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Entry on difficult export markets by Chinese domestic firms: The role of foreign export spillovers

Florian Mayneris & Sandra Poncet

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**ENTRY ON DIFFICULT EXPORT MARKETS BY CHINESE DOMESTIC FIRMS:
THE ROLE OF FOREIGN EXPORT SPILLOVERS****NON-TECHNICAL SUMMARY**

Recent studies have focused on the role of foreign firms in the surge of Chinese exports over the past 20 years. Most of the literature has focused on the direct contribution of foreign firms, suggesting that they account for most of the quantitative and qualitative growth of Chinese exports. Some studies indicate that foreign firms also exert an indirect impact on domestic ones through export spillovers. Foreign exporting firms might diffuse specific information on foreign consumers' tastes or on export administrative procedures that might help domestic firms located in the same neighborhood to enter on export markets. Exporting firms might also mutualize some costs linked to the participation to international fares or to the transport of their commodities, which will reduce the individual cost to conquer new markets.

Mayneris and Poncet (2011) show that the probability that Chinese domestic firms start exporting a given product to a given country responds positively to the presence of foreign firms in the same province exporting, the year before, the same product to the same country. In this paper, we explore how the intensity of foreign export spillovers in China varies depending on the difficulty of entry on export markets. If we think of institutional quality or administrative duties as a fixed export cost, the marginal impact of export spillovers might be more important for more difficult countries. We expect in line with Koenig et al. (2010b)'s results on France that the diffusion of specific information will be more valuable in this case. We rely on different proxies to define what a "difficult" country is and we find that the presence of surrounding foreign exporting firms helps domestic ones to start exporting, especially when destination countries are difficult. While on average exposure to foreign exporters is associated with a 10% increase of the probability that domestic firms from the same province start exporting the year after, the figure is around 50% higher when the targeted destination country is identified as difficult. Our results are consistent with the idea that exposure to foreign exporters helps to reduce the fixed cost of creating new trade linkages. Our finding hence suggests that the increasing presence of foreign exporting firms in China might contribute to the diversification of Chinese domestic firms' exports towards more difficult and previously inaccessible destinations.

ABSTRACT

In this study, we explore how the intensity of foreign export spillovers in China varies depending on the difficulty of entry on export markets. We rely on different proxies to define what a “difficult” country is and we find that the presence of surrounding foreign exporting firms helps domestic ones to start exporting, especially when destination countries are difficult. While on average exposure to foreign exporters is associated with a 10% increase of the probability that domestic firms from the same province start exporting the year after, the figure is around 50% higher when the targeted destination country is identified as difficult. Our results are consistent with the idea that exposure to foreign exporters helps to reduce the fixed cost of creating new trade linkages. Our finding hence suggests that the increasing presence of foreign exporting firms in China might contribute to the diversification of Chinese domestic firms’ exports towards more difficult and previously inaccessible destinations.

JEL Classification: F1, R 12

Key Words: Export spillovers, China, agglomeration

L'ENTRÉE DES ENTREPRISES CHINOISES SUR LES MARCHÉS INTERNATIONAUX DIFFICILES : LE RÔLE DES EXTERNALITÉS À L'EXPORTATION

RÉSUMÉ NON TECHNIQUE

De nombreuses études ont mis en évidence le rôle des entreprises étrangères dans l'essor des exportations chinoises au cours des vingt dernières années. La plupart de ces travaux ont porté sur la contribution directe des entreprises étrangères, à l'origine de la plus grande partie de la croissance quantitative et qualitative des exportations chinoises. Cependant, certaines études indiquent que les entreprises étrangères exercent également un impact indirect sur les exportations des entreprises nationales par le biais d'effets d'agglomération. En diffusant des informations spécifiques, sur les goûts des consommateurs étrangers ou sur les procédures administratives à l'exportation par exemple, les entreprises exportatrices étrangères pourraient aider les entreprises nationales situées dans la même région à faire leurs premiers pas sur les marchés d'exportation. Les entreprises exportatrices peuvent également mutualiser certains coûts liés à la participation à des foires internationales ou au transport des marchandises, ce qui permet de réduire le coût individuel de la conquête de nouveaux marchés.

Mayneris et Poncet (2011) montrent que la probabilité que les entreprises nationales chinoises commencent à exporter un produit donné vers un pays donné répond positivement à la présence dans la même province d'entreprises étrangères exportant, l'année précédente, le même produit vers le même pays. Nous étendons ici cette étude pour explorer comment l'intensité des effets d'agglomération sur les exportations en Chine varie selon la difficulté d'entrée sur les marchés étrangers. En effet, si l'on associe les barrières institutionnelles ou administratives à l'entrée à un coût fixe d'exportation, l'impact marginal des externalités sur l'exportation pourrait être plus important pour les pays plus difficiles. En ligne avec les résultats obtenus par Koenig et al. (2010b) sur le cas de la France, nous nous attendons à ce que la diffusion d'informations spécifiques soit particulièrement bénéfique dans ce cas. En utilisant différents indicateurs pour définir ce qu'est un pays « difficile », nous constatons que les entreprises nationales bénéficient particulièrement de la présence alentour d'entreprises exportatrices étrangères lorsque les pays de destination sont difficiles. Alors qu'en moyenne, cette présence une année donnée est associée à une augmentation de 10% de la probabilité que les entreprises nationales de la même province commencent à exporter l'année suivante, ce chiffre est environ 50% plus élevé lorsque le pays de destination ciblé est difficile. Ces résultats sont cohérents avec l'idée que la proximité d'exportateurs étrangers contribue à réduire les coûts fixes de la création de nouveaux liens commerciaux. Nos résultats suggèrent donc que la présence croissante d'exportateurs étrangers en Chine pourrait soutenir le processus de diversification des exportations chinoises engagé par les entreprises nationales vers des destinations plus difficiles et jusque-là inaccessibles.

