Tianyu Du

Undergraduate at University of Toronto, Economics, Mathematics and Computer Science

CONTACTS

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EDUCATIONS

SEP. 2017 University of Toronto, Toronto, Canada.

- JUN. 2020 Honours Bachelor of Science

(Expected) Programs Economics&Mathematics Specialist and Computer Science Minor

RELEVANT COURSES: Real analysis, Game Theory, Non-linear optimization

Time Series Analysis, Econometrics, Microeconomics (PhD)

CUMULATIVE GPA: 4.00/4.00

JUN. 2019 Stanford University, California, United States.

- Aug. 2019 Summer Session, Intensive Studies Program in Data Science

COURSES: Machine Learning (Graduate), Data Mining and Analysis (Graduate),

Theory of Probability (Undergraduate).

SEP. 2014 Hangzhou Foreign Language School, Hangzhou, China.

- Jun. 2017 General Certificate of Education, A Level by Cambridge International Examinations

Advanced Placement (AP)

SCHOLARSHIPS AND AWARDS

Jun. 2019 Dean's List Scholar (2018-19)
JAN. 2018 Dean's List Scholar (2017-18)
MAY. 2019 International Experience Award

(Killam American Fund for International Exchange \$ 5,000)

RESEARCH INTERESTS

- Machine Learning Methods for Econometrics and Casual Inferences.
- Computational Economics, Game Theory, and Market Design.
- · Machine Learning Methods and their Applications on Time Series Forecasting.

ACTIVITIES & PROJECTS

Treatment Effect, Clustering, Classification, and Forecasting using PANSS data JUN. 2019 The Final Project for STATS202 at Stanford University - AIUG. 2019 Positive and Negative Syndrome Scale (PANSS) scores of schizophrenia patients were used to test treatment effects, clustering patients based on prior-treatment scores. Moreover, SVM, random forests, and boosting machines were developed to flag invalid assessments and forecast patients' future states. MAY. 2018 Artificial Neural Networks in Economic Forecasting - Present. *Independent Research* Evaluating and comparing the relative performances of neural networks and traditional models on time series forecasting. Independent Reading in Mathematics: Mathematical Economics MAY. 2019 Supervisor: Robert J. McCann - JUN. 2019 Reading in microeconomic theories with rigorous mathematical proofs. **CIBC Machine Intelligence Hackaton** SEP. 2018 Finalist Group (Top 5) An auto-encoder-decoder architecture neural network was implemented to catch fraud in medical insurance

SKILL SHEET

- Programmings: Python including TensorFlow, PyTorch, Sci-kit Learn, Numpy, and various data visualization toolkits; R; STATA; Matlab; Mathematica; Bash.
- Development: Server deployment on Amazon Web Services (AWS) and Google Cloud Platform (GCP).
- Data Analysis & Machine Learning: Solid mathematical and statistical foundations for statistical learning models.