CONNIE LEE

Contact Information

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Education

Mines Paristech, PSL UniversityParis, FrancePh.D. Candidate in Economics2016 – Present

Dissertation: Essays on Firm Innovation

Paris School of EconomicsParis, FranceM.Sc., M2: Analysis and Policy in Economics2016

M1: Quantitative Economics and Finance (at Ecole Polytechnique)

Columbia University

New York, USA

2014

B.Sc., Operations Research: Financial Engineering

Minor in Computer Science

Research Interests

Innovation, entrepreneurship, industrial organization

Working Papers

"Buyouts and Innovation Incentives"

Abstract: This paper examines the interactions between large incumbent firms and new entrants on innovation decisions in the context of the 2008 financial crisis. Using the asymmetric effect of the crisis on firm access to financing between new entrants and large firms, I infer a likelihood of getting bought out for entrants. I then investigate how an increase in the likelihood of getting acquired for a new entrant affects their innovation choices with respect to the existing firms. I construct a novel measure of innovation proximity and show that new firms innovate "closer" to their potential acquirers.

"Firm R&D Inertia"

Abstract: Firm R&D decisions are likely to have lasting consequences. Here I will document patterns of firm technological position over its life cycle. Using patent data, I build a measure to compare the similarity between an innovative firm's technological contents over time with its technological position when it enters. I find that new entrants are likely to continue patenting in areas similar to their initial invention for multiple years – they exhibit inertia. I then describe how the degree of inertia is affected by initial conditions. The heterogeneous firm size distribution is also explored as is the effect of technology sector concentration.

"Regulation Timing on Green Innovation: The Case of Vehicle Emissions", joint with Matthieu Glachant and Antoine Dechezlepretre

Abstract: Does regulatory leadership lead to more innovation? Here we study this question through the case of vehicle emission regulations. There have been multiple rounds of increasingly stringent vehicle emission regulations that

require firms to innovate in order to continue selling in those markets. Through the use of patent data, we identify the related technologies and firms and measure the quality of the innovation. We then use the staggered implementation of different levels of regulation to determine leader and laggard countries. The findings show that there are decreasing returns to late regulation implementation. Additionally, we provide evidence that firms with home countries that are regulatory leaders increase their innovation globally significantly.

Conference Presentations		
2020	Dauphine Doctoral Workshop in Paris, France	
2019	RCEA Growth, Innovation, and Entrepreneurship Conference in Waterloo, Canada Comparative Analysis of Enterprise Data (CAED) Conference in Ann Arbor, USA R&D Management Conference at Ecole Polytechnique in Paris, France CERNA Doctoral Seminar at Mines Paristech in Paris, France ZEW-Leibniz Seminar in Mannheim, Germany Young Economists Seminar, Telecom Paris in Paris, France	
2018	i3 Conference on "The Regulation and Innovation Nexus: New Issues, New Perspectives" in Paris, France Druid Academy in Odense, Denmark SAEE student Workshop in Zurich, Switerland	
2017	FAEE Student Workshop in Paris, France CERNA Doctoral Seminar at Mines Paristech in Paris, France	
Teacl	ning Experience	
Mathe	ematics for Economists (Undergraduate level), Teaching Assistant Professor: Thierry Lafay, Sorbonne University	2019 & 2020
Fello	wships	
Mines Paristech PhD Fellowship		2016 - 2019
Ecole Polytechnique Full Master Scholarship		2013 - 2015
Other	r Experiences	
College de France Research Assistant to Professor Philippe Aghion, Centre de l'économie de l'innovation		Paris, France 2017 – 2018
Agence Française de Développement Research Assistant to Professor Gael Giraud, Chair on Energy Prosperity		Paris, France 2017
Altai Consulting Consultant and Data Science Intern, Masae Analytics Team		Paris, France 2016
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Millennium PartnersNew York, USAQuantitative Analyst Intern, Commodities Team2014

New York, USA

2014

Columbia University

Research Assistant to Professor Tim Leung, IEOR

Citi New York, USA

Business Analyst Intern, Citi Velocity Team 2013

Additional

References: Available upon request

Refereeing Service: Journal of the Economics of Transition

Computer Skills: Python, STATA, Matlab, R, C, C++, Unix, SQL, VBA

some experience with: Java, SAS, Ruby on Rails

Languages: English (native), French (working knowledge), Chinese (working knowledge)

Hobbies: Rock climbing, gardening, piano