

Pierrot Lamontagne, Ph.D. candidate

 lamontagne@iaa.es

 Academic website

 Google Scholar

 LinkedIn

Employment History

- Sep.–Dec. 2025  **Research assistant**, Trottier Institute for Research on Exoplanets, Université de Montréal.
- Winter 2024  **College teacher in physics**, Physics and Geology Department, Cegep Montmorency.
- Sum. of 2022  **Intern at iREX**, Trottier Institute for Research on Exoplanets, Université de Montréal.
- 2021–2023  **Specialized Astronomy Guide**, ASTROLab du parc national du Mont-Mégantic.
- 2019–2020  **Physics Tutor**, Cégep de Saint-Laurent.

Education

- 2025 –  **Ph.D. Astrophysics, IAA-CSIC, Universidad de Granada** in exoplanet research as part of the THIRSTEE project.
- 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*.
[Available online]
- 2020 – 2023  **Undergrad studies in physics, Université de Montréal**
- 2017 – 2020  **Double DEC in natural science and music, Cégep de Saint-Laurent**

Scientific Contributions

First-authored Publications

- 1 **P. Lamontagne**, D. Weissman, C. Cadieux, *et al.*, “Nirps tightens the mass estimate of gj 3090 b and detects a planet near the stellar rotation period,” 2026, Submitted to A&A. arXiv: 2601.09330 [astro-ph.EP].  URL: <https://arxiv.org/abs/2601.09330>.

Co-authored Publications

- 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.
- 2 A. Suárez Mascareño, É. Artigau, L. Mignon, *et al.*, “Diving into the planetary system of proxima with nirps: Breaking the metre per second barrier in the infrared,” *Astronomy & Astrophysics*, vol. 700, A11, Jul. 2025, ISSN: 1432-0746.  DOI: 10.1051/0004-6361/202553728.
- 3 C. Cadieux, A. L’Heureux, C. Piaulet-Ghorayeb, *et al.*, “Detailed architecture of the l 98-59 system and confirmation of a fifth planet in the habitable zone,” *The Astronomical Journal*, vol. 170, no. 3, p. 154, Aug. 2025, ISSN: 1538-3881.  DOI: 10.3847/1538-3881/adef59.

- 4 L. Parc, F. Bouchy, N. J. Cook, *et al.*, “Nirps and tess reveal a peculiar system around the m dwarf toi-756: A transiting sub-neptune and a cold eccentric giant,” *Astronomy & Astrophysics*, vol. 702, A138, Oct. 2025, ISSN: 1432-0746. DOI: 10.1051/0004-6361/202555684.

Talks & Posters

- 1 **P. Lamontagne**, *Presentation on the james webb space telescope*, Invited talk at Le Festival d’astronomie populaire du Mont-Mégantic, Astrolab du Parc National du Mont-Mégantic, 2022.
- 2 **P. Lamontagne**, *Joint analysis of harps and nirps radial velocities: An application on the gj 3090 system*, Poster presented at The Sixth Workshop on Extremely Precise Radial Velocities (EPRV 6), Instituto de Astrofísica e Ciências do Espaço, Porto, Portugal, 2025.

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.

Miscellaneous Experience (continued)

- 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