

Discussion of Morlacco's Market Power in Input Markets: Theory and Evidence from French Manufacturing

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July 2019

Main questions and contributions

- Do importers have market power in their *foreign* purchases?
 - ▶ Develops theory on mark-ups and buyer power
 - ▶ Estimates output elasticities of foreign and domestic inputs
 - ▶ Calculates implied “buyer power” of French importers
- What are the welfare implications of this buyer power?
 - ▶ Adapts Hsieh and Klenow (2009) to include buyer power
 - ▶ Finds lower gains from trade due to new distortions

2 key assumptions in the paper

- 1 Domestic input market is perfectly competitive so feasible to:
 - ▶ Estimate the firm's output market mark-up as

$$\mu_{it} = \frac{\theta_{it}^m}{\alpha_{it}^m}$$

- 2 Infer input market power in country x by comparing domestic versus foreign output elasticities to their shares

$$\psi_{it}^x = \frac{\theta_{it}^x}{\theta_{it}^m} \cdot \frac{\alpha_{it}^m}{\alpha_{it}^x}$$

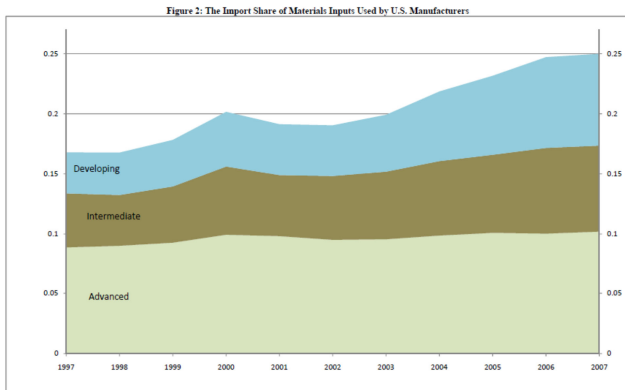
- 3 Holds firms' extensive margin sourcing decision fixed
 - ▶ No fixed costs of sourcing

Comment 1: Why do firms import?

- To lower their marginal costs
 - Amiti and Konings (2007); Gopinath and Neiman (2014); Halpern, Koren, and Szeidl (2015); Blaum, Lelarge, and Peters (2018); etc.
- To access higher quality inputs
 - Verhoogen (2008); Eslava, Fielier, and Xu (2018)
- To access new inputs
 - Goldberg, Khandelwal, Pavcnik, and Topalova (2010)
- In this paper...by assumption
 - ▶ Focuses only on firms that import from 3+ countries and export
 - ▶ Some substitutability between domestic and foreign inputs

If firms import to lower MCs → lower foreign shares

- Houseman et al. (2010) show US productivity measures are biased up due to offshoring



Source: Houseman, Kurz, Lengermann, and Mandel (2010)

- If low MC countries have higher fixed costs, implies higher pricing power for larger, more productive firms

Comment 2: Domestic shares decrease in firm size

- French importers' domestic input expenditure shares seem to be flat/decreasing in firm size

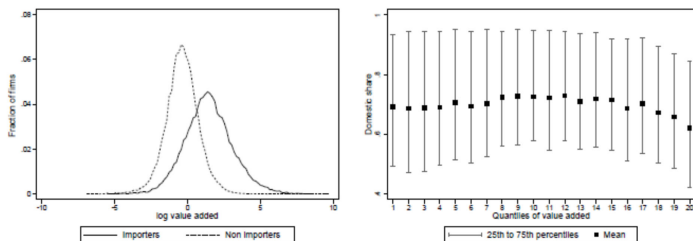


FIGURE 2. DOMESTIC SHARES AND FIRM SIZE

Source: Blaum, Lelarge, and Peters (2018)

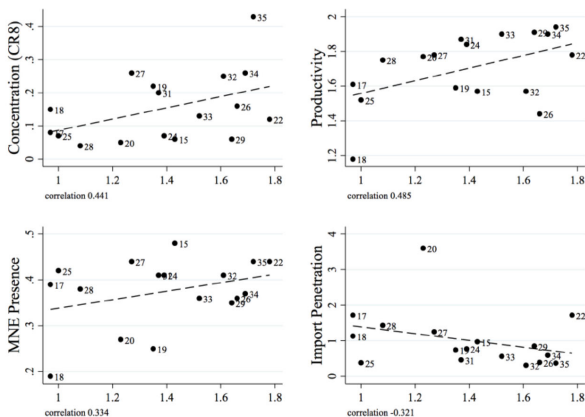
- How do firm shares differ conditional on sourcing strategies?

