

Megan Cvitan

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EDUCATION

MCGILL UNIVERSITY

BSc. IN PHYSICS,
MINOR IN COMPUTER SCIENCE
Expected Dec. 2020 | Montreal, QC

ST. ALOYSIUS GONZAGA

Graduated 2016 | Mississauga, ON

COURSEWORK

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 - SEPTEMBER 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
CFREF McDonald Institute Award
Women in Physics Canada Conference 2018 Travel Award
Ontario Scholar 2016
Junior Leadership Award 2016

INVOLVEMENTS

2016-2020 McGill Varsity Track and Field
2018-2019 McGill STEM Support Committee • 50+ hours
2018-2019 McGill Physics Makerspace Founding Member
2014-2016 Region of Peel Family Literacy Facilitator • 200+ hours
2014-2016 Prefect of Student Voice and Communications • 100+ hours of service