

Finlay Korol-O'Dwyer

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Professional Profile

Emerging data professional. Holistic thinker. Lifelong learner. Problem-solver. Expertise in integrative approaches to research. Skilled at analysis and asking complex questions. Passionate about creating and applying data-driven solutions and compartmentalizing large projects through planning and collaboration.

Education

Bachelor of Information

2024

Faculty of Information, University of Toronto
Data Science & Information Studies (2022-2024)

(expected)

School of Interdisciplinary Science, McMaster University
Integrated Science & Physics (2019-2021)

Divert NS Champion of the Environment Scholarship (2019)
McMaster University President's Award (2019)
Dean's List

Representative Courses: Worlds Become Data, Climate Change, Sustainable Energy in Challenging Environments, Plant/Animal Interactions, Computational Reasoning, Scientific Computing

Selected Projects

Heart Failure Predictive Model

2022

iXperience Data Science & AI Micro-Internship

- Cleaned and analyzed heart failure data using ML models.
- Identified risk factors indicating early risk of heart failure.

Wind Assessment of McMaster University

2020

Course Project (ISCI 1A24 Climate Change)

- Conducted analysis of weather station data in Excel.
- Reviewed wind turbine specs for maximum power output in study conditions.
- Formulated a recommendation for McMaster University.

Professional Experience

Student Researcher

2021

Nova Scotia Health Authority

- Conducted literature review on healthcare applications of generative adversarial networks (GANs) and their metrics.
- Directed hyperparameter tuning and managed battery of metrics.
- Conducted virtual experiments and consulted with my supervisor on network adjustments.
- Wrote and presented our findings at NS Health conference.

Selected Papers

Stevens, T., & Korol, F.J. (2023) Quantitative Metrics for Evaluating Computed Tomography Images by Generative Adversarial Networks. *Research paper, submitted for publication*. [[available](#)]

Korol, F. (2023). A Spatial Look at Toronto Apartment Building External Maintenance. *Course Paper, INF312 — Worlds Become Data*. [[available](#)]

Des Vignes, G., Golding, E., Korol-O'Dwyer, F., & O'Keefe, P. (2020). Ethylene Stimulated Growth and Plant Defence Effects due to Artificial Wind on Glycine Max, *Course Paper, ISCI2A18 – Plant-Animal Interactions*. [[available](#)]

Volunteer Experience

Peer Tutor

2021

McMaster Undergraduate Physics Society Physics Help Initiative

Third Year Representative

2021

McMaster University Integrated Science Society

Additional Experience

Barista & Barista Trainer

2018 - 2022

Starbucks, Sydney, NS & Hamilton, ON

Skills and Qualifications

Integrative research

MS Excel

French (DELF B2)

Regression

R

Spanish (conversational)

Cluster Analysis

Python

Rock climbing

Machine Learning

C++

Tennis

Qualitative analysis

Matlab

Technical writing and communication

SQL

iXperience Data Science & AI certificate