Comment 3: What is the source of market power?

- Firms have market power *only* in foreign markets
- My prior: Big firms have more market power in domestic markets
 - ▶ Exporters are big and sell to many domestic and foreign customers
 - ▶ Domestic suppliers are smaller on average, with fewer customers
- Bernard, Moxnes, and Ultveit-Moe (2018) find that:
 - ▶ The top 10% of Norwegian exporters to an OECD country account for 90% of exports to that country
 - ▶ Over 90% of export value is by exporters with multiple foreign customers in a country
 - ▶ Within a market, exporters that sell more have more customers
 - ▶ Median exports by customer *not* increasing in no. of customers
- Kikkawa, Magerman, and Dhyne (2019) find that suppliers' mark-ups are increasing in their average customer-specific shares
- Source crucial for understanding sources of misallocation

Some intuition on the source

FIGURE 1: BUYER POWER ACROSS SECTORS



- What does the model predict for output mark-ups?

Comment 4: Reduced-form evidence on buyer power?

- Exploit differences in market power across foreign sources?
 - ▶ Use Comtrade data to assess French market share
 - ▶ Calculate average unit values by import country
 - ▶ Are unit values negatively correlated with shares?
- Exploit differences in market power across HS products?
 - ▶ More buyer power in industries w/out persistent relationships?

Table 4: Stay Shares, Selected HS2 Industries

Panel A: Stay Shares (Weighted)

HS2	Description	Stay Share
52	Cotton	0.05
54	Man-Made Filaments (Textile)	0.08
51	Wool/Animal Hair/Yarn/Fabric	0.09
22	Beverages, Spirits and Vinegar	0.85
40	Rubber and Articles Thereof	0.87
86	Railway Locomotives/Rolling-Stock/Fixtures etc.	0.99

Source: Monarch (2018)

- ▶ Does buyer power affect relationship type (as in Heise et al. 2017)?
- Use RF evidence to identify comparison group operating under PC

Measuring misallocation: What is productivity?

- Revenue productivity (TFPR) is really profitability
 - ▶ Industry-level output price deflators
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- Physical productivity (TFPQ) closer to production efficiency
 - ▶ Usually just have output unit values
 - ▶ Still cannot observe quality
- Sometimes the distinction is irrelevant
 - ▶ TFPR and TFPQ are correlated in the data
 - ▶ Foster, Haltiwanger, Syverson (2008) show young firms have high TFPQ but low TFPR
 - ▶ Pierce (2011) finds firms that win anti-dumping cases see TFPR \uparrow , but TFPQ \downarrow
- Here, clever use of trade data to “correct” for firm-specific prices

Comment 5: Internal consistency across sections

- Adapts Hsieh and Klenow (2009) to include buyer power
 - ▶ TFPR should be equalized across firms
 - ▶ High TFPR firms should be bigger
- Uses first section estimates to quantify costs of misallocation
- But Haltiwanger, Kulick, and Syverson (2018) show that HK 2009
 - ▶ Only works under CES
 - ▶ Only works under constant returns to scale
- TFPR will differ in a world with fixed costs
 - ▶ Dispersion no longer equates misallocation
 - ▶ Seems important for modeling import behavior

Is there reduced-form evidence of mechanism?

- Model predicts firms too small when sourcing with buyer power
 - ▶ Firms substitute foreign inputs with domestic inputs
 - ▶ Generally, substitute towards no buyer power inputs
- Use panel data on extensive margin importing changes
 - ▶ Shocks to industries or countries that change firm sourcing
 - ▶ Expect a scale effect
 - ▶ Is the scale effect mitigated when firm has market power?
- Differential response of size versus productivity?
 - ▶ Model predicts TFPR increases relatively more than size
 - ▶ Evidence of this?
 - ▶ Super cool to show TFPR vs. TFPQ responses!