

# HAUTAHKI KINGI

New Zealand Citizen • U.S. Permanent Resident  
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## EDUCATION

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

## EXPERIENCE

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**Research Scientist at Facebook**, New York, NY 2020 - Present

**Head of Science at OnSide**, 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.
- Led team of eight data scientists and software engineers.

**Senior Research Economist at IMPAQ International**, Washington, DC 2016 - 2020

- Managed budgets, client relationships and ten research staff for multi-million dollar federal research contracts.
- Conducted randomized control trial to estimate employment impacts of job training programs
- Produced spatio-temporal prediction model to win the national NIJ crime forecasting competition.
- Built a microsimulation model to predict leave taking behavior and estimate cost of paid 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

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- *A Numerical Evaluation of the Accuracy of Influence Maximization Algorithms*, SNAM, 2020.
- *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.
- *The Reproducibility of Economics Research*, Working Paper, 2019.
- *Modeling Amino Acid Requirements in Dairy Cows*, Working Paper, 2019.
- *International Migration: The Great Trade-Off*, Ch. 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 AND RESEARCH AWARDS

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Bio-Protection Research Science Center Award 2020; 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

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International Academy of Trial Lawyers 2019; ACM ICTIR 2019; Berkeley Initiative for Transparency in the Social Sciences 2018; Nuffield New Zealand 2018; Federal Committee on Statistical Methodology Research and Policy 2018; Reducing Achievement Gaps in STEM 2017; 108th Annual Conference on Taxation 2015; National Māori Health Symposium 2015, 2016; Cornell High Performance Computing Instructor 2014 - 2016; Cornell Ph.D. Macroeconomics Instructor 2013.