

GIOVANNI A. GOLLOTTI

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<https://giog13.github.io>

EDUCATION

City University of New York Graduate Center

Master's in Astrophysics

Anticipated May 2027

University of Washington - Seattle

B.S. in Physics & Astronomy (Honors in Astronomy)

Cumulative GPA: 3.56/4.0 (Astronomy GPA: 3.95/4.0)

June 2025

RESEARCH EXPERIENCE

DiRAC Undergraduate Summer Research

Mentors: Anastasios Tzanidakis, Tobin Wainer, & Prof. James Davenport

June 2024 - March 2025

University of Washington

- Assisted two graduate student mentors with analyzing the TESS photometric light curves and radial velocity measurements taken of HIP 23309
- Obtained the epochs, duration, and period between two notable dips in order to determine the mass limits of a proposed substellar companion
- Wrote and submitted a Directors Discretionary Time for the HARPS spectrograph in order to obtain additional RV measurements

“Changing-Look” Quasar Categorization

Mentor: Prof. Scott Anderson

October 2023 - May 2024

University of Washington

- Categorized spectra based on their emission lines and redshifts in order to find more “changing-look” quasar candidates
- Tested the validity of the SDSS pipeline in regards to their calculated redshifts and spectra categorization
- Visually inspected over 100 quasar, galaxy, and star spectra with multiple observational epochs

Template Generation Strategies for Early LSST Operations

Mentor: Prof. Eric Bellm

March 2023 - August 2023

University of Washington

- Developed a metric that tested template generation strategies for LSST's commissioning phase and first operating year
- Plotted number of expected images and sky position onto spatial coverage plots in order to determine the most efficient template generation strategy

FIRST-AUTHOR PUBLICATIONS

1. **“Two Intriguing Transits of HIP 23309 Observed by TESS”**

Gollotti, G., et al. *RNAAS* 8, 293 (2024)

HIGHLIGHTED TALKS & PRESENTATIONS

Small, but Mighty: The Story of the Elusive Red Dwarf

Theodor Jacobsen Observatory (Talk)

June 2025

Seattle, WA

Two Distinct Transits of HIP 23309 Observed by TESS

AAS 245 Meeting (Poster)

January 2025

National Harbor, MD

HIP 23309's Mysterious Light Curve Variability
DiRAC Summer Prize Winner Presentations (Talk)

September 2024
Seattle, WA

Early LSST Template Generation Strategies
Rubin 2023 Project & Community Workshop Conference (Poster)

August 2023
Tucson, AZ

HONORS & AWARDS

Chambliss Student Award Winner	January 2025, 245th Meeting of the AAS
DiRAC Summer Research Prize Winner	\$3,500, Summer 2024
Dean's List	Wi/Su/Au 2023, Wi/Sp/Au 2024, & Wi/Sp 2025

EMPLOYMENT

Post-Baccalaureate Research Assistant (Remote) <i>Department of Physics & Astronomy</i>	May - July 2025 <i>Northwestern University</i>
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- Created automated gridding method that generates cutouts of PHAT-survey images
- Deleted cutouts without data or did not include any stellar clusters
- Sorted stellar cluster catalogs to isolate clusters associated with specific PHAT cutouts

Teaching Assistant <i>UW Robinson Center</i>	July 2024 <i>University of Washington</i>
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- **Class:** From Galileo to Einstein and Beyond
- Collaborated with instructors and fellow TA with creating lesson plans, labs, and grading rubrics
- Demonstrated flexibility and adaptability in the classroom to meet the changing needs of my instructors and students
- Graded middle and high school students' work in a timely manner while giving constructive feedback

Student Grader <i>UW Department of Astronomy</i>	Spring/Autumn 2024 & Winter/Spring 2025 <i>University of Washington</i>
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- **Classes:** ASTR 101: Astronomy & ASTR 150: The Planets
- Assisted with asynchronous grading, note-keeping, and communication between professor and students
- Collaborated with professor and graders in order to create assignments that provoke thoughtful discussions
- Facilitated meaningful online discussions between students in various class sections

LEADERSHIP

Sexual-Orientation and Gender Minorities in Astronomy at UW <i>Co-Chair</i>	September 2023 - June 2025 <i>University of Washington</i>
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- Collaborate with other clubs to create connections between students in both the Physics & Astronomy Departments
- Facilitate meetings with students and colloquium speakers through weekly Tea Talks
- Strengthen community of LGBTQ+ astronomers through hosting interactive social events

TECHNICAL SKILLS

Computer Languages	Python, Bash, Java
Astronomy Software	Astropy, Lightkurve, DS9, Emcee
Data Analysis	Photometry & Spectroscopy, Data Reduction
Other Software	LaTeX, Github, Overleaf