao, H. (2018). How does smog influence domestic tourism in China? A case study of Beijing. *Asia Pacific Journal of Tourism Research, 23*(12), 1115-1128. [https://doi.org/10.1080/10941665.2018.1527776](https://doi.org/10.1080/10941665.2018.1527776)

Pine, R. J., Lam, T., & Zhang, H. Q. (2013). *Tourism and hotel development in China: From political to economic success*. London: Routledge.

Polsa, P., & Fan, X. (2011). Globalization of local retailing: Threat or opportunity? The case of food retailing in Guilin, China. *Journal of Macromarketing, 31*(3), 291-311. [https://doi.org/10.1177/0276146711408099](https://doi.org/10.1177/0276146711408099)

Polyzos, S., & Minetos, D. (2011). An ordinal regression analysis of tourism enterprises’ location decisions in Greece. *Anatolia—An International Journal of Tourism and Hospitality Research, 22*(01), 102-119. [https://doi.org/10.1080/13032917.2011.556225](https://doi.org/10.1080/13032917.2011.556225)

Ren, X. (2013). *Urban China*. Cambridge, UK: Polity Press.

Roberts, M., & Goh, C. C. (2011). Density, distance and division: the case of Chongqing municipality, China. *Cambridge Journal of Regions, Economy and Society, 4*(2), 189-204. [https://doi.org/10.1093/cjres/rsr011](https://doi.org/10.1093/cjres/rsr011)

Scheyvens, R., & Russell, M. (2011). Tourism and poverty alleviation in Fiji: Comparing the impacts of small-and large-scale tourism enterprises. *Journal of Sustainable Tourism, 20*(3), 417-436. [https://doi.org/10.1080/09669582.2011.629049](https://doi.org/10.1080/09669582.2011.629049)
Sheng, N., & Tang, U. W. (2013). Zhuhai. Cities, 32, 70-79. https://doi.org/10.1016/j.cities.2013.02.006

Shutt, J., & Cheng, H. (2016). China: Hangzhou and Zhejiang—a Beacon for the New Chinese Economy? Regions, 301(1), 4-34. https://doi.org/10.1080/13673882.2016.11720259

Sofield, T. H., Li, F. M. S., Wong, G. H., & Zhu, J. J. (2017). The heritage of Chinese cities as seen through the gaze of zhonghua wenhua—‘Chinese common knowledge’: Guilin as an exemplar. Journal of Heritage Tourism, 12(3), 227-250. https://doi.org/10.1080/1743873X.2016.1243121

Su, B. (2011). Rural tourism in China. Tourism management, 32(6), 1438-1441. https://doi.org/10.1016/j.tourman.2010.12.005

Su, R., Bramwell, B., & Whalley, P. (2017). Cultural political economy and urban heritage tourism. Annals of Tourism Research, 30-40. https://doi.org/10.1016/j.annals.2017.11.004

Tang, L., Manthiou, A., Morrison, A. M., Shin, J., & Chiang, L. (2015). A holistic approach to activity preference patterns: International tourists and their visits to Shanghai, China. International Journal of Tourism Sciences, 12(1), 107-136. https://doi.org/10.1080/15980634.2012.11434655

Taylor, P., Derudder, B., Hoyler, M., Ni, P., & Witlox, F. (2014). City-dyad analyses of China’s integration into the world city network. Urban Studies, 51(5), 868-882. https://doi.org/10.1177/0042098013494419

Taylor, P., Ni, P., & Liu, K. (2015). Global research of cities: A case of Chengdu. Singapore: Springer.

Tieben, H. (2012). Emerging cross border tourism Region Macau-Zhuhai: place in play/place to play. ARA: Journal of Tourism Research/Revista de Investigación Turística, 3(2), 145-153.

Tukamushaba, E. K., Lin, V. S., & Bwire, T. (2013). Modeling and forecasting inbound tourism demand for long-haul markets of Beijing. Journal of China Tourism Research, 9(4), 489-506. https://doi.org/10.1080/19388160.2013.841505

Valadkhani, A., & Omahony, B. (2018). Identifying structural changes and regime switching in growing and declining inbound tourism markets in Australia. Current Issues in Tourism, 21(3), 277-300. https://doi.org/10.1080/13683500.2015.1072504
Wang, J., Huang, P., Zhao, H., Zhang, Z., Zhao, B., & Lee, D. L. (2018). Billion-scale commodity embedding for e-commerce recommendation in Alibaba. In Proceedings of the 24th ACM SIGKDD International Conference on Knowledge Discovery & Data Mining (pp. 839-848). https://doi.org/10.1145/3219819.3219869

Wang, L., Shen, J., & Chung, C. K. L. (2015). City profile: Suzhou—a Chinese city under transformation. Cities, 44, 60-72. https://doi.org/10.1016/j.cities.2014.12.005

Wang, T. (2018). Research on the Construction of National Central City Comprehensive Transportation Hub—Taking Chengdu City as an Example. In 2018 3rd International Conference on Education, E-learning and Management Technology (EEMT 2018) (pp. 398-402). https://doi.org/10.2991/iceemt-18.2018.77