RÉSUMÉ COURT

Nous cherchons à déterminer si la proximité d'exportateurs étrangers augmente la capacité des firmes chinoises à entrer sur les marchés étrangers de façon différenciée selon que ces marchés sont plus ou moins « difficiles ». Nous définissons la difficulté d'accès des marchés à partir de plusieurs indicateurs. Nous observons que la proximité d'entreprises exportatrices étrangères aide particulièrement les entreprises nationales à commencer à exporter lorsque les pays de destination sont difficiles. En moyenne, la proximité d'exportateurs étrangers une année donnée est associée une augmentation de 10% de la probabilité que les entreprises nationales de la même province commencent à exporter l'année d'après; lorsque le pays de destination ciblé est identifié comme difficile, ce chiffre est environ 50% plus élevé. Ces résultats sont cohérents avec l'idée que la proximité d'exportateurs étrangers contribue à réduire les coûts fixes de la création de nouveaux liens commerciaux. Nos résultats suggèrent que la présence croissante d'exportateurs étrangers en Chine pourrait soutenir le processus de diversification des exportations vers des destinations plus difficiles engagé par les entreprises nationales.

Classification JEL : F1, R 12

Mots-clefs : Externalités à l'export, Chine, agglomération

**ENTRY ON DIFFICULT EXPORT MARKETS BY CHINESE DOMESTIC FIRMS:
THE ROLE OF FOREIGN EXPORT SPILLOVERS**

Florian Mayneris* & Sandra Poncet**

1. INTRODUCTION

Recent studies have focused on the role of foreign firms in the surge of Chinese exports over the past 20 years. From a pure quantitative point of view, the analysis of Chinese statistical yearbooks shows that the share of foreign firms in total Chinese exports has grown to 57% in 2007. From a more qualitative perspective, it is clear that Chinese exports have upgraded in the past few years. Rodrik (2006) finds that the sophistication of Chinese exports is disproportionately high, three times higher actually than the level predicted by Chinese average income per capita. Schott (2008) shows that the overlap between Chinese exports and exports from OECD countries is high and growing over time. A consensus has emerged on the fact that foreign firms played an important part in this evolution. Amiti and Freund (2010) show for example that once processing trade is excluded, the skill content of Chinese exports remains unchanged. Since processing trade activities are mainly conducted by foreign firms, this suggests that no upgrading occurs for domestic exports. Xu and Lu (2009) show that FDI has a positive impact on Chinese export upgrading when it emanates from fully foreign-owned firms from OECD. They also find export sophistication within an industry to be positively related to the share of processing trade realized by foreign firms, and negatively related to the share of processing exports realized by domestic firms.

These results suggest that foreign firms account for most of the quantitative and qualitative growth of Chinese exports. However, they might also exert an indirect impact on domestic ones through export spillovers. Very few theoretical studies exist on export spillovers. Krautheim (2010) builds a model in which the fixed export cost decreases in the number of firms already exporting to a given destination. The rationale for this assumption is information spillovers or cost mutualization. Exporting firms might diffuse specific information on foreign consumers' tastes or on export administrative procedures that might help domestic firms located in the same neighborhood to enter on export markets. Exporting firms might also mutualize some costs linked to the participation to international fares or to the transport of their commodities, which will reduce the individual cost to conquer new markets. However, conflicting results exist in the empirical literature on the topic: Aitken et al. (1997) find a positive impact of export activities conducted by multinationals on the export status of Mexican domestic firms. Kneller and Pisu (2007) confirm this result on UK data. Evidence is much less clear for Barrios et al. (2003) on Spanish firms, while Ruane and

* Université catholique de Louvain, IRES, CORE. Email: florian.mayneris@uclouvain.be

** Paris School of Economics, Université Paris 1 and CEPII. Email: sandra.poncet@univ-paris1.fr

Sutherland (2005) find a negative impact of foreign exports on entry of Irish domestic firms on export markets.

Recent studies are more encouraging for the specific case of China. Swenson (2008) finds a positive impact of foreign exports on the creation of new trade linkages by Chinese domestic firms, and Chen and Swenson (2010) show that foreign exports increase the unit value and the durability of new transactions created by domestic firms. Mayneris and Poncet (2011) investigate the nature and the specificity of these spillovers. They show that foreign export spillovers are product and destination specific: the probability that Chinese domestic firms start exporting a given product to a given country responds positively to the presence of foreign firms in the same province exporting, the year before, the same product to the same country. Foreign export activities considered at a more general level (same product/other countries, other countries/same product or other products/other countries) are much weaker or insignificant.¹ They moreover find that these export spillovers derive mainly from ordinary trade activities. Finally, they show that export spillovers are stronger for more sophisticated products, suggesting an indirect impact of foreign firms on sophistication upgrading of Chinese domestic exports.

