

ShangHung(Eric) Wu

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EDUCATION

University of Toronto Scarborough Campus

cGPA: 3.94/4

HBSc in Mathematics Specialist (Statistics Stream), Economics Major

Sep. 2023 – May. 2027 (expected)

Summer Abroad at Worcester College, University of Oxford

Grade: 93/100

CRI389Y0 - Rights, Freedoms and Responsibilities in Criminal Law

Aug. 2024 - Sep. 2024

EXPERIENCE

Private Tutor - Economics, Mathematics, English

June 2023 – Present

Hybrid Self-Employed

Taiwan & Ontario

- Introduced students to the history of economic thoughts.
- Designed spontaneous tutorial notes and assignments; access my teaching material here.
- Assisted students in achieving desired brand marks for IELTS/TOEFL.

PROJECTS (*hyperlinked titles*)

Price Fixing: Canadian Cartel Bread Industry v. Supply-Managed Dairy Industry 2024 July – August

- Incorporated graphs illustrating deadweight loss associated with cartel practice and supply management generated in *python matplotlib*.
- Introduced a repeated game between farmers and government: the political risk ensures the inevitable yet stable practice of supply management despite its associated deadweight loss
- Aggregated the fringe and dominant supply in a dominant pricing model to show the dependence of proper regulation on supplier's cost structure: we show that with sufficient discrepancy between the fringe and dominant supply marginal cost structures, marginal pricing allows for an equilibrium with lower price and greater quantity.

Modern Monetary Theory: Implications and Problems

2024 July – August

- Explored Modern Monetary Theory (MMT) in comparison to the mainstream neoclassical and new-Keynsian Macroeconomics framework.
- We argue that combining central bank and treasury will lead to a conflict of interests: the former targets inflation whereas the latter has an incentive to inflate.
- Critiqued MMT's job guaranteed program by Phillips Curve's time inconsistency problem and the recursively rising inflation rate in dynamic aggregate model: we point out that MMTers neglect the fundamental behavior components in economics as a social science. In particular, they overlook expectation, either rational or adaptive, as an anchoring factor in macroeconomics activities.
- Graphs for Philips Curve and DAS/DAD model generated in *python matplotlib*.

TECHNICAL SKILLS

Languages & Libraries: Python (pandas, NumPy, Matplotlib), R (tidyverse, data.table, plm, fixest, AER, sandwich, lmtest, forecast, caret, glmnet, xgboost), Matlab, HTML/CSS/JavaScript.

Others: Excel, L^AT_EX.

COMPLETED COURSES

Maths: Linear Algebra I & II (A and A+), Discrete Mathematics (A), Calculus for Mathematical Sciences I & II.

Economics: Quantitative Methods I & II (A and A+), Intro Regression Analysis (A+);

Intermediate Microeconomics B & C level (92 and 96), Intermediate Macroeconomics B & C level (A and 95);

Introductory Micro/Macro (A- and 97).

CS: Introduction to Computer Science I (in *Python*) (93).

Currently taking: Introduction to Probability (mathematical treatment), Calculus III, Differential Equation I, Theory and Practice of Regression Analysis (in *R*).