Fiona Sijie Feng

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Current Job Market Candidate, NYU Stern Economics

PhD Committee Petra Moser (Chair, Economics, NYU Stern)

Luis Cabral (Economics, NYU Stern)

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Research interests Innovation and technology, machine learning & natural language processing,

urban economics, law and economics, management, labour policy

Education NYU Stern School of Business 2013-

Ph.D. Candidate in Economics

University of Melbourne 2011

Honours in Economics

University of Auckland 2007-2011

Bachelor of Arts/Bachelor of Commerce (Philosophy & Economics)

Papers Measuring the Diffusion of Innovation: A Reassessment of Knowledge

Spillovers Using Machine Learning (Job Market Paper)

Abstract: The ideas of new invention are encapsulated in the text of a patent. Empirical measures of knowledge flows have previously relied on citations, which are the inputs or influences behind new ideas, not the ideas themselves. I use recently developed Machine Learning/Natural Language Processing methods to convert patent abstracts (which are descriptions of the invention) to vectors and analyse the similarity across inventions. Unlike most of the citations-spillovers literature, I find that geographic localization effects are insignificant to modest: prior to controlling technological proximity, within technology field patents from the same city are about 0-0.08 standard deviations more similar than patents from different cities. Including further technology controls reduces estimates to -0.02 to 0.04. By contrast, citations based measures find that local patents have 0.24-0.34 standard deviations more citations from the same city compared to a non-local control. These findings suggest that geographic localization of knowledge spillovers may not be a strong driver of innovation and agglomeration.

Effect of management and workplace policies on workers' job satisfaction. State sponsored innovation: Examining government funded technology from past to present.

Maintaining suspicion: Job creation through surveillance and incarceration. Professionalisation as barrier to entry. *Joint with Karen Huang (Harvard)*

Awards &		
Fellowships	American Economic Association (AEA) CSWEP Summer Dissertation Fellowship, Federal Reserve Bank of Minneapolis	2018
	Policy Research Fellowship, Internet Association	2017
	Teaching Commendation for Rating 6.5/7, Introductory Microeconomics, NYU Stern	
Conferences	Transatlantic Doctoral Conference, London Business School, London, England	2018
	Early Career Economists Conference, Monash University, Melbourne, Australia	
	NET Institute Conference (Discussant), NYU Stern, New York, USA	2017
	NBER Digitization Tutorial, Stanford University, Palo Alto, USA	
Teaching	NYU Stern	UG
	Teaching Fellow, Competitive Analysis with Prof. Greg Kubitz (Spring 2017, Spring 2018)	
	Teaching Fellow, Introductory Microeconomics with Prof. Simon Bowmaker (Fall 2016, Fall 2017)	
	University of Melbourne	
	Tutor, Advanced Macroeconomics with Prof. Lawrence Uren (Semester 2, 2012)	
	Tutor, Intermediate Macroeconomics with Prof. Chris Edmond (Semester 2, 2012)	
	Tutor, Introductory Macroeconomics (Semester 2, 2011; Semester 1, 2012)	
	NYU Stern	MBA
	Teaching Fellow, MBA and EMBA Global Economy with Prof. Stan Zin (Summer 2015, Summer 2016, Summer 2017)	
	Teaching Fellow, Financial Crisis with Prof. Kim Schoenholtz (Fall 2014)	
Professional		
Service	NYU Stern	
	Doctoral Student Events Committee (2015)	
	Destard Applications Poviower (2010)	

Doctoral Applications Reviewer (2010)

University of Auckland

Student Representative, University Central Committee, Senate and Equity (2010)

Treasurer, Auckland University Students' Association (2009-10)

Personal Citizenship: New Zealand

Languages: English (Native), Chinese Mandarin (Fluent)

Programming languages: Python, R, Stata