

Renfang Tian | PhD Candidate in Economics

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Education

University of Waterloo <i>PhD Candidate, Economics</i>	Waterloo, ON <i>2014–present</i>
University of Waterloo <i>Master of Arts, Economics</i>	Waterloo, ON <i>2013–2014</i>
King's University College at Western University <i>Bachelor of Arts, Honors Specialization in Economics</i> Joint 2+2 program	London, ON <i>2011–2013</i>
School of International Business at Dongbei University of Finance and Economics <i>Bachelor of Arts, Honors Specialization in Economics</i> Joint 2+2 program	China <i>2009–2011</i>

Doctoral Thesis

Topic: *Functional data analysis*

Supervisors: Tao Chen

Description: The goal of the thesis is to motivate methodology development and applications of functional data analysis for the study of economics.

Publication

Chen, T., DeJuan, J. and Tian, R., 'Distributions of GDP Across Versions of the Penn World Tables: A Functional Data Analysis Approach', *Economics Letters*, Elsevier. Forthcoming.

Working Papers

Functional dynamic factor models (with T. Chen and J. Xu)

Bootstrap for functional linear regression models with serial and cross-sectional dependency

Functional regression: An application to housing valuation (with T. Chen and J. Harding)

Experience

Teaching Assistant	
Department of Economics, University of Waterloo <i>Tutorial leader for "Introduction to Mathematical Economics"</i>	Waterloo, ON <i>2018–present</i>
Department of Economics, University of Waterloo <i>Tutorial leader for "Statistics for Economists"</i>	Waterloo, ON <i>2018–present</i>
Department of Economics, University of Waterloo <i>Tutorial leader for "Introduction to Mathematical Economics"</i>	Waterloo, ON <i>2017</i>

King's University College at Western University
Director of King's Economics Tutoring Center

London, ON
2012–2013

Research Assistant

Tao Chen
Data analysis with functional data methods and other statistical tools

Waterloo, ON
2016

Kathleen Rybczynski
Literature review

Waterloo, ON
2015

Ayoub Yousefi
Data mining and regression analysis

London, ON
2014

Murshed Chowdhury
Data mining and literature review

London, ON
2013

Jae-Dong Han
Data mining and literature review

London, ON
2012–2013

Programing Languages

R, Matlab