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#### Marco Grazzi

Associate Professor of Economics University of Bologna Dipartimento Scienze Economiche

E-mail: marco.grazzi-at-unibo.it

Office Address
Marco Grazzi
Department of Economics
Piazza Scaravilli, 2
40126 Bologna Italy
Ph: +39-051-2098130
Fax: +39-051-2098493



Publications

Working Papers

Teaching

Slides

CV-Eng

CV-Ita

Research Interests: Empirical I.O., Industrial Dynamics, International trade, Theory of the Firm

Links: My page at Ideas Repec Google Scholar

### Short Bio

- Working Experience
  - From 2015 profess. associato, Università di Bologna
  - From 2012 ricercatore TI, Università di Bologna
  - 2008-2012 ricercatore TD, Scuola Sup. Sant'Anna
  - 2007-2008 docente a contratto, Università di Bolzano
- Education
  - PhD 2006 Scuola Sup. Sant'Anna Pisa
  - 2005 Visiting Scholar, Wharton School (UPenn)
  - 2002 Laurea, Univ. di Firenze
- Visiting positions
  - Sept-Oct 2015 Visiting Professor, University of Cambridge, UK.
  - Apr 2015 Visiting Professor, University of Notre Dame, Indiana, USA.
  - Oct 2010 Oct 2011 Visiting Professor, Universita' di Pisa.
  - Jul 2007 Sep 2008 Visiting Professor, University of Bozen.
- Projects and Fundings
  - French INSEE project: trade, technology & employment dynamics (04-2016)
  - Cassa di Risparmio di Forlì (Organization of Industries, innovation and trade)
  - Participation to several EU funded projects, i.e. FINNOV, ISIGrowth
  - Ongoing Collaboration with ISTAT (J. Ec Soc Measur, 2013)

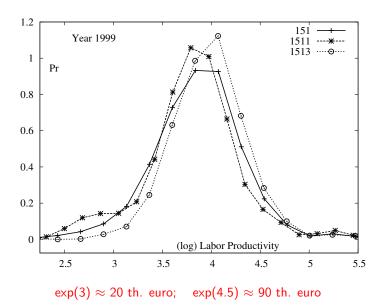
## Research and Teaching

- Fields of research
  - International Trade
  - International Trade
     Industrial Dynamics (comparative)

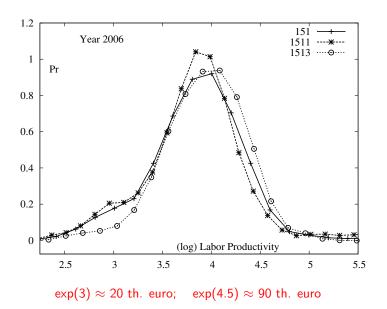
    Firm heterogeneity
  - Theory of the firm

- Bibliometrics (as of April 25th)
  - Googlescholar: 566 citations
  - ISI Web of Science: 77 citations from 12 articles
  - Scopus: 110 citations from 17 articles
- Teaching
  - In Italian: Microeconomia (UniPi, UniBo); Econ Internaz (UniBo); Econ. Industriale Avanzata (Unibo);
  - In English: Advanced Micro (UniBozen); Economics of Comp. Policy (UniBo)
  - In French: Macroeconomics and growth (Post-graduate, CEUB-UniBO)
  - PhD (in English): Consumer and Production theory, Industrial Dynamics (Sant'Anna, Pisa)

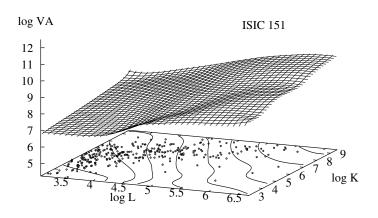
# Heterog. performances Meat Products (1999)



# Heterog. in performances is persistent (year 2006)



# Firm level heterogeneity



## Implications of firm-level heterogeneity

- Interesting in itself, provide a more informative representation
- Rethinking of the standard theories. i.e. firm-level heterogeneity and firms in international trade
- Macro: implications for the aggregate? How to evaluate gains from trade?
- Measurement issues: How to measure tech change with such widespread differences across firms?
- Lack of strong selection: what implications for "selection of the fittest hp" in industrial dynamics