Wang, Y., & Bramwell, B. (2012). Heritage protection and tourism development priorities in Hangzhou, China: A political economy and governance perspective. Tourism Management, 33(4), 988-998. https://doi.org/10.1016/j.tourman.2011.10.010

Wei, Y. D., Leung, C. K., & Luo, J. (2006). Globalizing Shanghai: foreign investment and urban restructuring. Habitat International, 30(2), 231-244. https://doi.org/10.1016/j.habitatint.2004.02.003

Wei, Y. D., Li, H., & Yue, W. (2017). Urban land expansion and regional inequality in transitional China. Landscape and Urban Planning, 163, 17-31. https://doi.org/10.1016/j.landurbplan.2017.02.019

Welch, L. S., & Luostarinen, R. (1988). Internationalization: Evolution of a concept. Journal of General Management, 14(2), 34-55. https://doi.org/10.1177/030630708801400203

Wen, J. J., & Sinha, C. (2009). The spatial distribution of tourism in China: Trends and impacts. Asia Pacific Journal of Tourism Research, 14(1), 93-104. https://doi.org/10.1080/10941660902756776

Wen, J., & Tisdell, C. (1997). Regional inequality and tourism distribution in China. Pacific Tourism Review, 1(2), 119.

Williams, A. M., & Shaw, G. (2011). Internationalization and innovation in tourism. Annals of Tourism Research, 38(1), 27-51. https://doi.org/10.1016/j.annals.2010.09.006

Wu, F. (2003). Globalization, place promotion and urban development in Shanghai. Journal of Urban Affairs, 25(1), 55-78. https://doi.org/10.1111/1467-9906.00005
Wu, J. (2011). Globalization and emerging office and commercial landscapes in Shanghai. *Urban Geography, 32*(4), 511-530. https://doi.org/10.2747/0272-3638.32.4.511

Wu, M. Y., & Pearce, P. L. (2014). Asset-based community development as applied to tourism in Tibet. *Tourism Geographies, 16*(3), 438-456. https://doi.org/10.1080/14616688.2013.824502

Xie, L., Yang, Z., Cai, J., Cheng, Z., Wen, T., & Song, T. (2016). Harbin: A rust belt city revival from its strategic position. *Cities, 58*, 26-38. https://doi.org/10.1016/j.cities.2016.05.009

Xu, G. (1999). Socio-economic impacts of domestic tourism in China: Case studies in Guilin, Suzhou and Beidaihe. *Tourism Geographies, 1*(2), 204-218. https://doi.org/10.1080/14616689908721310

Xu, H., Zhu, D., & Bao, J. (2016). Sustainability and nature-based mass tourism: lessons from China’s approach to the Huangshan Scenic Park. *Journal of Sustainable Tourism, 24*(2), 182-202. https://doi.org/10.1080/09669582.2015.1071381

Xu, J., & Yeh, A. G. (2013). Interjurisdictional cooperation through bargaining: The case of the Guangzhou–Zhuhai railway in the Pearl River Delta, China. *The China Quarterly, 213*, 130-151. https://doi.org/10.1017/S0305741013000283

Yu, L., Ap, J., & Guangrui, Z. (2003). *Tourism in China*. New York: Haworth Hospitality Press.

Zhai, B., & Ng, M. K. (2013). Urban regeneration and social capital in China: A case study of the Drum Tower Muslim District in Xi’an. *Cities, 35*, 14-25. https://doi.org/10.1016/j.cities.2013.05.003

Zhang, J. (2012). From Hong Kong’s capitalist fundamentals to Singapore’s authoritarian governance: The policy mobility of neo-liberalising Shenzhen, China. *Urban Studies, 49*(13), 2853-2871. https://doi.org/10.1177/0042098012452455

Zhang, Y., Xu, J., & Zhuang, P. (2011). The spatial relationship of tourist distribution in Chinese cities. *Tourism Geographies, 13*(1), 75-90. https://doi.org/10.1080/14616688.2010.529931

Zhou P. (2019) Development Policy, Prospective and Investment Outlook of China’s Tourism Industry. In *The Theory and Practice of China’s Tourism Economy (1978–2017)* (pp. 99-114). Singapore: Springer.

