

Employment History

- 2024 –

Sum. of 2022

2021-2023

2019-2020

 - **College teacher in physics**, Physics and Geology Department, Cegep Montmorency.
 - **Intern at iREX**, Trottier Institute for Research on Exoplanets, Université de Montréal.
 - **Specialized Astronomy Guide**, ASTROLab du parc national du Mont-Mégantic.
 - **Physics Tutor**, Cégep de Saint-Laurent.

Education

- 2017 – 2020 **Double DEC in natural science and music, Cégep de Saint-Laurent**

2020 – 2023 **Undergrad studies in physics, Université de Montréal**

2023 – 2025 **M.Sc. Astrophysics, Université de Montréal** in exoplanet research.
Thesis title: *Instrumental Symbiosis at Different Wavelength Regimes for the Detection of Exoplanets Using the Radial Velocity Method.*

Research Publications

Journal Articles

- 1 L. Albert, D. Lafrenière, R. Doyon, *et al.*, “The near infrared imager and slitless spectrograph for the james webb space telescope. iii. single object slitless spectroscopy,” *Publications of the Astronomical Society of the Pacific*, vol. 135, no. 1049, p. 075 001, Jul. 2023, ISSN: 1538-3873. DOI: [10.1088/1538-3873/acd7a3](https://doi.org/10.1088/1538-3873/acd7a3).

Conference Proceedings

- 1 É. Artigau, F. Bouchy, R. Doyon, *et al.*, “Nirps first light and early science: Breaking the 1 m/s rv precision barrier at infrared wavelengths,” in *Ground-based and Airborne Instrumentation for Astronomy X*, J. R. Vernet, J. J. Bryant, and K. Motohara, Eds., SPIE, Jul. 2024, p. 12. DOI: [10.1117/12.3018994](https://doi.org/10.1117/12.3018994).
 - 2 L. Malo, F. Baron, A.-S. Poulin-Girard, *et al.*, “Nirps near-infrared spectrograph: Ativ phase at eso3.6m/la silla,” in *Ground-based and Airborne Instrumentation for Astronomy X*, J. R. Vernet, J. J. Bryant, and K. Motohara, Eds., SPIE, Jul. 2024, p. 159. DOI: [10.1117/12.3020168](https://doi.org/10.1117/12.3020168).

Skills

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| Languages | Strong reading, writing and speaking competencies for English and French. |
| Coding | Python, L ^A T _E X, ... |
| Packages | Juliet, radvel, spleaf, george, celerite, emcee, dynesty, jax, lightkurve, scikit-learn, PyTorch |
| Misc. | Academic research, teaching, L ^A T _E X typesetting and publishing. |

Miscellaneous Experience

Awards and Scholarships

- 2023  **Hubert Reeves Scholarship.** For highest potential in astrophysics research at Université de Montréal.
- 2022  **Trottier Research Excellence Scholarship.** Competition across Canada for internship at the Trottier Institute for Exoplanet Research.
- 2020  **Athlete Excellence Scholarship.** Athlete at Cegep de Saint-Laurent with the highest grades.

Implications

- 2024  **Mentor for InitiaSciences.** Supervise four cegep student working with me on my master's research project.
-  **Science popularization training for researchers.** On two occasions (in 2022 and 2024), I gave popular science training to researchers at the Université de Montréal to teach them how to show the night sky to the general public during the Perseid meteor shower.
-  **Astrophysics discovery event.** Hosting a time request activity for the James Webb Telescope.
- 2023  **Popularizing the eclipse at AstroMIL.** Host an eclipse activity at a kiosk during the AstroMIL event on October 17 2023.
-  **Organization of the physics games.** Organize a weekend event for all physics departments in the province of Quebec.
- 2022  **Mentoring for high school students.** Helping high school students prepare their science fair on the James Webb Space Telescope.
- 2020  **Science popularizer at Projet Montréal Scientifique.** Running interactive science workshops in an elementary school classroom.

References

Available on Request