### Firms in International Trade: from Micro to Macro

- Technology and costs in international competitiveness
  - Patents and investments do matter, more relevant for the intensive (volumes) than the extensive (selection) margin
  - Wages: capture more differential skills (even controlling for labour productivity).
     Overall, not a hindrance to export strategy.
  - Product innovation is more relevant than process innovation in determining firms export success (ResPol 2015)
- Different categories of firms involved in Int. Trade
  - The role of intermediaries in international trade
  - Lower per-product fixed cost
  - Export share by Interm. is larger in countries with higher market costs
  - Exports to countries with large Interm share are less reactive to a RER variation (NBER, 2011; REStat 2015)
  - Contribute to explain the incomplete ERPT puzzle
  - Higher relevance of Whol for countries with small firm bias
- Productivity sorting into export and import
  - Indirect (and direct) exporters and importers (RoWE Forthcoming)
  - Effects of ource-country characteristics on different modes of trade

## **Empirical Industrial Organization**

- Intra-industry firm heterogeneity
  - Performance of firms within narrowly defined industries is persistently different (Riv Pol Econ, 2005; ICC 2006)
  - Export activities are also related to firms' differences: Exporters are bigger, more productive, pay higher wages
  - Italian specificity: on average, growth rates of exp and non-exp are not distinguishable (J. Ind Comp Trade, 2012)
- Industrial dynamics
  - Firm Growth and productivity growth (Physica A, 2005)
  - Reallocation of market share (Small Business Econ, 2012)
  - Firm exit: Financial and economic determinants of firm default (J. of Evolutionary Economics, 2011)
- Size-wage premium (Cambridge J. Econ, 2010; Bulletin Econ Research, 2014)

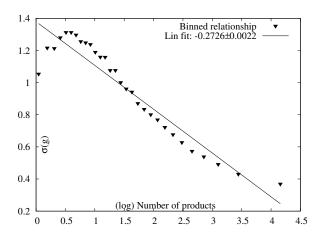
### Sources of firm level heterogeneity: theoretical and measurement issues

- Measurement issues
  - How to measure firm heterog when firms are different over several dimensions?
  - How does heterog vary over time?
  - How to measure tech. change in presence of heterog? (J. Industrial Econ, forthcoming)
- Investment in tangible assets
  - Propose a new method to identify inv. spike which corrects for size-inv. relation
  - Improvements in firm performance, but less so in Italy (Empirical Economics forthcoming)
- Underlying knowledge bases
  - Firms' performance are persistently different
  - Difference in the underlying knowledge bases is related to observed differences in performance (ICC 2006; Cambridge J Econ, 2010; CUP Chapter, 2013)
- Patterns of diversification as shaped by different bases of knowledge
  - Matching of firm-level, product-level (custom data) and patent data
  - New methodology to link the patent to relevant product(s)
  - Study coherence in diversification both in terms of patents and products (LEM WP, 2015/05)

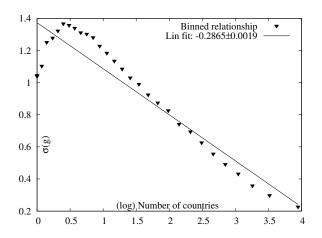
## Ongoing and future research

- Export and firm diversification (Grazzi & Moschella)
- Persistence of profits in the long run (Grazzi et al.)
- Entrepreneurship: the case of born-global firms (Grazzi & Moschella, LEM WP 2016/07)
- Coordination of a project on French firm-level data (INSEE): Commerce, technologie et dynamique d'emploi (joint with Moschella, Treibich, etal)
- Industrial dynamics and institutional change: the case of China (WP)
  - Role of institutions: State and Collective Vs Foreigh and Private
- Export and productivity sorting in developing economies (India)
  - The role of "learning" in developing countries
- Software development for the zonotope project (JIndEc article)
  - R (Open Source) and Stata (proprietary) packages

# Volatility and product diversification: binned relationship



# Volatility and country diversification: binned relationship



### Terza Missione

- Articles on non-scientific journals
  - Dictionary-Encyclopedia
  - ItalianiEuropei
- Non-academic invited talks
  - Notre Dame University
  - Sant'Anna Science Cafe'
  - Camaldoli
  - Summer School of "school of Excellence network" (Normale, Sant'Anna)"
- Business Angel activities, joint with other Sant'Anna Alumni

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