DANIEL BAIGENT

SENIOR RESEARCH & DATA ANALYST

I am an accomplished senior research and data analyst with over eight years of experience delivering data-driven insights. I am passionate about leveraging analytical tools to solve complex issues and improve decision making. I am seeking to develop my career in London, following a period of travel. I have the right to work in the U.K.

SKILLS

Data analytics (Python, Excel, ArcGIS)
Data modelling & dashboard design (Power Query, SQL, Power BI)
Programme evaluation (Intervention logic, outcome evaluations)

EXPERIENCE

SENIOR RESEARCH AND DATA ANALYST

Ministry of Business, Innovation and Employment | July 2018 - December 2023

Led research on the use of high frequency electronic card transaction data to monitor the spread of COVID-19 during the pandemic. Developed a dashboard to monitor the dispersion of people from locations of interest and highlighted areas at heightened risk of transmission for senior decision makers.

Produced weekly insights reports for the Minister of Economic Development, covering industrial performance, demographic trends, trade, labour market dynamics, and regional economic activity - analysed proprietary and external data releases, developed performance metrics, summarised emerging trends, and reported against government priorities.

Published research on shifts in New Zealand's comparative export advantages and the potential for future diversification across industries and product lines. Recommended policy settings incentivise a technological shift in 'how' goods are produced through deepening capital intensity, due to a persistent reliance on emissions intensive primary industries.

Led analysis on the impact of COVID-19 on regional labour markets to inform the distribution of a Tourism Recovery Package. Drew insights from unit record tax data and high-frequency electronic card transactions to provide advice on equitable fund distribution. Presented findings at the New Zealand Association of Economists conference.

Developed quantitative methods to classify 'vulnerable' imports within New Zealand's supply chains, utilising Python for data transformations and Power BI to cross-filter global trade databases. Quantified the proportion of vulnerable inputs within specific industries using input-output tables to create risk profiles. Presented findings to inform government emergency planning.

Built dashboards to amalgamate key regional statistics and contextual information for Ministers when visiting different parts of the country.

LEAD ECONOMIC ANALYST

Department of the Prime Minister & Cabinet (Secondment) | September 2020 - February 2021

Led research on the economic impact of containing COVID-19 through regional boundaries by modelling commuter flows and industry output across different Alert Level settings. Proposed boundary options that minimised economic disruption whilst maintaining health objectives.

Analysed novel population movement datasets using Power BI to highlight areas at heightened risk of transmission over holiday periods. My work led to the expansion of COVID-19 testing capacity in vulnerable areas.

POLICY ANALYST

Ministry of Education | January 2017 - July 2018

As subject matter expert in wellbeing and learning support, I led the Ministry's contribution to the cross-agency National Youth Health and Wellbeing Survey, including development of priority research areas, identification of research gaps, and future needs assessment.

Procured external consultants to undertake research into the efficacy of education in online settings - scoped research questions, drafted procurement contracts, evaluated proposals and facilitated sector workshops.

RESEARCH ANALYST

Ministry of Business, Innovation and Employment | January 2016 - December 2016

Undertook research to better understand industrial change and labour market attachment in South Auckland using spatial statistics (cluster and hot spot analysis) and economic modelling (shift-share analysis).

Discovered that Pacific people were disproportionately impacted by a decline in manufacturing roles and highlighted the importance of place-based job retraining schemes to policy makers.

EDUCATION

MASTER OF PUBLIC POLICY

First Class Honours | University of Auckland

BACHELOR OF ARTS

Geography & Philosophy | University of Auckland

CONTACT

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