Fiona Sijie Feng

fiona.sijie.feng@gmail.com | fsfeng.github.io/academic | http://github.com/fsfeng

Education		
	NYU Stern School of Business	2013–2019
	Ph.D. Candidate in Economics (Sep 2019 Graduation)	
	University of Melbourne	2011
	Honours in Economics	
	University of Auckland	2007–2011
	Bachelor of Arts/Bachelor of Commerce (Philosophy & Economics)	

Papers & Projects

The Proximity of Ideas: An Analysis of Patent Text Using Machine Learning

(*Job Market Paper*)

- Explored knowledge relationships in innovative ideas as represented by patent text using machine learning/natural language programming.
- Converted text to numerical data using supervised Neural Networks, and unsupervised Topic Modeling and Doc2Vec in Python.
- Analysed knowledge relatedness using distance metrics such as cosine similarity and Hellinger distance
- Conducted data analytics and visualization using multivariate regression, logistic regression, and panel regression in Python and R

Assessing the Quality of Management and Business Practices from Employee Job Reviews

- Devised measure of management quality using supervised Deep Learning and sentiment analysis in TensorFlow and Keras
- Devised generality index of reviews using clustering on document embeddings with Doc2Vec
- Implemented web scraping in Python
- Conducted data analytics and visualization using time series analysis and panel regression in Python and R

Awards

	American Economic Association (AEA) CSWEP Summer Dissertation Research Fellowship, *Federal Reserve Bank of Minneapolis*	2018
	Policy Research Fellowship, *Internet Association*	2017
	Teaching Commendation for Rating 6.5/7, Introductory Microeconomics, *NYU Stern*	

Presentations	Transatlantic Doctoral Conference, *London Business School*, London, UK	2018
	Early Career Economists Conference, *Monash University*, Melbourne, Australia	
	Summer Internship Presentation, *Federal Reserve Bank of Minneapolis*, Minneapolis, USA	
	NBER Productivity Seminar, *National Bureau of Economic Research*, Boston, USA (October)	
	Roundtable for Engineering Entrepreneurship Research (REER) Conference, *Georgia Tech*, Atlanta, USA (November)	
	NET Institute Conference (Discussant), *NYU Stern*, New York, USA	2017
	NBER Digitization Tutorial, *Stanford University*, Palo Alto, USA	

Work Experience	Research assistance in natural language processing for Prof. Walker Hanlon (*NYU Stern*)	2019
	Summer research fellow in economics (*Federal Reserve Bank of Minneapolis*)	2018
	Teaching fellow for Global Economy (MBA, EMBA), Financial Crisis (MBA), Introductory Microeconomics (UG), Competitive Analysis (UG) (*NYU Stern*)	2014-18
	Research assistance in data analytics for Prof April Franco (*Univ. of Toronto*)	2015
	Statistical consultant (*Logicalis Australia*)	2012
	Teaching fellow for Introductory Macroeconomics, Intermediate Macroeconomics, Advanced Macroeconomics (*Univ. of Melbourne*)	2011-12
	Research assistance in macroeconomic modeling for Prof Ian King (*Univ. of Melbourne*)	2011-12

PhD Committee	Petra Moser (Chair, *Economics, NYU Stern*)	pmoser@stern.nyu.edu
	Luis Cabral (*Economics, NYU Stern*)	luis.cabral@nyu.edu
	Robert Seamans (*Management & Organizations, NYU Stern*)	rseamans.stern.nyu.edu

Professional Service	Doctoral Student Events Committee (*NYU Stern*)	2015
	Doctoral Applications Reviewer (*NYU Stern*)	2015
	Student Representative, University Central Committee, Senate and Equity (*Univ. of Auckland*)	2010
	Treasurer, Auckland University Students' Association (*Univ. of Auckland*)	2009-10

Personal Citizenship: New Zealand

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