Megan Cvitan

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EDUCATION

MCMASTER UNIVERSITY

MSc. in Physics and Astronomy Expected Dec. 2022 | Hamilton, ON Supervisors: Dr. Lennarz and Dr. Chen

MCGILL UNIVERSITY

BSc. IN PHYSICS.

MINOR IN COMPUTER SCIENCE Graduated Dec. 2020 | Montreal, QC

ST. ALOYSIUS GONZAGA

OSSD. FRENCH IMMERSION CERT. Graduated 2016 | Mississauga, ON

COURSEWORK

GRADUATE

Nuclear Physics Accelerator Physics

UNDERGRADUATE

Electromagnetic Waves Thermal and Statistical Physics Algorithms and Data Structures Computer and Software Systems Experimental Methods Computational Physics Bayesian Statistics Quantum Mechanics Modern Physics Classical Mechanics

SKILLS

PROGRAMMING

Proficient:

Python • LaTeX • Java • C • Bash Git • SPICE • KiCad • SolidWorks Familiar:

HTML • OCaml • MATLAB • Arduino

LANGUAGES

Native. English • Croatian Proficient: French

INTERESTS

Track and Field • Painting • Satellites and Space Exploration • Chess • Nature and **Animals**

REFERENCES

PROF. THOMAS BRUNNER

thomas.brunner@mcgill.ca

PROF. CYNTHIA CHIANG

hsin.chiang@mcgill.ca

PROF. DARYL HAGGARD

daryl.haggard@mcgill.ca

RESEARCH

MCGILL SPACE GROUP

JUNE 2020 - PRESENT | MONTREAL, QC High Altitude Balloon Project, Mission Anseris I

MCGILL UNIVERSITY

MAY 2019 - AUGUST 2019 | MONTREAL, QC

Characterizing VUV Light Sources for SiPM Testing with Prof. Thomas Brunner

January 2020 - April 2020 | Montreal, QC

Development of a Soil Conductivity Meter for Antenna Signal Corrections in MIST with Prof. Cynthia Chiang

SEPTEMBER 2019 - DECEMBER 2019 | MONTREAL, QC

Calculating the Black Hole Mass of Blazar PKS 1502+106 from Different Epochs' Optical Spectra with Prof. Daryl Haggard

WORK EXPERIENCE

MCGILL UNIVERSITY

JULY 2020 - DECEMBER 2020 | MONTREAL, QC

Undergraduate Assistant Laboratory Technician

Redeveloped the PHYS 439/469 courses by making the experiments interactive and accessible for remote instruction.

MCGILL SPACE GROUP

OCTOBER 2019 - PRESENT | MONTREAL, QC

Communications Subteam Leader

Selecting proper hardware and developing software for a prospective Low Earth Orbit Earth-imaging 3U-CubeSat device that will compete in the Canadian Satellite Design Challenge. Prepared and attended a Critical Design Review presentation in front of a panel of industry professionals

SEPTEMBER 2018 - OCTOBER 2019 | MONTREAL, QC

Communications Subteam Member

Designed the antenna whilst utilizing efficient, low-power transceivers in consideration of the satellite link budget.

MCGILL SOCIETY OF PHYSICS STUDENTS

MAY 2019 - MAY 2020 | MONTREAL, QC

Vice President of Events

Represented undergraduate physics students as a whole to external organizations including the McGill administration, the Science Undergraduate Society, other McGill departments, and other universities.

HALTON HEALTHCARE

JANUARY 2016 - SEPTEMBER 2016 | OAKVILLE, ON Oakville Trafalgar Memorial Hospital Volunteer

AUGUST 2014 - JANUARY 2016 | GEORGETOWN, ON

Georgetown Hospital Medical/Surgical Unit Volunteer

HONOURS AND AWARDS

Academic All-Canadian Award 2019-2020

Women in Physics Canada Conference 2018 Travel Award

Ontario Scholar 2016

Junior Leadership Award 2016

INVOLVEMENTS

2016-2020	McGill Varsity Track	and Field

McGill STEM Support Committee • 50+ hours 2018-2019

McGill Physics Makerspace Founding Member 2018-2019

Region of Peel Family Literacy Facilitator • 200+ hours 2014-2016

Prefect of Student Voice and Communications • 100+ hours of service 2014-2016