

# Tiffany Yong

✉ tiffany.yong@mail.mcgill.ca | 🌐 tiffanyyong.net | ☎ (929) 601-1684

## 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)*, *Honours Analysis 1 & 2*, *Honours Statistics*, *Algorithmic Game Theory (MA)*, *Causal Inference (MA)*, *Honours Probability*, *Applied Machine Learning (MA)*, *Intro to Data Science*, *Game Theory (MA)*, *Honours Vector Calculus*, *Econometrics II - Honours*, *Climate and Household Finance (PhD)*

## WORKING PAPERS

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

“Mechanisms of Contagion in Financial Networks” (Undergraduate Thesis) [PDF]

Literature review on financial contagion in the banking network, and novel theoretical model that explains relative risks of different mechanisms of contagion, advised by Prof. Leonie Baumann

## RESEARCH EXPERIENCE

### Stern School of Business, New York University Junior Research Scientist

September 2024 – Present

↔ Profs. Johannes Stroebe, Viral Acharya, Richard Berner & Robert Engle

#### *Climate Transition Risks and the Energy Sector*

- Built GPT-based news classification pipeline to generate NYT transition risk indices; fine-tuned BERT, StoriesLM, and deployed Llama 4 Scout 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 empirical sections and modularised the codebase into a pipeline generating empirical and simulation results

#### *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*

- Harmonised EVS and WVS geographies by building a NUTS3 to ISO-3166-2 crosswalk via polygon intersections
- Built geospatial pipeline to compute raw and effective population density for GADM regions from LandScan raster

### McGill University Research Assistant

January 2024 – April 2024

↔ Prof. Hassan Bencheikroun

Conducted review on recycling literature, covering resource dynamics, market structure and entry, and empirical data

### 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

## HONORS AND AWARDS

**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

## PROJECTS

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### 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

## TEACHING EXPERIENCE

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### 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

## WORK EXPERIENCE

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### 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

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### McGill Diversity in Mathematics Founding Team, VP Communications

Jun. 2020 – 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

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**Technical Skills:** Python, Stata, L<sup>A</sup>T<sub>E</sub>X, R, Bash, Matlab, HTML/CSS/Javascript, MS Suite

**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, and an [epidemic simulator](#)

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

**Interests:** Climate Finance, Empirical Microeconomics, Economic Networks, Game Theory