

# Michael Mak

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## Education

### UNIVERSITY OF BRITISH COLUMBIA

Bachelor of Arts, Economics, Commerce

Vancouver, BC

May 2019

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 Level 3 Candidate

- Completed CFA Level 2

Jan 2022

## 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.
- Engineered data analysis pipelines and tools using Python to modernize and innovate analytical methods including geo-spatial economic research.
- Forecasted annual housing activity such as starts, price, and sales using economic and time series models such as SARIMAX, ARDL, ARMA.
- 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.
- Liaised between leading industry stakeholders in multiple levels of government, as well as private sector partners including developers, property managers, realtors, and real estate associations.

### 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.

## Leadership & Activities

### DEPARTMENT OF NATIONAL DEFENCE

Administrative Officer, Cadet Organizations Administration and Training Service

Vancouver, BC

May 2018 – Present

- Led 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, quantitative finance