# Tiffany Yong

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## EDUCATION

**McGill University**                                       September 2020 – April 2024
Bachelor of Arts in Honours Economics, Majors Mathematics (GPA: 3.99/4.00)

***Relevant Courses:*** *Microeconomic Theory 3 (PhD), Game Theory (MA), Honours Analysis 1 & 2, Honours Statistics, Causal Inference (MA), Honours Probability, Applied Machine Learning (MA), Honours Vector Calculus, Econometrics II - Honours, Algorithmic Game Theory (MA), Climate and Household Finance (PhD, audited at NYU Stern)*

## WORKING PAPERS

**"Climate Transition Risks and the Energy Sector"** with Viral V. Acharya, Stefano Giglio, Stefano Pastore, Johannes Stroebel, and Zhenhao Tan. *Revise & Resubmit, Review of Financial Studies*

**"Mechanisms of Contagion in Financial Networks"**     *Undergraduate Thesis*
Developed and simulated a core–periphery banking network model with fire-sale price effects to quantify relative contagion through portfolio and interbank channels; advised by Prof. Leonie Baumann.

## RESEARCH EXPERIENCE

**Stern School of Business, New York University**   *Junior Research Scientist*   September 2024 – Present
↪ Profs. Johannes Stroebel & Theresa Kuchler

*"Climate Transition Risks and the Energy Sector" (co-authored)*
- Built GPT-based news article classification pipeline to generate *New York Times* transition risk indices; fine-tuned and deployed BERT, StoriesLM, and Llama 4 Scout models on NYU's HPC for robustness checks
- Obtained a dataset of 200k U.S. oil and gas wells from Enverus and engineered permit-based activity signals to detect firm investment responses to transition risks, used as empirical validation
- Wrote theoretical and empirical sections and modularised the codebase into a pipeline to run empirics and simulations

*"The Economics of Biodiversity Loss"*
- Derived an ecologically grounded biodiversity imbalance measure using species-range data scraped from the Map of Life and fuzzy-matched to taxonomic classifications in TetrapodTraits to reflect uneven ecosystem function loss
- Integrated the final dataset into the empirical workflow and produced exposure maps and regression tables

*"Social Capital Around the World"*
- Created a crosswalk between EU and ISO administrative regions to harmonise EVS and WVS survey geographies
- Built a geospatial pipeline to estimate raw and effective population density for admin regions from LandScan raster

**McGill University**   *Research Assistant*                          January 2024 – April 2024
↪ Prof. Hassan Benchekroun
Conducted literature review on recycling; covering resource dynamics, market structure, and empirical evidence

**Institute for Health and Social Policy**   *Research Assistant*        June 2022 – September 2022
↪ Prof. Christopher Barrington-Leigh, McGill University
Coded website cataloguing collective action problems, formalised theoretical foundations, and authored content

## HONOURS AND AWARDS

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|---|---|
| **Allen Oliver Fellowship**, McGill University - Top Honours Economics Graduate | 2024 |
| **Great-West Life Scholarship**, McGill University | 2023 |
| **Charles William Snyder Memorial Scholarship**, McGill University | 2022 |
| **Edward C. Wood Entrance Scholarship**, McGill University | 2020 |
| **Dean's Honour List**, McGill University | 2021–2024 |

## Teaching Experience

**McGill University**   *Course Assistant*                                      January 2024 – March 2024
Graded Honours Analysis 2, taught by Professor Dmitry Jakobson

**Economics Students' Association**   *Helpdesk Tutor*                September 2021 – April 2024
Tutored students in core economics classes, and gave tutorials and final review sessions with my own lecture notes

## Projects

**Notes on Econometrics**   [PDF], [Recording]
My final review lecture and notes packet for Professor Saraswata Chaudhuri's *Econometrics I - Honours*

**Notes on Macroeconomics**   [PDF], [Recording]
My final review lecture and notes packet for Professor Francisco Alvarez-Cuadrado's *Macroeconomics - Honours*

**COVID-19 Twitter Discourse Analysis**   [Report]
Analysed tweet data to understand common topics surrounding COVID-19, and reasons for vaccine hesitancy

**SUMS Notes Bank**   [Web], [Code]
Coded a website for students to find and contribute notes for their math classes at McGill University

## Work Experience

**Framework Venture Partners**   *Junior Analyst*                             May 2023 – July 2023
Sourced and evaluated 400+ early-stage firms, conducting unit economics, market sizing and competitive analysis

**Front Row Ventures**   *Director of Investments, QC*                      June 2022 – May 2023
Led a student team to deploy a $5M fund, sourcing 350 student startups and executing $125K in early-stage investments

## Extracurriculars

**McGill Diversity in Mathematics**   *Founding Team, VP Communications*      January 2021 – April 2024
Helped found a club to inspire students from all backgrounds to develop their passion for math

**McGill Society of Undergraduate Mathematics Students**   *President*        May 2021 – April 2022
Led a 14-person council to represent the 1100-strong math community to faculty and administration

**#YouthForDigitalSustainability Project**   *Working Group Member*          August 2020 – November 2020
Provided policy recommendations to the 2020 UN Internet Governance Forum, under "Greening the Internet" path

## Skills, Activities and Interests

**Technical Skills:** Python, Stata, LaTeX, R, Bash, Matlab, HTML/CSS/Javascript

**Activities:** Provided free tutoring and university mentoring for high school students during the COVID-19 crisis, collaborated with others to code website for COVID-19 Quebec vaccination count tracking

**Languages:** English (native), Mandarin Chinese (intermediate), French (elementary)