Wisang Sugiarta

(438) 830-2518 • wisang.sugiarta@mail.mcgill.com • Montreal, Canada

SUMMARY OF SKILLS AND QUALIFICATIONS

Programming | R • C++ • Java• Python • Matlab • OCaml

Languages | French | Spoken & Written • English | Spoken & Written |

EDUCATION

Master of Science – Computer Science

2022

Quebec Artificial Intelligence Institute (MILA) and Université de Montréal

- Advisor: Emma Frejinger
- Focus/Thesis: Machine learning in operations research.
- GPA: TBD.

Bachelor of Science - Double Major in Computer Science and Physics

2021

McGill University, Montreal, QC

Final 60-Credit GPA: 3.78

DEC in Honours Pure and Applied Sciences

2017

Dawson College

• Graduated Dean's list.

WORK EXPERIENCE

M.Sc Researcher

September 2021- May 2022

Quebec Artificial Intelligence Institute (MILA)

• Use machine learning methods for operations research in path planning and transportation optimization.

Data Engineering Intern

January 2021- May 2021

Bureau des données clinico-administratives, INESSS, Gouverment of Québec

- Use machine learning methods (deep learning) and data visualization to predict hospitalization and death rates of the subregions in Quebec.
- Help prepare presentations and reports of the SARS-COVID-19 pandemic predictions to inform the Minister of Health and Social Services whose department decides on necessary health policy.

Computational Physics Researcher

February 2020 – January 2020

Cedars Cancer Centre, McGill University Health Center, Montreal

- Implementing deep learning methods (CNNs) to create software that segments cancer cells from healthy cells and fast radiation dose calculations.
- Analysis of the radiation therapy Monte Carlo simulation software to compare RBE of patient specific cell size distributions and other quantities.

National Lifesaving Instructor and Pool Coordinator

2017 - 2020

Kuujjuaq Pool (Coordinator, Summer 2020)

• Implementing and instructing lifesaving candidates on the procedures and regulations of the Canadian National lifesaving program.

ACADEMIC PROJECTS AND RESEARCH

Microdosimetric Analysis of the Relative Biological Effectiveness of Alpha and Beta Radiation Using 3D Tissue Specific Tumor Models *(Under review at IJRO) 2020

Medical Physics Unit, McGill University, Montreal, QC

• Objective: The aim of this study is to determine microdosimetric quantities and make predictions of RBE using tissue models containing the same cell and nucleus size distributions as found using computer vision in a patient's histopathological sample and Monte Carlo based simulation using inhouse software.

Radioactive Decay and Counting Statistics published in the McGill Physical Journal

2019

McGill University, Montreal, QC

• Objective: study the statistics and behavior of a decaying radioactive isotope decay using a Geiger counter to detect energetic particles emitted form the nucleus of a radioactive 137Cs sample.

PROFESSIONAL ASSOCIATIONS

Contributor Sept 2019– present

McGill Al Society

Help run tutorials for lower undergraduate students looking to get into machine learning.

Contributor Sept 2018– 2020

The McGill Tribune (Science Section)

Bi-Monthly contributor writing opinion articles and/or public-friendly science articles.

VOLUNTEER WORK

CEGEP Math Tutor

September 2017-present

Dawson College

Hold 3 hour office hour to tutor CEGEP math courses (Calculus I, II and Linear Algebra).

Assistant Coach

September 2018-September 2020

NDG Minor Hockey, Midget A

• Help run practices and games for younger NDG teams.

INTERESTS

Experience Abroad Spent months in Taiwan, Indonesia, USA and Western Canada

Sports Current Junior A Hockey team, Rock Climbing

Passions Adventure, Politics, Machine Learning and Environment