

CAMILLE PAULE

+ (647) 931 - 3757
camille.paule@mail.utoronto.ca

EDUCATION **University of Toronto** Toronto, Canada
Honours Bachelor of Science (Astronomy, Physics, and Mathematics) 2022 – 2026

Baccalauréat Général, Lycée La Favorite Sainte Thérèse Lyon, France
AP Mathematics, Physics and Chemistry, With Highest Distinction 2018 – 2022

Brevet d'Initiation à l'Aéronautique, With Distinction:

- Year-long course on the basics of **aeronautics and meteorology**, ultimately leading to a standardized test and a diploma.

EXPERIENCE **Research Assistant (SURF)** May 2025 – Present
Supervisor : Prof. Hanno Rein

- Conducted a SURF-funded project on improving numerical simulations of small bodies in the Solar System.
- Tested a novel pair-wise timestepping algorithm for adaptive integrators using REBOUND and ASSIST.
- Aimed to enhance accuracy in close-encounter scenarios between objects like asteroids and comets.

AST326 : Practical Astronomy 2024 – Present
Toronto, Canada

- **Experience with advanced detectors** such as CMOS/CCD cameras, heterodyne receivers, and spectrographs.
- Proficient in **statistical modelling**, including chi-squared, Poisson, and Gaussian statistics, centroiding, Fast Fourier Transforms, and time series analysis.
- Completing labs on photon statistics, radio astronomy, spectroscopy, supernova light curve analysis, and 21 cm astronomy.
- Developed essential **experimental skills**, including data collection and documentation for comprehensive lab reports.

AWARDS • **International Merit Admission Award**, Faculty of Arts and Sciences (UofT) 2022
Entrance scholarship of \$50,000 recognizing outstanding academic achievement for international undergraduate students.

• **Natalia Krasnopskaia Memorial Summer Undergraduate Research Fellowship (SURF)**, Department of Physics (UofT) 2025
Fellowship of \$3,750 supporting full-time research in physics over the summer; awarded to a limited number of undergraduate students in Physics-related programs.

SKILLS **Languages:** French (Native), English (Native), Spanish (B2 level).
Programming: Python (Proficient), L^AT_EX (Proficient), R (Intermediate).

VOLUNTEER WORK	Astronomy Union (AU) <i>Vice-President of Events and Social Media</i>	May 2025 – Present
	<ul style="list-style-type: none"> • Organizing and advertising events such as research opportunity panels, mentoring sessions, networking events, and colloquium-style talks, while managing the union's social media to foster an inclusive and engaged undergraduate community. 	
	Physics Help Initiative (PHI) <i>Engagement Director</i>	January 2025 – Present
	<ul style="list-style-type: none"> • Creating engaging multimedia content on various everyday-relevant physics topics for a broad outreach audience. 	
	French and Francophone Student Association (FFSA) <i>Founder and President</i>	September 2024 – Present
	<ul style="list-style-type: none"> • Organizing cultural and social events to celebrate Francophone culture. • Founder and creator of a student association of 50+ members to foster connections among francophone students at UofT. 	
	AstroTours <i>Volunteer</i>	October 2025 – Present
	<ul style="list-style-type: none"> • Assisting with event setup, welcoming guests, and supporting activities such as telescope observing sessions and public lectures. 	
	Science Rendezvous <i>Volunteer</i>	May 2024
	<ul style="list-style-type: none"> • Led interactive workshops designed for children, introducing chemical reactions and thermodynamics via the cotton candy example to promote the fields of STEM. 	

EMPLOYMENT HISTORY	Communications and Education Specialist, Discover the Universe <i>Toronto, Canada</i>	March 2025 – Present
	<ul style="list-style-type: none"> • Supporting educational astronomy projects for Canadian teachers through content development and outreach • Managing bilingual (EN/FR) social media accounts and creating weekly science communication posts for beginners. 	
	Server, Edna + Vita <i>Toronto, Canada</i>	March 2024 – May 2025
	<ul style="list-style-type: none"> • Developing my time management and teamwork skills in meeting the demands of a high-pressure environment. 	
	Private Tutoring <i>Toronto, Canada</i>	March 2021 – Present
	<ul style="list-style-type: none"> • Creating tailored lesson plans in Mathematics, Physics and French for a dozen students aged 8-15 years old. 	
	Intern, EuroSpace Center <i>Libin, Belgium</i>	May 2019
	<ul style="list-style-type: none"> • Led space domain workshops, including rocket-building engineering and explorations of cosmological challenges. • Participated in the organization of conferences with space-domain experts. 	