Guillaume Payeur

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About me

I am a Physics Master's student at McGill University, working under the supervision of Robert Brandenberger and Evan McDonough. I love learning, I'm hardworking and committed to my dream of becoming a physicist, and I'm an easy-going and playful person. I've conducted research in theoretical cosmology and in applications of machine learning to physics.

Degrees

Champlain College (CEGEP)
Pure and Applied Science

2017 - 2019

McGill University (BSc)

Honours Math & Physics

2019 - 2023

- GPA: 3.98/4

Publications

- 2. Edward W. Kolb, Andrew J. Long, Evan McDonough, and Guillaume Payeur. Completely dark matter from rapid-turn multifield inflation. Journal of High Energy Physics, 2023(2):181, February 2023 https://link.springer.com/article/10.1007/JHEP02(2023)181
- 1. Guillaume Payeur, Étienne Artigau, Laurence Perreault Levasseur, and René Doyon. Correlated read noise reduction in infrared arrays using deep learning. The Astronomical Journal, 163(6):292, may 2022 https://iopscience.iop.org/article/10.3847/1538-3881/ac69d2

Academic Awards & Scolarships

FRQNT Master's Training Scholarship Amount: 40000\$	McGill University Fall 2023 - Winter 2025
NSERC Canada Graduate Scholarship – Master's program $Amount:~17500\$$	McGill University Fall 2023 - Winter 2024
Trottier Space Institute Graduate Fellowship $Amount: 2000\$$	McGill University Fall 2023 - Winter 2025
First Class Honours in Mathematics and Physics	McGill University Fall 2019 - Winter 2023
NSERC Undergraduate Student Research Award $Amount: 6000$ \$	University of Victoria Summer 2021
Wing Hing Chang Scholarship in Science Amount: 800\$	McGill University $Fall\ 2021$ - Winter 2022
Dean's Honour List	McGill University Fall 2020 - Winter 2021

Bourse Hors UdeM University of Montreal Amount: 4000\$ $Summer\ 2020$ Faculty of Science Scholarship McGill University Amount: 700\$ Fall 2020 - Winter 2021 Dean's Honour List McGill University Fall 2019 - Winter 2020 Dean's List Champlain College Winter 2018 Dean's List Champlain College Fall 2018

Talks

2. Readout Noise & Machine Learning
IREX End-of-Summer Presentations

Completely Dark Matter & the de Sitter Swampland Conjecture
WITP Summer Symposium

Montreal
Summer 2020

Winnipeg
Summer 2022

Teaching

Course Teaching assistant

Gave 3 tutorials and 1 exam review session

Course Teaching assistant

Gave 1 course lecture and 4 tutorials

McGill - PHYS 142 Electromagnetism and Optics

Winter 2024

McGill - PHYS 251 Honours Classical Mechanics 1

Fall 2023

Events

Astromatic 2022 Montreal
Classified in second place Summer 2022