In this paper, we strongly build on Mayneris and Poncet (2011) to explore another dimension of foreign export spillovers in China. We investigate the possible heterogeneity of export spillovers depending on the difficulty of entry on foreign markets. All destination countries are not equally easy to enter on. In particular, administrative documents to fill in, corruption, political or economic uncertainty, might necessitate more specific knowledge from potential exporters; this will increase the fixed export cost. Crozet et al. (2008) develop for example a theoretical model in which insecurity on foreign markets acts as an unforeseeable additional sunk cost, which disrupts the usual selection of firms on foreign markets based on productivity. Araujo et al. (2011) investigate the role of institutional quality of the destination markets on firm-level export dynamics. In their model, firms learn from their own experience on destination markets, this learning effect being more important for more difficult countries. As a consequence, firms start exporting smaller quantities on risky markets, and conditioning on survival, the growth of firm-level exports decreases with the quality of institutions in the destination country.

Preliminary statistics on the geographic presence of Chinese domestic firms stress the improvement of their capacity to reach difficult destinations. Between 1998 and 2007, the share of domestic export flows to the top decile countries in terms of average time required to import as measured by the World Bank doing business database² rose from 8.5 to 12.3%. When focusing on domestic export starts, the share is not only higher but also increasing faster as it jumped from 11.3 to 17.9%, attesting to the enhanced capacity of Chinese domestic firms to penetrate difficult markets over the past years. One can wonder whether the

¹ Koenig et al. (2010a) obtain a similar result on export spillovers in France, even though in this latter case the authors do not distinguish between foreign and domestic firms.

² While the average world duration is 27 days, at least 44 days is required to clear the customs in the top decile countries. See section 2.1 for more details on this indicator.

increasing presence of multinational firms appears to influence this evolution in the orientation of China's integration with the world economy.

If we think of institutional quality or administrative duties as a fixed export cost, the marginal impact of export spillovers might be more important for more difficult countries. The diffusion of specific information will be more valuable in this case. Koenig et al. (2010b) investigate this issue on French firm-level data. They show that the probability of entry on a given market is positively impacted by the number of surrounding firms exporting the same product to the same country, especially for more difficult destinations. In this paper, we follow the same kind of analysis. We use data on Chinese exports by province, product, destination country and type of firms (foreign or domestic firms). We merge these data with indicators taken from the International Country Risk Guide and from the Doing Business database edited by the World Bank. These indicators are informative on institutional quality and toughness of administrative procedures linked to imports in a given destination country. We are then able to investigate whether the impact of export spillovers on the probability that Chinese domestic firms start exporting a given product to a given country depends on the difficulty of entry on the considered export market. We actually find that foreign export spillovers are more important for more difficult markets, pointing at a possible role of foreign firms in the geographic diversification of Chinese domestic exports toward more risky markets.

We present the data we use and our empirical methodology in section 2. Section 3 discusses our results and section 4 concludes.

2. DATA AND EMPIRICAL STRATEGY

We focus our analysis on the impact of exposure to foreign exporters on the extensive margin of trade of domestic firms. In line with Koenig et al. (2010a and 2010b) and Mayneris and Poncet (2011), we explain why domestic firms from province i export product k to country j at time $t+1$, while they did not at time t . To do so, we use a gravity framework applied to the decision to start exporting. We restrict our analysis to ordinary trade activities, both for the dependent and the spillover variables, since Mayneris and Poncet (2011) have shown that foreign export spillovers in China are mainly limited to this sphere of export activities.

2.1 DATA

We use customs data on Chinese exports by province, HS6 product, destination country and type of exporting firms (domestic and foreign³) for the period 1997-2007. We re-aggregate the data in terms of product activity at the HS4 level, which is a fairly detailed level. For

³ The data are separately reported by firm type, including foreign-owned enterprises, equity joint ventures and Sino-foreign joint ventures, collective enterprises, private enterprises and state-owned enterprises. We consider the first three categories as foreign and the three later as domestic.

example, the HS2 product category “clocks and watches and parts thereof” comprises 14 different 4-digit products, from wrist-watches in precious metal to time registers, passing by wrist-watches in base metal.

Thanks to this information, we can build a database recording all domestic entries on foreign export markets at the province-product-destination country level. Our dependent variable takes the value 1 if domestic firms from a given province export a given product to a given country in $t+1$, while they did not in t . For a specific province, we consider as potential alternatives all product-country pairs for which we observe at least one positive export flow over the period. We focus on export starts and consequently eliminate from the sample observations corresponding to continuing and ceasing export flows. Since we have 10 years of observations, we can observe, over the period, multiple domestic starts for the same province-product-destination country triad. For example, the following sequence 00011001111 becomes in our sample .001..01..., “.” denoting missing values. In the end, only triads with at least one export start remain in the sample. The estimation sample covers 220 countries and 1213 HS4 products.

Regarding data on institutional quality and on toughness of import procedures in destination countries, we use two databases. The first one is the International Risk Country Guide dataset (ICRG), edited since 1980 by an independent American institute, the PRS group. A composite index is computed, based on three sub-indices, measuring respectively the political, the economic and the financial risks of a country. The second data source is the Doing Business database elaborated by the World Bank. Several variables related to country-level regulations of economic activities are recorded in this database. We use in our empirical work two of them, the number of documents and the number of days that are needed to import in a given country the commodities transported by a standard cargo. The number of documents is calculated from the signature of the contract to the delivery of goods, while the time needed is calculated from the arrival of the cargo in the harbor. Both variables appear as good proxies for the toughness of procedures an exporter has to face to sell its goods to a given foreign country.

