Olivier Gilbert

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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.

Scholarships	
Undergraduate Student Research Award (USRA) , National Sciences and Engineering Research Council of Canada (NSERC). \$6000 CAD	May 2024 - Aug 2024
Undergraduate Student Research Award (USRA) , National Sciences and Engineering Research Council of Canada (NSERC). \$6000 CAD	May 2023 - Aug 2023
Presentations	
American Astronomical Society (AAS) 245th Annual Meeting iPoster presentation on Quasi-Periodic Eruptions. NASA/ADS abstract ぱ	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	
Presentation at Local Astronomy Club Invited presenter for the monthly meeting of a local astronomy club.	Sep 2024
Basketball: Captain of an Intramural Team at Université Laval	Sep 2023 - Present
Volleyball: Member of an Intramural Team at Université Laval	Sep 2022 - Present
Media Coverage	

Astrobites Who's Home? A Supermassive Black Hole & its Tiny Friends **௴**

Dec 2024