Zhu, S., Yu, C., & He, C. (2020). Export structures, income inequality and urban-rural divide in China. *Applied Geography, 115*, 102150. https://doi.org/10.1016/j.apgeog.2020.102150
## Appendix I. List of the 205 international tourism firms

| Status        | Type                  | Firm                                                                 |
|---------------|-----------------------|----------------------------------------------------------------------|
| Direct-Related | International Hotel   | Ibis, Days Inn, Fairfield by Marriott, Holiday Inn Express, Millennium, Jumeirah, Fraser Residence, Fraser Place, Fraser Suites, Somerset, Citadines, Ascott, Oak wood, Aman, Banyan Tree, Angsana, Grand Park, Pan Pacific, Okura, Nikko, St.Regis, Aloft, The Luxury Collection, Sheraton, Ritz-Carlton, Tribute Portfolio, Marriott, JW Marriott, le meridien, W Hotel, Courtyard, Renaissance, Edition, Autograph Collection, Four Points By Sheraton, Element, Marriott Executive Apartments, Westin, Waldorf Astoria, Hilton, Hampton by Hilton, DoubleTree by Hilton, Conrad, Hilton Garden Inn, Radisson, Disneyland hotel, MGM Grand, InterContinental, Indigo, Crowne Plaza, Holiday Inn, Barony, Fairmont, Mercure, Grand Mercure, Pullman, Novotel, Swissotel, Sofitel, Raffles, Campanile, Tulip Inn, Club Med, Bulgari, Swissstouches, Melia, Innsdie, Hyatt, Andaz, Grand hyatt, Hyatt Place, Park Hyatt, Hyatt House, Encore, Wyndham Grand Plaza, Wyndham, Four Seasons, Kempinski, Argyle Hotel, Mandarin Oriental, Shangri-La, Hotel Jen, Anantara, Shama, Best Western |
| International  | Restaurant            | McDonald’s, Starbucks, Subway, KFC, Domino’s Pizza, Burger King, Pizza Hut, Dunkin’ Donuts, Costa Coffee, Taco Bell, Papa John’s, Cheesecake Factory, Carl’s JR |
| International  | Travel Agency         | China Eurobusiness Travel — Leading Travel, KAD International Travel Services Ltd., Erguvan Tourism and Travel Agency INC, Travel Corporation Asia, Silkway Travel and Cruise Inc (DBA TPI Silkway), Europa Holiday Travel, Pan Pacific Enterprises Group Inc, PTC Express Travel, Hawaii Global Holiday Inc, Vimei-Tours s.r.o., Full Mark Tour, S/A International Group Limited, Westrip,S.L., HanaTour, Italybaci(ftravel srl), Soaring China S.A, Vosaio Travel Ltd, Anglo Chinese Executive Travel, Ceecontact GmbH, H.D.M.C.Destination Management Company Limited, Frayin International Srl, Galaxy Tour,INC (U.S.A.), Voglia D’ Italia Tour S.R.L, Lex Travel Pte Ltd, Hunter Intentional Travel & Tourism L.L, Topway International Travel Service Inc., Hino Travel Limited, Voyage Arc-en-ciel GmbH, A China Travel Ltd., Gartour S.R.L, C.C.T Express Co. Ltd, Great Wall Travel, Oceanwide International Business & Travel Service Centre, Solar Empire Travel, African Century Tours, Australian Tours Management Pty Ltd. |
| International  | Theme Park             | Walt Disney Attractions, Melin Entertainments Group |
| International  | Tourism NGOs           | International Air Transport Association (IATA), International Civil Aviation Organization (ICAO), Pacific Asia Travel Association (PATA), World Economic Forum (WEF), World Tourism Organization (UNWTO), International Society for Aeronautical... |
| Status                  | Type                  | Firm                                                                                                                                   |
|------------------------|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Indirect-related       | International         | Wal-Mart Stores, Carrefour, Tesco, Metro, 7-Eleven, Auchan, Lotus Market, Aeon, FamilyMart, Lawson                                           |
|                        | Grocery Stores        |                                                                                                                                        |
|                        | International         | Global Doctors, United Family Healthcare, parkwayhealth, Raffles Medical Group, WA Health Care, Bellaire Int'l Healthcare, Towako, EuroEyes, Tokushinkai Dental, Mass Medical International Corp |
|                        | Hospital              |                                                                                                                                        |
|                        | International         | Allianz, AXA, AXA assistance, Assicurazioni Generali, Europ Assistance, Nippon Life Insurance, UnitedHealth Group, Munich Re Group, Swiss Re, AETNA, Scor, Willis Towers Watson, AIG Group, AIA Group Limited, Tokio Marine Holdings, Sumitomo Life Insurance, New York Life Insurance, libertymutual, Meiji Yasuda Life Insurance, CHUBB, Samsunganycar, Aioinissaydowa, Fosun BHD, Odysseyre, Mapfre, Coface, Royal Bank of Canada, Principal Life Insurance Company, General Reinsurance Corporation, Factory Mutual Insurance Company, Lockton, Jardine Lloyd Thompson, STARR, Lloyd’s insurance, MSH International, Bupa, Medilink global, Emergency assistance, ERV Travel Insurance, Sompo Japan Nipponkoa, Sompo |
|                        | Insurance company     |                                                                                                                                        |

Source: authors’ calculations based on China’s National Tourism Statistics (2017), [http://www.forbes.com/](http://www.forbes.com/), [http://fortune.com/](http://fortune.com/), [www.marketingandtechnology.com/](http://www.marketingandtechnology.com/), [www.qualitytourism.cn/](http://www.qualitytourism.cn/) and [http://www.teaconnect.org/](http://www.teaconnect.org/)