2.2 ESTIMATED EQUATION

We estimate a gravity equation on the decision to start exporting. More precisely, we assume that the probability that domestic firms from province i start exporting product k to country j at time $t+1$ can be written as follows:

$$\text{Prob}(\text{domestic start}_{ikjt+1}) = \text{Prob}(\alpha \text{foreign spill}_{ikjt} + \beta_1 Z_t + \beta_2 Z_{t-1} + \eta_{ikj} + \mu_t + \varepsilon_{ikjt+1} > 0) \quad (1)$$

where $\text{foreign spill}_{ikjt}$ is a proxy for foreign export spillovers, Z is a bunch of time-varying controls specific to destination country j and/or to province i from which the export flow emanates, η_{ikj} is a province-product-destination country fixed effects and μ_t is a year fixed effect. We estimate the determinants of this probability thanks to a conditional logit estimation. Given the presence of province-product-destination country fixed effects, the impact of our explanatory variables is estimated in the time dimension. We test the

heterogeneity of export spillovers depending on the difficulty of entry on export markets by splitting the sample into groups of countries, using as a threshold the mean of different country-specific measures of institutional quality and toughness of import procedures. We show that results also hold when using interaction terms.

Several remarks follow about the implications of our estimation strategy. We use a logit estimation with province-product-destination country fixed effects. From a technical point of view, this implies that triads for which we observe positive export flows, or on the opposite null export flows, all over the period, cannot participate to the estimation. In this case, the fixed effect would perfectly predict the outcome. This legitimates *ex-post* the limitation of our sample to triads for which we observe at least one export start over the period.

From a more conceptual point of view, the use of such fixed effects means that what we really explain is the timing of entry. We relate the year of entry of domestic firms on specific export markets to the presence of foreign firms exporting the same product to the same country the year before. If such an issue can be apprehended through a continuous time duration model, we still prefer using a discrete time model. According to Hess and Persson (2010, 2011) continuous-time methods perform poorly with large annual trade datasets with many short-lived trade relationships such as ours. Because our sample is at the product and destination country level, it contains a lot of entries and exits of domestic firms on export markets. Discrete-time specifications with adequate controls are preferable in this case. This is why we use a logit estimation with triadic (province-product-destination country) fixed effects.

This estimation strategy implies that our effects are estimated in the time dimension only. We thus capture short run determinants of the entry of domestic firms on export markets. The fact that we observe, for a given product and a given destination country, a lot of variations over the period in the export status of domestic firms suggests the existence of such short run determinants of entry. It is true that the nature of spillovers could be different in the short and in the long run: foreign firms might facilitate the entry of domestic firms but could make, due to competition effects, their trade relationships less durable. However, it does not seem to be the case in China: Mayneris and Poncet (2011) show that their assessment of foreign export spillovers holds when they consider durable starts only⁴, while Chen and Swenson (2009) find that the presence of foreign exports increases the durability of new export transactions created by domestic firms.

2.3 SPILLOVER VARIABLES

Export spillovers have often been studied at a quite aggregated level. Swenson (2008) and Chen and Swenson (2010) explore foreign export spillovers within a given HS2 category. They thus consider less than one hundred sectors of activities. We think it is worth investigating export spillovers at a finer level in terms of product nomenclature. Many export

⁴ Defined as exports for at least two consecutive years.

regulations are actually defined at a very fine level in terms of product, and it is likely that specific tastes of foreign consumers also vary at a detailed level of product. In the same vein, the destination-country dimension has generally been overlooked, often because of the lack of data, while many trade impediments or many peculiarities in consumers' demand are specific to the destination country.

Koenig et al. (2010) confirm the interest of this detailed assessment of export spillovers. They show, on French firm-level data, that export spillovers are much stronger when product and destination specific. What matters for domestic starts is being surrounded by firms exporting the same product to the same country. Mayneris and Poncet (2011) find the same result for foreign export spillovers in China: The probability that Chinese domestic firms start exporting product k to country j is positively related to the presence in the same province of foreign firms exporting the same product k to the same country j the year before. We thus focus here on the product and destination country specific spillover.

Another issue is related to the way we measure foreign export activities. Less than 10% of domestic starts in our estimation sample are associated to the presence, the year before, of positive foreign exports for the same product and same country. Using the value of foreign exports only as a proxy for spillovers would be problematic for the interpretation of our results: Are export spillovers linked to the intensity of foreign exports, or to the mere presence of foreign exporters in the province? As in Mayneris and Poncet (2011), we deal with this issue by introducing both a dummy equal to 1 in case of positive exports and the value of foreign exports.

2.4 TIME-INVARIANT AND TIME VARYING CONTROL VARIABLES

Many other determinants can explain why we observe exports of product k to country j by both foreign and domestic firms from the same province i . Some of them are time invariant and province specific: Provinces with better infrastructure or more educated workforce might attract FDI and facilitate exports, whatever the nationality of the firm. Some others are also time invariant but province and destination country specific: Some provinces might have, for example, specific relationships with particular countries, due to migrants' networks, geographic contiguity or history. These bilateral characteristics ij can explain why we observe exports to country j from both foreign and domestic firms located in province i . Third, there might exist time-invariant province and product specific determinants of export performance: Province i might have developed a specific know-how for product k , which could explain the good export performance of both foreign and domestic firms producing product k in that location. All these time invariant determinants are controlled for by the triadic (province-product-destination country) fixed effect ikj we finally introduce in our regression.

