Arthur Guillouzouic Le Corff

Sciences Po
Department of Economics
28 rue des Saints Pères
75007 Paris

Updated: May 18, 2018
Citizenship: French
Born: February 5, 1991
arthur.guillouzouiclecorff@sciencespo.fr
Personal Website

Education	**Ph.D.** in Economics, Sciences Po, Paris	(expected) 2019
	Dissertation: *Local Spillovers, Networks, and Agglomeration*	
	Supervisor: Emeric Henry	
	Master Diploma (Elève Normalien), Ecole Normale Supérieure de Cachan	2010 - 2015
	Visiting Research Student, Faculty of Economics, University of Cambridge	Spring 2015
	M.S. in Economics, Ph.D. Track, Sciences Po	2014
	B.A. in Economics, Paris 1 Sorbonne	2012
	B.A. in Business Administration, Paris Dauphine	2012
	B.A. in Law, Université Rennes 1	2011

Experience	Intern, OECD, Directorate for Science, Technology and Innovation	2014 - 2015 (5 months)
	Intern, CGEIET, French Ministry of Economics and Finance	2013 (2 months)
	Intern, French Embassy in Malaysia	2012 (2 months)

Research Interests	**Primary**	Economics of Innovation, Urban Economics
	Secondary	Social and Economic Networks

Working Papers

The Percolation of Knowledge across Space
with Pierre Cotterlaz

This paper provides an explanation for the enduring spatial frictions affecting knowledge diffusion. We argue that the underlying spatially-clustered network of innovators contributes to generating the effect attributed to distance on international knowledge flows. Firstly, we present evidence that knowledge disseminates within a network of firms by delving into their patent citation behaviour. Based on a strategy using citations added by examiners in patent offices, we find that firms are more likely to cite patents either belonging to their contacts or known by them than similar patents from outside their network. Secondly, we use this finding as a key ingredient of a dynamic network formation model. We show that the predictions of this model, which are sufficient to generate a negative distance elasticity of knowledge flows, are met in our data. This implies that the aggregate effect observed is mostly due to small firms.

Did Oil Prices Trigger an Innovation Burst in Biofuels? [R&R at Energy Economics]

R&D collaboration networks with localized university spillovers

Work in Progress

The Public Sector and Local Economic Performance.
with Emeric Henry and Joan Monras

In this paper, we examine how the provision of a local public good by the public sector affects private sector outcomes such as employment and wages. We study the French national public sector, characterized by a wage structure roughly constant across the territory. We first estimate the effect of the RGPP, a massive reform of the public sector started in 2008, which imposed the non replacement of one out of two civil servants who retired. It suggests that private employment increases with public sector employment, with an elastictity between 0.1 and 0.2. Furthermore, we show that the fixed wage structure in the public sector across the territory has implications for the age compostion of the public sector per city and ultimately for the distribution of economic activity across the country.

Firm Relocations and Local Knowledge Networks.

The geography of innovation is characterized by two main stylized facts: knowledge primarily spills over to neighbouring inventors, and knowledge production is spatially more concentrated than economic activity. The second fact appears as a natural consequence of the first one: firms would cluster in space to take advantage of new knowledge produced around them. Nevertheless, very little is known about the way innovative firms internalize spillovers in their location choices. This paper focuses on innovative firms' decisions to relocate a R&D plant. It first documents important facts about these relocations based on French data, and then builds a theoretical framework emphasizing the effect of local connections to other inventors on relocation decisions.

Teaching	*Instructor:* **Maths for Economists** (grad.)	2016-2017
	Teaching Fellow: **Microeconomics** (undergrad.)	2016-2017
	Prof: Guillaume Plantin	
	Teaching Assistant: **The Future of the Media** (grad.)	2016-2018
	Prof: Julia Cagé	

Presentations	**2018:** AFSE 67th Conference, Sciences Po Lunch Seminar
	2017: EUEA Urban Economics Summer School, CTN Annual Workshop, Sciences Po Lunch Seminar
Skills	Computer: Stata, LaTeX, (basics) Python, R, SAS, Gephi, Matlab.
	Languages: French (native), English (fluent), Spanish (intermediate)