

# Antoine Bertheau | PhD Candidate

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## Research Interests & References

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Primary Field : **Labor Economics**; Secondary Fields : Applied Microeconomics, Firm Dynamics

### Pierre Cahuc

Sciences Po

Paris, France

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### Francis Kramarz

CREST

Palaiseau, France

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### François Fontaine

Paris School of Economics

Paris, France

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### Arne Uhlenborff

CREST

Palaiseau, France

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## Education

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### Ph.D Economics - **CREST (École Polytechnique-ENSAE)**

*Advisors : Pierre Cahuc (Sciences Po) and François Fontaine (PSE)*

2015-present

Visiting at [Massachusetts Institute of Technology \(MIT\)](#), USA. 2019, Spring (sponsor : Simon Jäger)

Visiting at [Aarhus University](#), Denmark. 2015, Fall and 2018, 1 month (sponsor : Rune Vejlin)

### M.S Economics - **PSE (Paris School of Economics-Panthéon Sorbonne)**

*Master Thesis under the supervision of F. Fontaine*

2014–2015

## Research

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### 1. Identifying Core Parameters of Labor Market Models : Evidence from Unexpected Worker Separations.

Joint work with P.Cahuc (Sciences Po) and S.Jäger (MIT).

*Completed draft (Job Market Paper).*

We document how the effects of exogenous shocks to firms' employment identify four central parameters of core models of the labor market : (i) the elasticity of output with respect to labor, (ii) the elasticity of labor supply, (iii) workers' bargaining power, and (iv) the marginal value of a filled job or the cost of labor market frictions to the firm. Empirically, we draw on matched employer-employee data from Denmark and estimate the causal effect of unexpected worker separations, due to deaths, on firm and coworker outcomes. Our reduced form results indicate temporary effects on firms' employment (negative) and coworkers' hours and earnings (positive). We then show how these reduced-form effects identify the core parameters of a search-and-matching model with negotiated wages and hours of work. We

provide a novel estimate for the costs of labor turnover and quantify the role of adjustment of wages and adjustment of hours worked on labor turnover costs.

2. **Employment and Skill Reallocation Over the Business Cycle : Evidence from Danish data** . Joint work with R.Vejlin (Aarhus), M.Hejlesen (Aarhus) and H.Bunzel (Aarhus).  
*Completed draft.*

This paper presents evidence on the respective contribution of poaching (job-to-job) moves and nonemployment moves to employment growth for heterogeneous firms.

3. **Firm's Outsourcing and Earnings Inequality.**

*Work in Progress.*

This paper investigates the impact of externalizing some workers with similar jobs to business service providers on the evolution of wages inside firms.

4. **The Costs of Job Loss Across Countries : Evidence and Explanations.** Joint work with E.Accabi (Harvard), S.Lombardi (Uppsala), C.Barcelo (Banco de España) and R.Saggio (British Columbia).

*Data Collection Process*

The goal of this project is to quantify the role of employment protection across several European economies on earnings of 'displaced' workers.

## Teaching Assistant

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-**ENSAE** : Macroeconomics 1 (Growth), Macroeconomics 2 (Fluctuations),  
Econometrics 1-Graduate (2016/2017/2018)

-**Sciences Po** : Mathematics for Undergraduate (July 2017) and Graduate (August 2018)

-**École Polytechnique** : ECO311 Introduction à l'analyse économique (2018)

## Invited Seminars and Conference Presentations

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**2018/2019**: Dale T. Mortensen Centre Conference (Aarhus, Planned), Society of Labor Economists (SOLE, Washington), Copenhagen University (Invited), European Association of Labor Economics (EALE, Lyon), CREST Micro, European Search and Matching Network (SaM, Cambridge), Association Française de Sciences Économiques (AFSE, Paris)

**2016/2017**: Cergy-Pontoise University (Invited), University of Maine, CREST PhD seminar, CREST, Markets with Search Frictions (Aarhus), EALE (St. Gallen), European Economic Association (EEA, Lisbon), SaM (Barcelona), Workshop on Labor Economics (Trier), Royal Economic Society Symposium of Junior Researchers (RES, Bristol), Winter School CNRS-Travail Emploi et Politique Publique (Invited, Aussois)

## Others

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**Language**: French (mother tongue), English (fluent)

**PhD courses**: Labor Economics (Autor, Jäger) Numerical methods (M.Reitner), Firms Dynamics (J. Earle), Directed Search models (R.Wright), High-Dimensional Econometrics (J. L'hour and C. Gaillac, CREST)

**Activities at CREST**: Organizer of the PhD Economics Seminar