

TONY XU

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Linkedin Profile

EDUCATION

McMaster university, Hamilton

2021 - present

B.S. in Mathematics & Statistics

Relevant coursework: Mathematical Scientific computation, Probability, Ordinary differential equations, Statistical Inference, Introduction to modelling, Applied linear regression with SAS.

PROJECTS

C++

May 2019

- Computed the fibonacci sequence.
- Programmed a calculator in C++.
- Rock paper and scissors game.

Python projects

September 2022

- Created plots using pyplot.
- Computed matrix operations using 2×2 for loop and lists.
- Computed the Reimann sums using functions, for loops and while loops.
- Computed Cayley tables using for loops and functions.
- Computed Buffon's needle to show that Buffon's needle estimates π when the sample size approaches infinity.

MATLAB

September 2022

- Applied the simplex method to a set of variables.
- Computed matrix products.
- Computed eigenvalues.
- Implemented the Gram-Schmidt method .
- Computed the QR factorization of a matrix.
- Computed the orthogonal projections of a matrix.
- Computed the Singular value decomposition.

L^AT_EX

Present

- Used L^AT_EX for every homework that requires a mathematical proof from second year to present. (30+ homeworks)
- This resume is compiled using L^AT_EX.

EXTRACURRICULARS / VOLUNTEER EXPERIENCES

High school band, Windsor ON

September 2018 - June 2021

- Became proficient with the clarinet and guitar over the course of 3 years.
- Performed in several smaller projects within the band.
- Performed at the Windsor Spitfire games with the entire band.
- Maintained a good relation with the band conductor (high school music teacher) by seeking advices on performing and giving constructive criticism on the entire band.

SKILLS

Technical skills: Microsoft office (word, excel and power-point), SAS, MATLAB

Computational Languages: Python, beginner C++, R, and \LaTeX

Linguistic Languages: Fluent in English and Mandarin.