

JESSICA JIA HUI TING

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EDUCATION

GEORGIA INSTITUTE OF TECHNOLOGY

Master of Science, Analytics

Atlanta, GA, United States

Expected graduation: 2025

- Relevant Coursework: Data and Visual Analytics, Computing for Data Analytics, Operations Research for Supply Chains (Linear Programming and Optimization), Introduction to Analytics, Business Fundamentals

NATIONAL UNIVERSITY OF SINGAPORE

Bachelor of Social Sciences, Economics (Honors)

Singapore

2015-2019

- Grade Attained: 4.88/5.00 (Highest Distinction)
- Specialization: Quantitative Economics; Minor/Other Programs: Statistics, University Scholars Program
- Honors Thesis: "Dynamic Conditional Score Models: Forecasting Volatility of Exchange Rates"
- Awards: Faculty of Arts and Social Sciences Dean's Scholars List (2 semesters), Dean's List (4 semesters); University Scholars Program Honor Roll (2016), Senior Honor Roll (2017), and President's Honor Roll (2019)

WORK EXPERIENCE

MINISTRY OF TRADE AND INDUSTRY

Senior Economist (Economic Issues and Insights/Growth Income and Productivity Unit)

Singapore

May 2020-Aug 2024

Main Responsibilities:

- Drove data-intensive research projects involving data harmonization and cleaning, and advanced statistical analyses in STATA, Tableau, R and Python. Collaborated with cross-functional policy teams to contextualize findings and deliver actionable insights to senior management for evidence-based policy formulation
- Developed economic parameters and scenarios for national long-term infrastructure planning
- Mentored interns on coding, policy contexts and econometric methodologies for their research projects, resulting in deliverables that shaped policy prioritization
- Supported critical organizational processes including the 2023 Budget and Committee of Supply debates, review of training material for new officers, and the development of the Economist Service competency framework
- Organized the annual Economic Dialogue in collaboration with three local universities, facilitating a platform for students to engage the Minister for Trade and Industry on pertinent economic issues

Key Projects:

- Effect of university cohort expansions on wage premiums to inform education policy. Findings were published in an [article](#) the Economic Survey of Singapore
- Decomposition of wage trends into key components. Findings shared at various cross-agency senior management platforms to guide discussions on policy levers to narrow the productivity-wage gap
- Characterization of the R&D and innovation landscape using administrative and novel survey data, and the relationship between public and business R&D spending. Findings shared with senior management to understand R&D dynamics
- Analyzing the contribution of [intangible assets](#) and [other drivers](#) to productivity growth using shift-share and growth accounting methods. Findings were published in articles in the Economic Survey of Singapore
- Developed a dashboard tracking key labor market indicators during the COVID-19 pandemic for policy calibration

MINISTRY OF HEALTH, MINISTRY OF SOCIAL AND FAMILY DEVELOPMENT, NATIONAL UNIVERSITY OF SINGAPORE (ECONOMICS DEPARTMENT)

2016-2020

Completed various internship, teaching assistantships and research assistantships

PROFESSIONAL DEVELOPMENT

- *Python Programming and Unstructured Text Analytics* (Civil Service College Singapore) Feb 2023
- *Machine Learning and Big Data CEP, ASSA Annual Meeting* (American Economic Association) Jan 2023
- *Using Text as Data: Methods and Applications* (Barcelona School of Economics) Jul 2022
- *Audited PhD Empirical Research Project Course* (Singapore Management University) Jan 2022-Apr 2022
- *Audited PhD Labor Economics Course* (Singapore Management University) Mar 2021-May 2021

SKILLS

Programming Languages & Software: Python, SQL, STATA, R, Tableau, exposure to JavaScript & D3 through coursework

Cloud & Big Data: Exposure to AWS, GCP, PySpark, Apache Spark, Databricks, Azure Machine Learning through coursework

Analytical Skills: Causal Inference (Survival Analysis, Difference-in-Differences, Matching Methods, Regression Discontinuity Design, Synthetic Controls), Machine Learning (Regression, Classification, Clustering, Random Forest), Time Series Forecasting & Volatility Modelling, Optimization, Text Analytics