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RESEARCH INTERESTS

Labor Economics, Macroeconomics, Applied Econometrics.

REFERENCES

Jean-Marc Robin
Professor
Sciences Po
Department of Economics
Email: jeanmarc.robin@sciencespo.fr

Jan Eeckhout
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UPF, ICREA, GSE
Department of Economics
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Sciences Po
Department of Economics
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EDUCATION

Sciences Po, Paris, France
Ph.D. in Economics, 2015 - 2021 (Expected).
M.Sc. in Economics, 2012 - 2014.

Universitat Pompeu Fabra, Barcelona, Spain
Visiting student, 2019 - 2020.

Sciences Po, Paris, France
Bachelors in Political Science, 2009 - 2012.
Erasmus Exchange, *London School of Economics, London, UK*, 2011 - 2012.

RESEARCH PAPERS

Firms, Biased Technological Change and Job Polarisation.

Job polarisation is a widely-documented phenomenon in industrialised countries. Is it driven due to substitution of routine-workers within-firms or due to reallocation of employment between-firms? Using French administrative data, I document three micro-level forces that drive aggregate job polarisation: within-firm substitution of routine workers by abstract workers, employment growth in manual intensive firms and exit of routine-intensive firms from the labor market. I develop a general equilibrium model with firm heterogeneity, occupational choice and entry to explore the role of dispersion in ICT capital in driving these phenomena. I structurally estimate the model on micro-data to quantify the role of increased dispersion in ICT adoption in driving these facts. I use the estimated model to study the implication of these changes on within and between firm wage inequality and on the minimum wage. In particular, I investigate what would have been the counterfactual within and between firm inequality in France in the absence of the observed supply shifts and institutional factors such as the minimum wage?

The Contribution of Market Power to Wage Inequality, with *Shubhdeep Deb, Jan Eeckhout* and *Larry Warren*.

We investigate how market power affects wage inequality. In particular, we ask how the sharp rise in market power contributes to the rise in the Skill Premium, the wage differential between college and non-college graduates. We set out to complement the skill-biased technological change explanation with forces that have to do with changes in the market structure. Our objectives are threefold. First, we quantify the role of market power and in particular the change in the distribution of market power has played in explaining the rise in the skill premium. Second, we show that a key force that explains the role of market power is intimately linked to the rise in between firm inequality, and the stagnation of within firm inequality. Finally, we show that it is impossible to analyze the role of market power in a representative firm setting; appropriate aggregation of heterogeneous firms is necessary.

Intra-Firm Hierarchies and Gender Gaps, with *Nicolò Dalvit* and *Joanne Tan*.

Does increased female leadership decrease gender wage gaps within firms? Contrary to other papers, we focus on the role of firm hierarchies in gender wage and employment gaps. We find that gender wage and representation gaps are larger in upper layers of hierarchy, even as they narrow over time. Next, we embed a simple model of statistical discrimination in a setup with multi-layered firms to explain the mechanisms through which change in the share of women at the top can affect outcomes for women within firms and how these effects can *trickle down* within firms. We test for the prediction of our model in the data by exploiting the corporate board quota policy in an instrumental variable setting. We find that a rise in the share of women on corporate boards narrows the gender wage gap only for top layers of hierarchy, but not for lower layers.

WORK IN PROGRESS

Estimating high-dimensional production function using Adaptive Elastic Net GMM estimators.

Following recent developments in high-dimensional econometrics and using French administrative data on firms and workers, I estimate a flexible production function involving many non-linearities and interactions. In the machine learning literature, the LASSO (least absolute shrinkage and selection operator) estimator proposed by Tibshirani (1996) has become a popular model building technique for simultaneous estimation and variable selection. I describe how high-dimensional techniques can be used to estimate a production function using the Adaptive Elastic Net GMM estimator. These techniques are used to estimate large dimensional models with potentially (locally) invalid moment conditions. I use my estimates to study the nature of complementarities between different occupational inputs and how this relationship has changed over time.

WORK EXPERIENCE

Research Assistant for Prof. Jean-Marc Robin, Sciences Po, 06/2020 - ongoing. *Estimating a search and matching model of occupational mobility and wage dynamics via Indirect Inference.*

Research Fellow, Carbon and Energy Market, Insitute for Climate Economics, 06/2014-12/2014. *Wrote a Climate Brief analysing the effect of reforms (auctioning and benchmarking) in the third phase of EU Emissions Trading Scheme on carbon emissions*

Research Assistant for Prof. Sergei Guriev and Prof. Ruben Durante, Sciences Po, 01/2015-06/2015. *Data collection, data cleaning and regression analysis to study the effect of US media coverage of natural disasters in different countries on US aid relief*

Research Assistant for Prof. Pierre Cahuc, Center of Research in Economics and Statistics, 04/2013-07/2013. *Calibrated a matching model to study the effect of employment protection legislation and labour market duality on youth unemployment*

TEACHING EXPERIENCE

@ *Sciences Po*

Introduction to Economics Reasoning, Undergraduate, Teaching Assistant, 2017-2018.

Introduction to Macroeconomics, Undergraduate, Teaching Assistant, 2015-2016, 2016-2017.

Introduction to Microeconomics, Undergraduate, Teaching Assistant, 2016-2017.

Advanced Macroeconomics, Master's, Teaching Assistant, Spring semester 2013-2014, 2014-2015.

SCHOLARSHIPS AND AWARDS

Sciences Po's Doctoral grant (2015-2018), Merit-based Emile Boutmy Scholarship (2009-2014), Erasmus Scholarship (2012), AFS-YES Scholarship (2006)

CONFERENCE AND SEMINARS PRESENTATIONS

Society of Economic Dynamics Conference, Barcelona: 2020 (My paper was accepted but the conference is postponed till 2021 due to Covid)

Sciences Po Lunch Seminar: 2016-2019

COMPUTER SKILLS

R, Stata, Python, Matlab, Latex.

LANGUAGES

Hindi (Native), Gujarati (Native), English (Fluent), French (Fluent).