DANIEL BAIGENT

SENIOR RESEARCH & DATA ANALYST | ECONOMIC DEVELOPMENT SPECIALIST

Accomplished senior research and data analyst with over eight years of experience providing critical insights to ministers and policy professionals. I am passionate about leveraging analytical tools to help solve economic development issues and improve decision making processes. I am seeking to develop my career in London, following a period of travel.

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

Published research on shifts in New Zealand's comparative export advantages, leveraging Python for data transformations and DAX to create performance metrics. Built a Power BI dashboard that demonstrates increasing dependence on existing export strengths rather than diversification.

Developed quantitative methods to classify 'vulnerable' imports within New Zealand's supply chains, utilising Python for ETL 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.

Developed data products to report on socioeconomic, environmental and industrial metrics, including a weekly economic insights report for Ministers which featured concise commentary and data visualisations on emerging trends.

Maintained a suite of public facing Regional Economic Activity web tools, updated scripts in R and engaged with stakeholders to ensure themes remained relevant. Automated summaries of key contextual data for Ministers when attending events.

Created the evidence base for the Manufacturing Industry Transformation Plan using statistical analysis and GIS mapping techniques to identify industry trends. This informed a narrative advocating for a transition to higher value-added activities.

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

Led work to require state schools to have an "opt-in" process for religious instruction - developed the rationale for change, proposed options for reform to Ministers and secured Cabinet approval for legislative change.

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

daniel.baigent@outlook.com
https://www.linkedin.com/in/danielbaigent