

Tianyang Li

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LINKS

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COURSEWORK

GRADUATE

Stochastic Processes (A+)
 Methods of Applied Statistics (A+)
 Probabilistic Machine Learning (A+)
 Statistical Computation (A+)

UNDERGRADUATE

Theory of Statistical Practice (A+)
 Machine Learning (A+)
 Methods of Data Analysis (A+)
 Probability (A+)
 Real Analysis (A+)
 Chaos, Fractals and Dynamics (A+)
 Ordinary Differential Equations (A+)
 Linear Algebra (A+)
 Calculus (A+)

SKILLS

PROGRAMMING

Julia • Matlab • Octave
 Python • R • Stata

DATA SCIENCE LIBRARIES

Numpy • Pandas • Sci-kit Learn

OTHERS

L^AT_EX

EDUCATION

UNIVERSITY OF OXFORD | OCT 2021 – AUG 2022 (EXPECTED)
 Master of Science, Mathematical Sciences

UNIVERSITY OF TORONTO | SEP 2017 – JUN 2021
 Honours Bachelor of Science (High Distinction), Statistics & Mathematics (Minor)
 • Cum. GPA: 3.97/4.00, course average: 94%.

PEKING UNIVERSITY | JUN 2019 – JUL 2019
 Summer Exchange, Modern Machine Learning in Practice
 • Project: Amazon Employee Access Challenge

HONOURS

Jun 2021	Walter Neil Thompson McKay Scholarship
Dec 2020	Faculty of Arts & Science Alumni & Friends Undergraduate Scholarship
Aug 2020	Joseph Wesley MacCallum Scholarship
Dec 2018	Samuel Beatty In-Course Scholarship
Nov 2018	Lawrence And Sharen Ho International Scholarship
Oct 2018	James Morrow Scholarship
2017-20	Dean's List Scholar (All Semesters at University of Toronto)

RESEARCH EXPERIENCE

REAL-WORLD APPLICATION OF TRUE POSTERIOR APPROXIMATION | MAR 2020

We implemented a variant of the TrueSkill model using gradient-based stochastic variational inference, optimized the approximate posterior to estimate the true posterior with tennis match outcomes and analyzed the framework of athletes' skill sets.

TD ROTMAN FINHUB TDMDAL HACKATHON | FEB 2020

Finalist Group (Top 5)

We developed a dictionary-based NLP platform to extract information from transcripts of earning calls of S&P 500 companies, and predict stock price fluctuation on the next trading day.

AMAZON EMPLOYEE ACCESS CHALLENGE | JUL 2019

Supervisor: Zhirong Yang

We built model to determine access needs of employees to minimize human intervention in this process.

TEACHING EXPERIENCE

METHODS OF DATA ANALYSIS | TUTOR | JAN 2021 – APR 2021

THE PRACTICE OF STATISTICS | TUTOR | MAY 2020 – DEC 2020

CALCULUS II | TEACHING ASSISTANT | JAN 2019 – APR 2019

CALCULUS I | TEACHING ASSISTANT | SEP 2018 – DEC 2018