Maëlle Magnan

♥ Toronto, Ontario, Canada

in maëlle-magnan

Education _____

University of Toronto

Honours Bachelors of Science (Astronomy and Physics Specialist, Mathematics Minor)

École Monseigneur de Laval Pavillon Secondaire

Bilingual High School Diploma

Toronto, ON, Canada 2022-2026 (Expected)

Regina, SK, Canada 2018 - 2022

Toronto, ON, Canada Aug 2024 - Present

Experience _____

Environment and Climate Change Canada

Data Analyst

- · Analyzing environmental regulations to extract, catalog, and standardize compliance variables across multiple governmental frameworks and developing a VBAbased search algorithm to efficiently sort and cross-reference these regulations.
- Collaborating with a multidisciplinary team to create controlled variable repositories, streamlining onboarding processes for new regulations.

Toronto, ON, Canada

Sept 2024 - Present

Practical Astronomy

AST 326

- Completing labs on photon statistics, radio astronomy, astronomical spectroscopy, supernova light curves, and 21cm astronomy.
- Performing statistical modeling using techniques such as linear regression, chisquared statistics, Fast Fourier Transforms, centroiding, and time series analysis.
- Calibrating precision instruments including CCD/CMOS detectors, radio receivers, and spectroscopes to ensure accurate and reliable data collection.

University of Regina

Research Assistant

- Developed a pipeline in **Python** to analyze **satellite images** to assess the alarming exponential growth in satellite-caused light pollution and its adverse effects on astronomical imaging.
- Presented research findings during weekly meetings, effectively communicating complex data to peers and faculty.

Regina, SK, Canada Feb 2023 - Sept 2023

Awards ____

New Technologies for Canadian Observatories Create Grant

• \$ 8000, awarded to up to 70 undergrad and graduate students across Canada/year

NSERC

Howard Furguson Scholarship

• \$ 3000, entrance scholarship

University College, **University of Toronto**

2022

Technical Skills

Proficient in Python, specifically in astronomical data analysis. Experience using LATEX for academic and professional document formatting, as well as Linux command-line operations. Native French and English speaker.

Presentations .

Steadily increasing light pollution from artificial satellites in the night sky worldwide, and in astronomical observations

Virtual October 2023

AAS Division for Planetary Sciences Annual Meeting

dent life and research opportunities.

Samantha Lawler, Aaron Boley, *Maëlle Magnan*, Hanno Rein, Mike Alexandersen, Ying-Tung Chen, Wesley Fraser, Rosemary Pike

2023DPS....5511509L ℃

Volunteer Work _____

Collective Undergraduate Research Experience, University of Toronto Event Director and Undergraduate Research Advisor

Toronto, ON, Canada 2024 - Present

- Hosting one-on-one mentorship meetings answering questions relating to stu-
- Organizing events focused on engaging students in the undergraduate research community (resume review sessions, undergraduate research presentations, coffee with professors, etc).

French and Francophone Student Association, University of Toronto Equity, Diversity and Inclusivity Director

Toronto, ON, Canada 2024 – Present

• Directing Equity, Diversity, and Inclusion (EDI) initiatives fostering an inclusive community and promoting cultural representation.

Employment History _____

Craft Beer Market

Server

Toronto, ON, Canada Mar 2024 – Aug 2024

- Memorized over 100 craft beers and various cocktails to provide tailored recommendations.
- Worked together with the rest of the FOH and BOH teams to orchestrate seamless service flow.

Hamers Coffee

Barista

Toronto, ON, Canada Feb 2023 – May 2023

- Provided friendly service to build strong customer relationships.
- Memorized multiple artisanal coffee blends and prepared numerous beverages efficiently and accurately.
- Performed closing duties including dishes, cash-out, and cleaning protocols.

Fresh and Sweet

Server

Regina, SK, Canada Aug 2019 – Aug 2022

- Delivered fast and friendly service to all patrons.
- Trained new staff members on restaurant protocols, proper food delivery, and guest service expectations .
- Performed opening and closing duties, including restocking supplies, daily cash in/out, and handling large sums of money.