Tianyu Du

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

Contacts

Phone:	+1 647-886-7951
University email	tianyu.du@mail.utoronto.ca
Personal Site:	www.TianyuDu.com
Github:	https://github.com/TianyuDu

Educations

Sep. 2017 - Jun. 2020 (Expected)
University of Toronto, Toronto, Canada.
Honours Bachelor of Science
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 - Aug. 2019
Stanford University, California, United States.
Summer Session, Intensive Studies Program in Data Science
Courses: Machine Learning (Graduate), Data Mining and Analysis (Graduate), Theory of Probability (Undergraduate).

Sep. 2014 - Jun. 2017
Hangzhou Foreign Language School, Hangzhou, China.
General Certificate of Education, A Level by Cambridge International Examinations
Advanced Placement (AP)

Jul. 2016
University of Toronto, Toronto, Canada.
Summer Session

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

- Computational Economics, Game Theory, and Market Design.
- Machine Learning Methods and their Applications on Time Series Forecastings and Causal Inferences.

Activities

May. 2018 - Present. **Artificial Neural Networks in Economic Forecasting**
Independent Research
Evaluating and comparing the relative performances of neural networks and traditional models on time series forecasting.

May. 2019 - Jun. 2019 **Independent Reading in Mathematics: Mathematical Economics**
Supervisor: Robert J. McCann
Reading in microeconomic theories with rigorous mathematical proofs.

Sep. 2018 **CIBC Machine Intelligence Hackaton**
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 (Proficiency); R (Proficiency); Matlab (Intermediate); Mathematica (Intermediate); STATA (Intermediate); Bash Programming (Intermediate).
- 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.