TIANYU DU

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EDUCATION

University of Toronto, Ontario, Canada *Sep. 2017 - Jun. 2020(Expected)*
Honours Bachelor of Science.
Program: Economics & Mathematics Specialist.
Courses Taken: Real Analysis, Game Theory, Non-linear Optimization. Time Series Analysis, Econometrics, Microeconomics(Ph.D).
Cumulative GPA: 4.00/4.00, Course Average: 94%.

Stanford University, California, United States *Jun. 2019 - Aug. 2019*
Program: Intensive Study in Data Science
Courses taken: Machine learning(Graduate), Data Mining and Analysis(Graduate), Theory of Probability(Undergraduate).
Cumulative GPA: 4.30/4.30, Course Average: 99%.

Hangzhou Foreign Language School, Zhejiang, China *Sep. 2014 - Jun. 2017*
Examinations: General Certificate of Education A-Level(CIE). Advanced Placement(AP).
Activities: Co-founder of HwHumans Student Platform.

SCHOLARSHIPS & AWARDS

Dean's List Scholar(2018-19) *Jun. 2019*
International Experience Award *May.* 2019
(from Killam American Fund for International Exchange)
Dean's List Scholar(2017-18) *Jan. 2018*

ACTIVITIES & PROJECTS

Patient Data Analysis on PANSS Dataset *Jun.2019 - Aug.2019*
The Final Project for STATS202 at Stanford University (Final Report Class Top)
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.

Artificial Neural Networks in Economic Forecasting *May. 2018 - Jun. 2019*
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 - Jun. 2019*
Supervisor: Robert J. McCann
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.

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.

SKILLS

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.