Fiona Sijie Feng

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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   2018
Fellowship, *Federal Reserve Bank of Minneapolis*

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
	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 (*Toronto*)	2015
	Statistical consultant for Logicalis Australia	2012
	Teaching fellow for Introductory Macroeconomics, Intermediate Macroeconomics, Advanced Macroeconomics (*University of Melbourne*)	2011–12
	Research assistance in macroeconomic modeling for Prof Ian King (*University 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 (*University of Auckland*)	2010
	Treasurer, Auckland University Students' Association (*University of Auckland*)	2009–10

Personal	Citizenship: New Zealand
	Languages: English (*Native*), Chinese Mandarin (*Fluent*)