Our estimations also account for time-varying determining elements of domestic and foreign firms' exports activities. For example, comparative advantages of provinces might have changed over the fast growing period 1997-2007. We consequently introduce total exports of product k by province i , total exports of province i and total Chinese exports of product k at

time t . Since we control for time fixed effects, total Chinese exports are also controlled for, so that all the elements of a Balassa index of “revealed comparative advantage” at the province-product level are taken into account. We also include the bilateral export values to country j for China and for province i to control for the possible changes in bilateral commercial relationships over the period. We finally introduce the GDP per capita of province i to account for supply side determinants of exports. The evolution of demand in the destination country must also be taken into account. We consequently introduce total world imports of product k by country j in year t , taken from the BACI database⁵, and destination country GDP per capita.⁶

The value in $t-1$ of provincial and Chinese exports and of destination country imports is also introduced, to control for specific dynamics in local comparative advantages and demand.

Last, we want to be sure that foreign exports do not proxy for domestic firms’ own experience on export markets. It could be the case that positive foreign export flows of product k to country j are more often observed in provinces where domestic firms also export product k or export to country j at time t . Foreign exports would in this case partly capture spillovers among domestic firms, or scope economies in domestic export activities. We thus introduce domestic exports of product k (to countries other than j by definition since we focus on domestic starts) and domestic exports to country j (of products other than k) at time t .

3. RESULTS

We first replicate the results on the assessment of foreign export spillovers in China obtained by Mayneris and Poncet (2011). We then investigate several dimensions along which foreign export spillovers might vary depending on destination countries. All regressions are clustered at the province level (Moulton, 1990). To split the whole sample, we use as a threshold the mean of the variable used to measure access difficulty of the destination country. Results generally hold when using the median.⁷

3.1 PRODUCT AND DESTINATION SPECIFIC FOREIGN EXPORT SPILLOVERS

We focus on domestic ordinary trade (ODT) export starts, Chinese domestic firms mainly adopting this channel to enter on export markets. Moreover, foreign export spillovers are found to mainly apply to domestic ordinary trade activities (Mayneris and Poncet, 2011). Results presented in the first column of Table 1 clearly show that foreign export spillovers exist in China, and that they are product and destination specific. The mere presence in province i of foreign firms exporting product k to country j , increases the probability that domestic firms from the same province start exporting product k to country j the year after by

5 This dataset, which is constructed using COMTRADE original data, provides bilateral trade flows at the 6-digit product level (Gaulier and Zignago, 2010). BACI is downloadable from <http://www.cepii.fr/anglaisgraph/bdd/baci.htm>.

6 World countries real GDP per capita in PPP are taken from the World Development Indicators database (World Bank).

7 These results are available upon request from the authors.

10.96%⁸, i.e. by 2.40 percentage point. A 10% increase in the value of foreign exports of product k to country j increases this same probability by 0.10%⁹, i.e. by 0.02 percentage point. The impact of other foreign export activities is insignificant, or very small in magnitude (for foreign exports of product k to countries other than j).

We then distinguish in column (2) ODT foreign exports from processing trade (PCS) foreign exports. Both the presence and the value of ODT foreign exports of product k to country j at time t have a positive and significant impact on the probability that Chinese domestic firms start exporting product k to country j in $t+1$. For PCS trade, the value of foreign exports has no significant impact while the dummy accounting for the presence of foreign exporters is only weakly significant. Again, foreign exports that are not product and destination specific are either insignificant or very small in magnitude, for both ODT and PCS activities.

These results suggest that foreign export spillovers mainly derive from ODT foreign exports, and that they are product and destination country specific. We hence focus in the remaining of this study on product and destination specific foreign export spillovers from ODT to ODT export activities.

3.2 FOREIGN EXPORT SPILLOVERS AND GDP PER CAPITA OF THE DESTINATION COUNTRY

We first investigate the potential heterogeneity of foreign export spillovers depending on the destination country GDP per capita. Since rich countries have better institutions than poor countries on average, they might be easier targets for Chinese domestic firms. Moreover, rich countries import more varieties than poor countries (Hummels and Klenow, 2002), which could make them more accessible for Chinese domestic firms. In this particular case, the specific information that surrounding foreign exporters could provide would be less valuable for prospective domestic exporters. Overall, foreign export spillovers might be less important for these destination countries. This conjecture is confirmed by results presented in Table 2. In this table, we run separate regressions for low and high GDP per capita destination countries. A country is considered high GDP per capita if its GDP per capita is higher than 9,059 US dollars (the mean value for our sample) otherwise it is classified as a low-GDP per capita country. The comparison of columns 2 and 3 shows that the impact of foreign export spillovers (measured by the presence of surrounding foreign exporters) is significantly different between these two groups. The mere presence of foreign exports of product k to country j has a positive and significant impact on domestic starts only for countries which GDP per capita is below the average. Hence, when the destination country is poor, the presence of foreign firms increases the probability of a domestic start by around 13.2% (i.e.

8 Given the form of the logistic function, the increase in probability generated by the sole presence of foreign firms exporting product k to country j is equal to $[e^{0.104} - 1]$ %. The increase expressed in percentage point of probability is found by multiplying by this expression by the probability of starting to export at the point at which the marginal impact is estimated.

