

FELIX SHIER

@ f.shier@queensu.ca

+1 (613)-761 0440

felixshier.github.io

linkedin.com/in/felixshier

github.com/felixshier

EDUCATION

Bachelor of Applied Science

Queen's University

Sept. 2017 – Apr. 2022

Kingston, ON

- Major in Mathematics and Engineering with Professional Internship, Option in Computing and Communication

Relevant Coursework: Probability I-II Data Structures Calculus I-III
Signals/Systems Linear Algebra I-II Control Theory Economics

EXPERIENCE

Data Analyst Volunteer

Earth.Org

July 2021 – August 2021

Hong Kong (remote)

- Conducted a statistical analysis on the occurrences and costs of global natural disasters over the past four decades.
- Packages Used: Numpy Pandas Matplotlib

Course Developer

Department of Mathematics and Statistics, Queen's University

June 2021 – August 2021

Kingston, ON (remote)

- Developed educational course material and MATLAB software for APSC 200, a design course for second year Mathematics and Engineering students at Queen's University.
- Technologies Used: MATLAB LaTeX

Tax Analyst

Deloitte

May 2020 – June 2021

Waterloo, ON (remote)

- Advised and supported companies in procuring government investment incentives for their scientific research and experimental development (SRED) activities, strategic initiatives, and technical projects.
- Collaborated with technical teams to build technical reports and presentations to demonstrate technological developments for SRED claims within technology, media, and telecom industries.
- Technologies Used: MS Word MS Excel MS PowerPoint

Tree Planter

Havemen Brother's Forestry Services

May. 2018 – July. 2019

Kakabeka Falls, ON

- Planted a total of 311,780 trees over 97 days for an average of 3,214 trees per day.
- Tools Used: Shovel Bags

TECHNICAL SKILLS

Languages

Python MATLAB SQL HTML

Python Packages

Numpy Pandas Matplotlib
TensorFlow Keras Scikit-Learn
SciPy NLTK BeautifulSoup

Other Technical Skills

Git MS Office Technical Writing

EXTRA-CURRICULAR

Signal Processing Team Member Merlin Neurotechnology Club

- Alpha-Light:** Configured elements in a smart home environment using the Internet of Things and deconstructed brain waves from real-time raw EEG signals.
- Blink-Detection:** Developed a Sequential 1-Dimensional Convolutional Neural Network trained on a dataset of EEG signal intervals to detect blinks with an accuracy of 95%.
- Packages Used: TensorFlow Scikit-Learn
Numpy Pandas Keras SciPy

Data Science Team Member Betalab

- Meeting Minutes:** Developed an unsupervised extractive model using sentence embedding and feature-space analysis techniques to summarize natural language texts.
- Articles:** Wrote and edited tutorials and articles relating to data science topics.
 - Article 1: Web Scraping with Python.
 - Article 2: Introduction to Artificial Neural Networks.
- Packages Used: BeautifulSoup4 NLTK
Scikit-Learn TensorFlow Keras

Machine Learning Certificate Stanford (Coursera)

- Introduced to machine learning, datamining, and statistical pattern recognition concepts including various learning algorithms, best practices, and industry applications.