# **Olivier Gilbert**

 Québec, Canada
 ☑ olivier.gilbert.6@ulaval.ca
 ↓ 15815784615
 in olivier-gilbert
 ♠ oliviergilbertulaval

Education \_\_\_

**BSc** Université Laval, Physics

Sept 2022 - Present

- CGPA: 4.13/4.33
- Concentration in astrophysics (required 4 specialized elective courses)

DCS CEGEP de Levis, Natural Sciences

Aug 2020 - May 2022

• R-Score: 32.901

### Experience \_\_

#### Bishop's University, Research Assistant

Advisor: John J. Ruan

Sherbrooke, CA May 2024 – Aug 2024

- Researched morphological link between host galaxies of Quasi-Periodic Eruptions and Tidal Disruption Events.
- Extracted and analyzed images from wide-field surveys.
- Calculated morphological parameters of galaxies from lenstronomy model fitting.
- Used model comparison to determine optimal way to model host galaxies.
- Performed statistical analysis to compare distributions of galaxies.
- Wrote a paper as a first-author. (See the "Publications" section below)

#### Bishop's University, Research Assistant

Advisor: John J. Ruan

Sherbrooke, CA May 2023 – Aug 2023

- Researched physics of accretion disks of low-brightness active galactic nuclei by studying changing-look quasars and their spectral energy distribution.
- Analyzed images from the Hubble Space Telescope and the Chandra X-ray Observatory.
- Reduced spectral data using iRAF.
- Modeled quasars using Sérsic ellipse plus point source fitting with PSF convolution.
- Produced paper-quality figures and tables.
- Wrote a paper as a first-author. (See the "Publications" section below)

#### **Université Laval Foundation**, Programmer

Québec, CA

2022

#### **Publications**

## Using Faded Changing-Look Quasars to Unveil the Spectral Energy Distribution Evolution of Low-Luminosity Active Galactic Nuclei

To be submitted to ApJ

*Gilbert, O.*, Ruan, J. J., Duffy, L., Eracleous, M., Anderson, S. F., Green, P. J., Haggard, D., Plotkin, R. M., Runnoe, J. C., Sobolewska, M.

Draft version 2

## A Host Galaxy Morphology Link Between Quasi-Periodic Eruptions and Tidal Disruption Events

Submitted to ApJ, Sep 2024

Gilbert, O., Ruan, J. J., Eracleous, M., Haggard, D., Runnoe, J. C.

**Volleyball:** Member of an Intramural Team at Université Laval

Scholarships	
<b>Undergraduate Student Research Award (USRA)</b> , National Sciences and Engineering Research Council of Canada (NSERC). \$6000 CAD	May 2024 - Aug 2024
<b>Undergraduate Student Research Award (USRA)</b> , National Sciences and Engineering Research Council of Canada (NSERC). \$6000 CAD	May 2023 - Aug 2023
Presentations	
<b>American Astronomical Society (AAS) 245th Annual Meeting</b> iPoster presentation on Quasi-Periodic Eruptions.	Jan 2025
Skills	
Python: numpy, matplotlib, astropy, scipy, lenstronomy, pandas, etc.	
Other languages: C++, JavaScript, HTML, CSS, C#	
Other tools: LaTeX, SAO DS9, iRAF, HEASARC, CIAO	
Leadership and Public Outreach	
Leadership and Public Outreach  Presentation at Local Astronomy Club Invited presenter for the monthly meeting of a local astronomy club.	Sep 2024

Sep 2022 - Present