9 If we consider a reference value x_i for variable x , the increase in probability generated by a 10% increase in x is equal to $(1.1\beta x - 1)$, βx being the coefficient on x . The increase expressed in percentage point of probability is equal to $(1.1\beta x - 1)P_{xi}$.

by 2.88 percentage point). No strong differences emerge regarding the impact of the value of foreign exports. As shown in the last column, the result is confirmed when we interact the dummy identifying countries with a GDP per capita above the average with the spillover variable: the coefficient on the interaction term is negative and significant. This last column is obtained thanks to a linear probability model, in order to interpret the coefficients as marginal impacts directly.

However, it is difficult to figure out what is really at play with this heterogeneity of foreign export spillovers depending on GDP per capita. We use ICRG and Doing Business indexes to go further into this question.

3.3 FOREIGN EXPORT SPILLOVERS AND INSTITUTIONAL QUALITY OF THE DESTINATION COUNTRY

One novel contribution of our paper is to investigate the possibility that the relationship between foreign export spillovers and domestic creation of new trade linkages depends on destination countries' institutional quality.

We use the ICRG composite index, which is a weighted average of the political, financial and economic risks indexes (which respective weights are 50%, 25% and 25%) calculated by the PRS group. The higher this index, the less risky the countries. The entry on risky markets being more difficult, we expect foreign export spillovers to be stronger for those destination countries. This is exactly what we observe in Table 3.

In Table 3, the regressions are run separately for countries with a low/high ICRG composite (defined as being below/above the sample average of 70) in column 2 and 3 respectively. The presence of foreign firms exporting product k to country j at time t is positively associated with a rise in the probability that domestic firms start exporting the same product to the same country in $t+1$ for countries with a low ICRG composite index only, i.e. for more risky markets. We can compute that the mere presence of foreign exporters increases the probability of a domestic start the year after by 15.1% (3.32 percentage point) when considering countries with a low value of the ICRG index, while a 10% increase in the value of these exports raises this same probability by 0.11% (0.02 percentage point). For less risky market, no significant impact of foreign presence is detected, while a 10% increase of the value of foreign exports of product k to country j increases the probability of domestic starts by 0.16% (0.04 percentage point). The difference between both samples in terms of "intensive margin" of spillovers is thus negligible. Again, results are qualitatively similar when capturing heterogeneity through an interaction term (column 4). These results suggest that domestic exporters penetrating countries with poor institutional quality are likely to benefit differentially from multinational firm exposure because they are confronted to greater risks and informational asymmetries. Hence, our findings support the hypothesis that proximity to foreign exporters reduces informational barriers to trade.

3.4 FOREIGN EXPORT SPILLOVERS AND IMPORT PROCEDURES IN THE DESTINATION COUNTRY

Finally, we study another dimension of the difficulty of entry on a given market, using two measures of the restrictive effect of administrative procedures imposed by countries on their imports: the number of documents needed between the signature of the contract and the delivery of the goods, and the number of days between the arrival of commodities in the harbor and their delivery. The higher the values of these two variables, the more difficult the entry in the destination country.

Results presented in Table 4 indicate that the presence in the province of foreign exports of product k to country j increases the probability that domestic firms start exporting k to j by 10.63% (2.41 percentage point) when the number of documents required by the destination country is high, and by 13.66% (2.84 percentage point) when the number of days between the arrival in the harbor and the delivery of the commodities is high.

No significant impact of foreign exporter presence is detected when administrative procedures in the destination country are lighter. The impact of the value of foreign exports is not significantly different across countries. Results are qualitatively the same when measuring heterogeneity thanks to an interactive term.

4. CONCLUSION

In this study, we explore how the intensity of foreign export spillovers in China varies depending on the difficulty of entry on export markets. This allows to shed light on the way the increasing presence of multinational firms influences the orientation of Chinese domestic firms' integration with the world economy. Several studies show that the presence of foreign firms in Chinese provinces and cities positively impacts on the entry of domestic firms on export markets. If the externality provided by the exposure to foreign exporters partially acts through information spillovers, hence helping the prospective domestic exporter to reduce the fixed cost of creating new trade linkages, we expect the effect to be particularly important for more difficult countries. This is what we find, using different proxies to define what a "difficult" country is. Our results indicate that the presence of surrounding foreign exporting firms help domestic ones to start exporting, especially when destination countries are risky, as measured by the ICRG index, or when they impose tough administrative procedures for the import of commodities. This suggests that the increasing presence of foreign exporting firms in China might contribute to the diversification of domestic firms' exports toward more difficult and previously inaccessible destinations. While on average exposure to foreign exporters is associated with a 10% increase in the probability that domestic firms start exporting the next year, the figure is around 50% higher when the targeted destination country is identified as difficult. This does not however mean that Chinese domestic firms export to easier markets than their foreign counterparts and that the gap between the two types of firms decreases over time thanks to foreign export spillovers. By contrast Chinese domestic firms

actually export on average to more risky markets, or to countries where the administrative procedures imposed on imports are (by roughly 10%) tougher compared to foreign exporters located in China. Nevertheless, our results show that when domestic firms in a province do not export yet a given product to a given country, the beneficial effect of exposure to foreign exporters on the probability that Chinese domestic firms start exporting this product to this new destination is stronger the more the entry on this market is difficult.

