

Michael Mak, CFA

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Experience

CANADA MORTGAGE AND HOUSING CORPORATION

Senior Analyst, Economics

Vancouver, BC
Feb 2020 – Present

- Led housing market and economic analysis of the Calgary CMA while coordinating with Western Canada and National teams by authoring 13 reports covering affordability, the rental market, housing supply, and stability.
- Engineered data analysis pipelines and tools using Python to modernize and innovate analytical methods including creating 20 years of geo-spatial resales data for the Vancouver CMA.
- Forecasted annual housing activity such as starts, price, and sales using econometric and time series models such as SARIMAX, ARDL, ARMA.
- Advised Executive Committee and Board members on economic impacts during the heights of the COVID-19 pandemic.
- Represented the CMHC as a media spokesperson on economic and housing matters through television, radio, online, and print journalism outlets such as CBC, Global News and CTV.
- Partnered with leading industry stakeholders in multiple levels of government, as well as private sector partners including developers, property managers, realtors, and real estate associations to further housing affordability and collaboration.

CMLS FINANCIAL

Analyst, Mortgage Analytics Group

Vancouver, BC
Nov 2019 – Feb 2020

- Delivered monthly commentary on Canadian macro-economic events and figures to institutional partners.
- Developed business intelligence dashboards using Tableau and PowerBI to visualize and analyze corporate revenue and profit pipelines.
- Formulated and conducted a Quarterly Sentiment Survey on the Commercial Mortgage lending market, with over 30 institutional participants including investment managers, banks, and insurance corporations.

CANADA MORTGAGE AND HOUSING CORPORATION

Junior Analyst, Market Analysis Centre

Vancouver, BC
Jun 2017 – Aug 2018

- Spearheaded development of a proprietary relational database of over 75 million datapoints using Python and SQL to easily conduct analysis of micro-data.
- Conducted feasibility analyses of a dozen multi-unit rental buildings valued above \$10m each, in major British Columbian metropolitan areas.

Education

UNIVERSITY OF BRITISH COLUMBIA

Vancouver, BC

Bachelor of Arts, Economics, Commerce

Thesis: *Federal Open Market Committee Statements, Sentiment, and the United States Stock Market*

- Awarded the W. Erwin Diewert Prize in Applied Economics for authoring "Federal Open Market Committee Statements, Sentiment, and the United States Stock Market"
- Published in the Iona Journal of Economics

Relevant Coursework: Quantitative Economics; Topics on applied quantitative data analysis with Python. LASSO regression, random forests, neural-network based learning, natural language processing.

CFA INSTITUTE

CFA Charterholder

Nov 2022

Leadership & Activities

DEPARTMENT OF NATIONAL DEFENCE

Administrative Officer, Cadet Organizations Administration and Training Service

Vancouver, BC
May 2018 – Present

- Managed mixed adult and cadet staff in managing unit administrative department to achieve training objectives.
- Improved unit operational efficiencies in personnel management by integrating Excel spreadsheets and available DND resources.
- Awarded "Officer of the Year" award in 2018

Director of Music, RCSCC 102 Fraser, RCSCC 195 Bicknell

Sept 2015 - Present

- Oversaw training and organization of unit music departments, while delivering a competitive military drill and music program.

Skills & Interests

Technical: Python (Pandas, Numpy, SciPy, Statsmodels, Jupyter), SQL, R, VBA, PowerBI, Tableau

Language: English (Native), Cantonese (Fluent), Mandarin (Basic)

Interests: Programming, music composition/orchestration, algorithmic trading, photography