

TONY XU

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Linkedin Profile

EDUCATION

Honours Bachelour of science, Mathematics and Statistics Co-op

2021 - present

Mcmaster university

Relevant coursework:

- Mathematical Scientific computation,
- Probability
- Ordinary differential equation
- Statistical Inference
- Introduction to modelling
- Applied linear regression with SAS
- Introduction to machine learning and multivariate analysis

ACADEMIC PROJECTS

Python

September 2022

- Implemented the random search, coordinate search, coordinate descent and gradient descent algorithms using the numpy and matplotlib packages.

R

September 2024

- Used dimensionality reduction techniques such as PCA and FA in exploratory data analysis.
- Used Supervised learning methods such as k-nearest neighbours, classification trees and random forests to explain data
- Used Logistics regression to obtain the odds ratio to interpret data.

VOLUNTEER EXPERIENCES

Research Assistant

July 2024 - August 2024

- Third author in Computational Measures of Gaze Behavior Using the Concept of Situational Awareness with instructor: Qing Xu.
- Read various documentations in the field of partial information decomposition to give feedback and corrections.
- Helped typeset the \LaTeX document.

SKILLS

Technical skills: Microsoft Office, SAS, MATLAB, Git

Programming software: Python, Elementary C++, R, and \LaTeX

Languages: Fluent in English and Mandarin.