Table 1: Nature of foreign export spillovers

Explained variable: Domestic ODT new export link in t+1	Specifications	
	(1)	(2)
Same product/country Foreign export	0.011** (0.004)	
0/1 same product/country Foreign export	0.104*** (0.042)	
Other country/same product Foreign export	0.003** (0.002)	
Same country/Other products Foreign export	-0.0001 (0.003)	
Other country/product Foreign export	-0.288 (0.209)	
Same product/country ODT Foreign export		0.017*** (0.003)
0/1 same product/country ODT Foreign export		0.062** (0.027)
Other country/same product ODT Foreign export		0.009** (0.002)
Same country/Other product ODT Foreign export		0.003 (0.002)
Other country/product ODT Foreign export		0.082 (0.110)
Same product/country PCS Foreign export		0.002 (0.007)
0/1 same product/country PCS Foreign export		0.098* (0.056)
Other country/same product PCS Foreign export		0.004** (0.002)
Same country/other product PCS Foreign export		-0.002 (0.002)
Other country/product PCS Foreign export		-0.007 (0.068)
Controls for domestic own experience on export markets		Yes
Controls for demand (country-product imports and country GDP per capita)		Yes
Controls for Macro export (Balassa, bilateral exports of China and of province, province GDP per capita)		Yes
Control for demand and macro export lags		Yes
Observations		4161535
R-squared	0.125	0.125
Share of domestic starts	0.219	0.219
Province-product-destination country fixed effects		Yes
Year fixed effects		Yes

Heteroskedasticity-robust standard errors are reported in parentheses. Standard errors are clustered at the province level. ***, ** and * indicate significance at the 1%, 5% and 10% confidence level. Conditional logit estimations in all columns.

Table 2: Export spillovers and destination country GDP per capita

Explained variable: Domestic ODT new export link in t+1	Heterogeneity indicator			
	Destination country GDP per capita			
	≠	≤ Mean	> Mean	Interaction
	(1)	(2)	(3)	(4)
Same product/country ODT Foreign export	0.015*** (0.003)	0.015*** (0.005)	0.015*** (0.005)	0.005*** (0.001)
Same product/country ODT Foreign export * Above Threshold dummy				-0.001 (0.001)
0/1 same product/country ODT Foreign export	0.079*** (0.028)	0.124*** (0.043)	0.036 (0.040)	0.033*** (0.008)
0/1 same product/country ODT Foreign export * Above Threshold dummy				-0.025** (0.009)
Other country/same product ODT Foreign export	0.008*** (0.002)	0.007*** (0.002)	0.008*** (0.002)	0.001*** (0.0004)
Same country/other product ODT Foreign export	0.002 (0.002)	-0.001 (0.002)	0.006 (0.005)	-0.0004*** (0.00008)
Other country/product ODT Foreign export	0.084 (0.107)	0.108 (0.117)	0.047 (0.100)	0.017*** (0.001)
Controls for domestic own experience on export markets	Yes			
Controls for demand	Yes			
Controls for Macro export	Yes			
Control for demand and macro export lags	Yes			
Observations	4161535	2350003	1311532	4161535
R-squared	0.125	0.139	0.097	0.087
Share of domestic starts	0.217	0.209	0.235	0.217
Province-product-destination country fixed effects	Yes			
Year fixed effects	Yes			

*Heteroskedasticity-robust standard errors are reported in parentheses. Standard errors are clustered at the province level. ***, ** and * indicate significance at the 1%, 5% and 10% confidence level. Conditional logit estimations in all columns but the last column where a linear probability model is used.*

Table 3: Export spillovers and destination country institutional quality

Explained variable: Domestic ODT new export link in t+1	Heterogeneity indicator			
	Destination country ICRG composite index			
	≠	≤ Mean	> Mean	Interaction
	(1)	(2)	(3)	(4)
Same product/country ODT Foreign export	0.015*** (0.003)	0.012** (0.006)	0.017*** (0.005)	0.004*** (0.001)
Same product/country ODT Foreign export * Above Threshold dummy				0.001 (0.001)
0/1 same product/country ODT Foreign export	0.068** (0.029)	0.141*** (0.045)	0.037 (0.038)	0.039*** (0.009)
0/1 same product/country ODT Foreign export * Above Threshold dummy				-0.003*** (0.001)
Othe country/same product ODT Foreign export	0.007*** (0.002)	0.006*** (0.002)	0.008*** (0.002)	0.0009*** (0.00007)
Same country/other product ODT Foreign export	0.002 (0.003)	-0.002 (0.003)	0.003 (0.004)	-0.0004*** (0.00009)
Other country/product ODT Foreign export	0.095 (0.108)	0.094 (0.123)	0.091 (0.101)	0.019*** (0.001)
Controls for domestic own experience on export markets	Yes			
Controls for demand	Yes			
Controls for Macro export	Yes			
Control for demand and macro export lags	Yes			
Observations	3850193	1904098	1946095	3850193
R-squared	0.126	0.145	0.108	0.083
Share of domestic starts	0.219	0.210	0.228	0.219
Province-product-destination country fixed effects	Yes			
Year fixed effects	Yes			

*Heteroskedasticity-robust standard errors are reported in parentheses. Standard errors are clustered at the province level. ***, ** and * indicate significance at the 1%, 5% and 10% confidence level. Conditional logit estimations in all columns but the last column where a linear probability model is used.*

