

## JULIEN PASCAL

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Citizenship: French

## SCIENCES PO PARIS

### Office Contact Information

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### Doctoral Studies

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PhD, Economics, Expected completion March 2020

Sciences Po Paris, Department of Economics

Dissertation: "Frictional Markets and Heterogeneity: Applications to the Labor Market"

### References

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#### **Professor Jean-Marc Robin (main advisor)**

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#### **Professor Xavier Ragot (advisor)**

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### Past Education and Visiting Positions

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Visiting Scholar, University of Minnesota, Feb.-March 2019

Visiting Scholar, The London School of Economics and Political Science, Sept.-Oct. 2018

Master of Economics, Sciences Po Paris, 2016

Bachelor in Mathematics, Université Pierre et Marie Curie, *High Distinction*, 2015

Bachelor in Social Sciences, Sciences Po *Cum Laude*, 2013

### Research Fields

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Primary field: Labor Economics

Secondary fields: Macroeconomics, Urban Economics

### Teaching

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**Applied Statistics for Business and Economics (graduate), Master of Economics and Business at Sciences Po Paris, Lecturer, 2017-2019**

- o Content: introduction to probability theory and regression analysis with a focus on applications in finance and economics

### **Econometrics II (graduate), Master of Economics at Sciences Po Paris, 2017-2018**

- o Content: OLS, GLS, IV, qualitative response models, limited dependent variables

### **Introduction to Econometrics and Statistics (graduate), Master of Economics and Business at Sciences Po Paris, Assistant Lecturer, 2016**

- o Content: introduction to probability theory, univariate and multivariate regression models, inference and hypothesis testing

### **Money and Banking (undergraduate), Assistant Lecturer, 2015 - 2016**

- o Content: inter-temporal investment consumption decisions, the quantity theory of money, new keynesian models, the channel system, the yield curve, commitment vs discretion in monetary policy

## **Personal Information**

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**Citizenship:** French

**Languages:** French (native), English (fluent), Spanish (intermediate)

## **Job-Market Paper**

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### **o Labor Income Shocks Along the Business Cycle**

Downloadable [here](#)

Keywords: Sorting, Labor Income Risk, Business Cycle

Methodology: Indirect inference (SMM), Search-and-matching model, HA model

This paper analyzes the determinants of labor income shocks along the business cycle. My main finding is that sorting between firms and workers is a key component of idiosyncratic risk. Labor income shocks are analyzed through the lenses of a dynamic search-and-matching model, which I estimate using US data. Because of search frictions and mismatches between firms and workers, the *laissez-faire* equilibrium is not necessarily optimal. My results underline that the government can tame business cycle fluctuations by designing a simple unemployment policy improving sorting between firms and workers.

## **Work in Progress**

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### **o Spatial Equilibrium and Commuting Costs**

Downloadable [here](#)

Keywords: Local Employment, Transport Infrastructures

Methodology: Spatial RDD

I analyze a French reform that reduced commuting costs in 2015. Using a spatial regression discontinuity design, I find that the reform boosted local employment in municipalities benefiting from the reform. The employment effect of cheaper public transport is concentrated on long-term unemployed workers. I build a spatial search-and-matching model that underlines the mechanism at play.

### **o Rental Housing Market and Directed Search**

Downloadable [here](#)

Keywords: Housing Market, Hedonic Pricing, Directed Search

Methodology: Data scraping, hedonic pricing model, computer vision

Using a novel dataset on the rental housing market in the Paris area, I show that the rental housing market is well described by a directed search model. I develop a hedonic pricing model taking into consideration apartments' characteristics and subjective attractiveness using photos and computer vision techniques from the machine learning literature.

### **o Labor Policy in a Dynamic Search-Matching Model with Heterogeneous Workers and Firms, with Jeremy Lise and Jean-Marc Robin**

Downloadable [here](#)

Keywords: Minimum Wage, Sorting, Business Cycle

Methodology: Indirect inference (SMM), search-and-matching model

We analyse the consequences of the minimum wage on employment and sorting in a model of the labor market with search

frictions, heterogeneous workers and firms, and business cycle fluctuations.

o **Labor Tax in a Dynamic Search-and-Matching Model, with Nicolò Dalvit**

Downloadable [here](#)

Keywords: Taxation, Labor, Business Cycle

Methodology: Indirect inference (SMM), search-and-matching model

We develop a model of the labor market with non-linear taxation on labor and search frictions. We estimate the model using Italian data and analyze the impacts of different tax progressivity levels on business cycle fluctuations.

## Publications

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o **Efficiency and contestability in emerging market banking systems, OECD Journal: Economic Studies, vol. 2016/1**

Downloadable [here](#)

Keywords: Market Contestability, Economic Efficiency

Methodology: Stochastic frontier analysis, panel econometrics

This paper explores some of the potential determinants of efficiency and contestability in the banking systems of major emerging countries. Panel data econometric methods are used to determine potential drivers of both efficiency and market contestability, which provides the basis for an evaluation of potential complementarities and trade-offs between these two dimensions.

## Past Research Positions

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o OECD, consultant at the Economics Department 2014 - 2015

- Wrote a policy paper showing how market contestability and efficiency are linked in the banking sector of emerging market economy. Research included in the 2015 OECD Economic Survey of Colombia. The paper was published in the OECD Journal: Economic Studies.
- Wrote a policy paper documenting financial inclusions initiatives in India. Policy paper to support the 2017 OECD Economic Survey of India.

## Awards, Grants and Fellowships

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Mobility Scholarship for Doctoral Exchange, Sciences Po Paris, 2018

Full Doctoral Scholarship, Sciences Po Paris, 2016–2019

## Conferences and Seminars

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**2019:** 9th Search and Matching Annual Conference (University of Cambridge), AFSE Annual Meeting (University of Orléans.), CEF 2019 (Carleton University), Search and Matching Workshop (University of Bristol), Cinquième conférence AFSE - DG Trésor

**2018:** 8th Search and Matching Annual Conference (University of Cambridge), Topics and Methods in Labor Market Research (ZEW)

**2017:** Laboratory for Interdisciplinary Evaluation of Public Policies (LIEPP); Sciences Po Paris

## Refereeing

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Scandinavian Journal of Economics

## Computer skills

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Julia (advanced), Python (advanced), R (advanced), Stata (advanced), Matlab (advanced), C (intermediate), Dynare (advanced), Git (advanced), Travi CI (advanced), Docker (intermediate), High-Performance-Computing (advanced)