

HAUTAHI KINGI

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EDUCATION

Ph.D., M.A.	Economics, Cornell University, 2016
B.Sc., B.C.A.	Mathematics, Statistics, Economics (<i>Summa Cum Laude</i>), Victoria University, 2010

RESEARCH AND PROFESSIONAL EXPERIENCE

Head of Science at OnSide Limited, Christchurch, New Zealand 2017 - Present

- Constructed a network of 40 million annual movements between 280,000 rural properties in New Zealand.
- Designed network monitoring and response algorithms to control and reduce agricultural disease spread.
- Lead data science team.

Senior Research Economist at IMPAQ International, Washington, DC 2016 - Present

- Manage budgets, client relationships and research staff for multi-million dollar federal research contracts.
- Expert in mathematical and economic modeling, network analysis, machine learning, and Bayesian modeling.
- Conducted randomized control trial to estimate employment impacts of federally-funded job training programs
- Produced spatio-temporal prediction model to win the [national NIJ crime forecasting competition](#).
- Built a microsimulation economic model to estimate cost of new Family and Medical Leave programs.
- Developed hierarchical Bayes model to predict violation rates of tobacco retailers.
- Created webscraping and text mining tool to track spread of public health information across US hospitals.
- Built machine learning classifier to predict physician participation in the Merit Based Incentive Payment System.
- Built natural language tool to detect sentiment of publicly submitted rule comments.

Research Assistant at Labor Dynamics Institute, Ithaca, NY 2013 - 2016

Research Associate at International Monetary Fund, Washington, DC. Summer 2012

Corporate Finance Analyst at PricewaterhouseCoopers, Wellington, New Zealand. 2007 - 2011

SELECTED PUBLICATIONS AND ESSAYS

- *A Bayesian Analysis of Undergraduate and Postgraduate Completion Rates*, CBE-Life Sciences Education, 2018.
- *Welfare Analysis in an Extended Harris-Todaro Model*, The B.E. Journal of Theoretical Economics, 2017.
- *The Effect of Tax Expenditures on Automatic Stabilizers*, Journal of Empirical Legal Studies, 2017.
- *A Numerical Evaluation of the Accuracy of Influence Maximization Algorithms*, Under Review, 2019.
- *The Reproducibility of Economics Research*, Working Paper, 2019.
- *International Migration: The Great Trade-Off*, Chapter 5, Fair Borders?, Bridget Williams Books, 2017.
- *How Bazaar: A Review of Alvin Roth's Who Gets What and Why*, The New Zealand Listener, 20 August 2015.
- *The Past Matters: Reflections on Tangata Whenua*, The Pantograph Punch, 15 April 2015.
- *Illuminating Inequality*, Ch. 9, The Piketty Phenomenon: New Zealand Perspectives, Bridget Williams Books, 2014.

ACADEMIC AWARDS

Motu Thesis Scholarship 2016; Louis Walinsky Fund in Economics Outstanding Teaching Award 2014; William Georgetti Scholarship 2012 - 2015; Bernard Edward Murphy Memorial Scholarship for Economics 2010; Victoria University Graduate Award 2010; Jan Whitwell Prize in Macro and Monetary Economics 2009; Financial Services Institute of Australasia Prize in Corporate Finance 2009; Sir Apirana Ngata Memorial Scholarship 2009; Alumni Association Faculty Award 2007; Victoria University School-Leaver Scholarship for Academic Excellence 2006; PricewaterhouseCoopers Scholarship 2005; Maori Education Trust Undergraduate Higher Learning Scholarship 2005.

SELECTED INVITED PRESENTATIONS

International Academy of Trial Lawyers (Montana, 2019); Berkeley Initiative for Transparency in the Social Sciences Annual Meeting (Berkeley 2018); Nuffield New Zealand Conference (Tauranga 2018); Federal Committee on Statistical Methodology Research and Policy Conference (Washington D.C. 2018); Reducing Achievement Gaps in STEM Conference (Arlington 2017); 108th Annual Conference on Taxation (Boston 2015); National Māori Health Symposium (Wellington 2015, 2016); High Performance Computing for Social Scientists Instructor (Cornell 2014-2016); Ph.D. Macroeconomics Teaching Assistant (Cornell 2013).