Table 4: Export spillovers and destination country administrative procedures

Explained variable: Domestic ODT new export link in t+1	Heterogeneity indicator						
	Nb of documents				Nb of days		
	≠.	≤ Mean	> Mean	Interaction	≤ Mean	> Mean	Interaction
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
Same product/country ODT Foreign export	0.016*** (0.003)	0.016*** (0.005)	0.016** (0.006)	0.006*** (0.001)	0.017*** (0.005)	0.014*** (0.004)	0.006*** (0.001)
Same product/country ODT Foreign export * Above Threshold dummy				0.001 (0.001)			-0.0004 (0.001)
0/1 same product/country ODT Foreign export	0.069** (0.031)	0.052 (0.045)	0.101* (0.056)	0.008 (0.006)	0.041 (0.040)	0.128*** (0.038)	0.008 (0.006)
0/1 same product/country ODT Foreign export * Above Threshold dummy				0.019* (0.010)			0.025** (0.012)
Othe country/same product ODT Foreign export	0.008*** (0.002)	0.008*** (0.002)	0.007*** (0.002)	0.001*** (0.00007)	0.008*** (0.002)	0.007*** (0.002)	0.001*** (0.00007)
Same country/other product ODT Foreign export	0.001 (0.002)	0.001 (0.003)	0.001 (0.002)	-0.0005*** (0.00009)	0.006 (0.004)	-0.002 (0.002)	-0.001*** (0.00009)
Other country/product ODT Foreign export	0.101 (0.122)	0.069 (0.097)	0.101 (0.122)	0.018*** (0.001)	0.070 (0.097)	0.097 (0.120)	0.017*** (0.001)
Controls for domestic own experience on export markets	Yes						
Controls for demand	Yes						
Controls for Macro export	Yes						
Control for demand and macro export lags	Yes						
Observations	4041770	1747070	2294700	4041770	1743238	2298532	4041770
R-squared	0.124	0.105	0.140	0.086	0.104	0.141	0.086
Share of domestic starts	0.218	0.227	0.211	0.218	0.230	0.208	0.218

Heteroskedasticity-robust standard errors are reported in parentheses. Standard errors are clustered at the province level. ***, ** and * indicate significance at the 1%, 5% and 10% confidence level. Conditional logit estimations in all columns but the last column where a linear probability model is used.

REFERENCES CITED

Aitken B., G. Hanson and A. Harrison, 1997, “Spillovers, Foreign Investment, and Export Behavior” *Journal of International Economics* 43, 103-132.

Amiti M. and C. Freund, 2010, “An anatomy of China’s export growth”, in Robert Feenstra and Shang-Jin Wei (Eds.), *China’s Growing Role in World Trade*: University of Chicago Press.

Araujo, L., G. Mion and E. Ornelas, 2011, “Institutions and export dynamics”, Mimeo.

Barrios, S., H. Gorg and E. Strobl, 2003, “Explaining Firms’ Export Behaviour: R&D, Spillovers and the Destination Market”, *Oxford Bulletin of Economics and Statistics*, 65(4), 475-96.

Chen H. and D. Swenson, 2009, “Multinational Exposure and the Quality of New Chinese Exports”, mimeo.

Crozet, M., P. Koenig and V. Rebeyrol, 2008, “Exporting to insecure markets: A firm-level analysis”, CEPII DP 2008-13.

Gaulier G. and S. Zignago, 2010. “BACI: A World Database of International Trade at the Product level, The 1994-2007 Version”, CEPII working paper 2010-23.

Hess, W., and Persson, M., 2010, “The duration of trade revisited: Continuous-time vs discrete-time hazards”, IFN WP 829.

Hess, W., and Persson, M., 2011, “Exploring the duration of EU imports”, *Review of World Economics*. 147, 4, 665-692

Hummels, D. and P. Klenow, “The Variety and Quality of a Nation’s Exports”, *American Economic Review*, 95(3), 704-723.

Kneller R., M. Pisu, 2007, “Industrial Linkages and Export Spillovers from FDI”, *The World Economy*, 30(1), 105-134.

Koenig P., F. Mayneris and S. Poncet, 2010a, “Local export spillovers in France”, *European Economic Review*, 54, 622-641.

Koenig P., F. Mayneris and S. Poncet, 2010b, “Economies d’agglomération à l’exportation et difficulté d’accès aux marchés”, *Economie et Statistique*, 435-436, 85-103.

Krauthaim S., 2010, "Gravity and Information: Heterogenous Firms, Exporter Networks and the 'Distance Puzzle'", Mimeo.

Lu, Y., J. Ni and Z. Tao, 2010, "Hold Your Enemies Closer: In Search of Positive Impacts of Horizontal Foreign Direct Investment on Domestic Firms", Mimeo.

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Moulton, B. R., 1990, "An Illustration of a Pitfall in Estimating the Effects of Aggregate Variables on Micro Unit," *The Review of Economics and Statistics*, 72(2), 334-38.

Rodrik, D., 2006, "What Is So Special about China's Exports?" *China & World Economy*, 14(5), 1-19.

Ruane F. and J. Sutherland, 2005, "Foreign Direct Investment and Export Spillovers: How do export platforms fare?", IIS discussion paper 58.

Schott, P. K., 2008, "The Relative Sophistication of Chinese Exports," *Economic Policy*, 53, 5-49.

Swenson D., 2008, "Multinationals and the creation of Chinese trade linkages", *Canadian Journal of Economics*, 41(2), 596-618.

Xu B. and J. Lu, 2009, "Foreign Direct Investment, processing trade, and the sophistication of China's exports", *China Economic Review*, 20, 425-439.

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