

Marie Le Mouel

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Research Interests

Firm productivity • Productivity dispersion • Knowledge spillovers • Knowledge-based capital

Education

- 2013-Present **PHD in Economics**
DIW Berlin & Technical University Berlin, Germany
Thesis: Firm Productivity and Organisational Capital
Supervisors: Prof. Tomaso Duso & Prof. Alexandra Spitz-Oener
- 2009-2011 **MASTER in Economics and Public Policy - CUM LAUDE**
Sciences Po Paris, Ecole Polytechnique, ENSAE, Paris, France
Thesis: The impact of social networks on the productivity of open source programmers
Supervisors: Prof. Emeric Henry & Prof. Yann Algan
- 2006-2009 **BA in Philosophy, Politics and Economics - FIRST CLASS HONOURS**
Christ Church, Oxford University, U.K.

Affiliations

OECD Science, Technology and Innovation Directorate, *Paris, France*
Research Institute of the Finnish Economy (ETLA), *Helsinki, Finland*

Publications

WORKING PAPERS

“Cross-Country Estimates of Employment and Investment in Organisational Capital: A Task-Based Methodology Using the PIAAC Database”, (2015) *OECD STI Working Papers*, with M. Squicciarini

“Defining and Measuring Investment in Organisational Capital”, (2012) *OECD STI Working Papers*, with M. Squicciarini

BOOK CHAPTERS

OECD (2013), “Measuring knowledge-based capital”, in *Supporting Investment in Knowledge Capital, Growth and Innovation*, OECD Publishing, Paris.

NON-ACADEMIC PUBLICATIONS

“Knowledge-Based Capital in Germany: Analysis of the productivity and growth effects and introduction of an indicator system”, (2017), study commissioned by the Federal Ministry of Economics and Energy, with H. Belitz, A. Eickelpasch and A. Schiersch.

OECD (2015), *OECD Science, Technology and Industry Scoreboard 2015: Innovation for growth and society*, OECD Publishing, Paris.

OECD (2013), *OECD Science, Technology and Industry Scoreboard 2013: Innovation for Growth*, OECD Publishing, Paris.

Conferences & Seminars

2017	European Association for Research in Industrial Economics, Maastricht, Netherland LEED Workshop, Coimbra, Portugal
2016	Seminar of the Cluster of Industrial Economics, DIW Berlin Graduate Center Summer workshop, Berlin, Germany
2015	European Workshop on Efficiency and Productivity Analysis, Helsinki, Finland SPINTAN Mid-term conference, London, UK Graduate Center Summer workshop, Berlin, Germany Working Party for Industry Analysis, OECD, Paris, France
2014	International Review of Income and Wealth Conference, Rotterdam, Netherlands Seminar of the Cluster of Industrial Economics, DIW Berlin Working Party for Industry Analysis, OECD, Paris, France

Summer school

July 2017	Research on Productivity, Trade, and Growth: Theory and Practice <i>Tinbergen Institute, Amsterdam, Netherlands</i>
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Teaching

Sept-Dec 2017	Introduction to Statistics, Master of Public Policy,
Sept-Dec 2016	<i>Hertie School of Governance, Berlin, Germany</i>

Non-academic experience

2011-2013	Economist , Science, Technology & Innovation (STI) Directorate, OECD, Paris, France <ul style="list-style-type: none">• Analyst in project “New Sources of Growth” - measurement of Knowledge-Based Capital• Production of Indicators for STI Scoreboard (2013, 2015)
2010-2011	Intern , Ministry of Economics, Paris, France <ul style="list-style-type: none">• Evaluation of French R&D tax credit• Benchmark of European state aids to innovation
Summer 2010	Intern , French Embassy, Santiago, Chile <ul style="list-style-type: none">• Analysis of the Chilean pension system
Summer 2009	Intern , Health and Safety Executive, Liverpool, UK <ul style="list-style-type: none">• Econometric analysis of the prevalence of presenteeism
Summer 2008	Intern , RBB Economics, London, UK <ul style="list-style-type: none">• Evaluation of a merger case and abuse of dominant position case

Extra-curricular & Skills

EXTRA-CURRICULAR

2016-ongoing	Coordinator of the Seminar of the Cluster of Industrial Economics, DIW Berlin
2016-ongoing	Member of graduate student selection committee, Graduate Center, DIW Berlin
2015 to 2017	Student representative, Graduate Center, DIW Berlin
2010-2013	Co-founder and Vice-President, Open Diplomacy, Paris, France
Summer 2011	English Teacher & coach, JHC Summer Program, Jinju, South Korea
2007-2009	Volunteer teacher, Oxford University outreach program, UK

IT SKILLS

Stata, R, Matlab, Pajek, L^AT_EX

LANGUAGE SKILLS

French (Native), English (Fluent), Spanish (Intermediate), German (Intermediate)

References

Prof. Tomaso Duso
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Prof. Alexandra Spitz-Oener
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Current Projects

Managerial knowledge spillovers and firm productivity - JOB MARKET PAPER

Abstract The present paper brings together empirical findings suggesting, on the one hand, that heterogeneity in managerial knowledge is an important driver of differences in firm productivity, and on the other, that labour mobility plays a central role in the transmission of knowledge between firms. We test whether the mobility of managers between firms leads to better firm performance by estimating a structural model of production and recovering firm-level productivity and markups. We explore the characteristics of movers and sending firms that result in productivity gains for hiring firms, at both the aggregate and industry levels. Results suggest that hiring managers from other firms has strong positive effects on both firm survival and future productivity. Stronger effects are found when movers have relevant experience, advanced qualifications and come from firms with higher human capital or from the top of the productivity distribution. Furthermore, the effects decrease with the productivity level of the hiring firm, suggesting that managerial mobility helps laggard firms catch-up to more productive firms.

Productivity effects of knowledge-based capital: new evidence from German firm-level data, with A. Schiersch (DIW Berlin)

Abstract We seek to understand the role of Knowledge-Based Capital (KBC) in production, with a specific focus on the issue of complementarity. Combining firm data from the AFiD-Panel and employment records from linked employer-employee data, we provide comprehensive estimates of the magnitude and distribution of investment in four KBC assets (Research and Development, Software, Organisational capital, and Intellectual property products) for Germany. This novel dataset is used in a structural estimation of industry-level production functions, where KBC assets are modelled to impact the productivity process. Our descriptive findings show that investments in KBC assets are highly concentrated, being carried out in a restricted set of sectors and by a small group of firms. Our econometric results highlight the productivity enhancing role of investments in KBC. A comparison between industries shows that no single KBC element dominates across the economy. The highest elasticities are found in manufacturing sectors for R&D and in services sectors for software, while organisational capital has a positive, but non-dominant role in all sectors. Finally, we find evidence that software and organizational capital are substitutable in many industries.