

Laura Lenkić

PhD Candidate • Department of Astronomy • University of Maryland

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RESEARCH INTERESTS

- Cosmic evolution of molecular gas content and star formation rate density
- Structure and dynamics of star forming clumps in nearby galaxies
- Properties of multi-phase ISM in nearby galaxies
- Radio and infrared emission lines in nearby galaxies

EDUCATION

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|---------------------------|---|--|
| Aug 2021 (anticipated) | Ph.D. in Astronomy Thesis: <i>Characterizing Molecular Gas Content and Properties in Galaxies at the Peak of Cosmic Star Forming Activity</i> Advisor: Dr. Alberto Bolatto | University of Maryland College Park, MD |
| Aug 2016 | M.Sc. in Astronomy Thesis: <i>The Ultraviolet and Infrared Star Formation Rates of Compact Group Galaxies: An Expanded Sample</i> Advisor: Dr. Sarah Gallagher | Western University London, ON |
| Aug 2014 | B.Sc. in Physics Minor in Advanced Physics Thesis: <i>The Ultraviolet Star Formation Rates of Compact Group Galaxies</i> Advisor: Dr. Sarah Gallagher | Western University London, ON |

PROFESSIONAL EXPERIENCE

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|-----------|---|--|
| 2016–2020 | Research Assistant Advisor: Dr. Alberto Bolatto | University of Maryland College Park, MD |
| 2013–2016 | Research Assistant Advisor: Dr. Sarah Gallagher | Western University London, ON |
| 2011 | Research Assistant Advisor: Dr. Michael Kovacs | Lawson Health Research Institute London, ON |

OBSERVATIONAL EXPERIENCE

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| ALMA | PI | Cycle 7 | <i>Confirming Serendipitous High-z Sources in the PHIBSS2 Fields</i> Awarded: 8.7 hours |
| | Co-I | Cycle 7 | <i>Ionized Gas, Radiation Field, Masses, and Dust Temperature in Forming Massive Clusters in the NGC253 Starburst</i> PI: R. Levy |

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| | Co-I | Cycle 7 | <i>A Representative Interferometric Survey of Galaxies in the $z=0$ Universe with Full IFU Spectroscopic Coverage: EDGE</i> PI: A. Bolatto |
| | Co-I | Cycle 7 | <i>ACA Mapping of the Largest Supergiant HII Region in the Nearby Universe: 30 Doradus</i> PI: A. Bolatto |
| | Co-I | Cycle 6 | <i>Ionized Gas, Radiation Field, Masses, and Dust Temperature in Forming Massive Clusters in the NGC253 Starburst</i> PI: A. Bolatto |
| JWST | PI | Cycle 1 (in review) | <i>Ionized Gas Outflows from Star Forming Clumps in the Nearby, Turbulent Galaxy: DYNAMO D13-5</i> |
| | Co-I | Cycle 1 (in review) | <i>Searching for the Smallest Dust Grains in the Extremely Low Metallicity Dwarf Galaxy Leo P</i> PI: E. Tarantino |
| | Co-I | Cycle 1 (in review) | <i>Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds</i> PI: A. Bolatto |
| NOEMA | PI | Winter19 | <i>Confirming Serendipitous High-z Sources in the PHIBSS2 Fields</i> Awarded: 6.0 hours |
| SOFIA | PI | Cycle 8 | <i>Local Analogues of Turbulent, Clumpy, Main-Sequence Galaxies at the Peak of Cosmic Star Formation</i> Awarded: 17.1 hours and \$171,000 |
| | Co-I | Cycle 9 (in review) | <i>SOFIA GREAT Mapping of the LMC Northern Molecular Ridge</i> PI: A. Bolatto |

TEACHING EXPERIENCE

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|-------------|---|
| Fall 2020 | Teaching Assistant for The Threat of Asteroid Impacts University of Maryland, College Park Non-astronomy major course, Dr. Jessica Sunshine |
| Spring 2020 | Teaching and Lab Assistant for Introduction to Astronomy University of Maryland, College Park Non-science major course, Dr. Alberto Bolatto Field Assistant for Eyes on the Sky: The Science of Birdwatching University of Maryland, College Park Honors course, Dr. Derek Richardson |
| Fall 2019 | Teaching Assistant for General Astronomy University of Maryland, College Park Non-science major course, Dr. Drake Deming |
| Winter 2016 | Teaching and Lab Assistant for Introductory Physics I Western University, London B.Sc. course, Dr. Kanthi Kaluarachchi Teaching Assistant for Exploring the Stars Hume Cronyn Memorial Observatory, Western University, London Community Outreach Program, Dr. Margaret Campbell-Brown |

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| Fall 2015 | Teaching Assistant for Physics for Engineering Students I Western University, London B.Eng. course, Dr. Silvia Mittler Teaching Assistant for General Astronomy Western University, London B.Sc. course, Dr. Jan Cami Teaching Assistant for Exploring the Stars Hume Cronyn Memorial Observatory, Western University, London Community Outreach Program, Dr. Margaret Campbell-Brown |
| Summer 2015 | Teaching Assistant for Essentials of Modern Astronomy Western University, London B.Sc. course, Dr. Elizabeth A. Silber |
| 2014–2015 | Teaching and Lab Assistant for Introductory Physics I Western University, London B.Sc. course, Dr. Kanthi Kaluarachchi |
| 2011–2013 | Private Tutor London, ON Grade 11 and 12 Applied Mathematics, Calculus, Physics, and Chemistry |

SCIENTIFIC PRESENTATIONS

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| June 2020 | EAS2020 Annual Meeting Poster: <i>Constraints on the Molecular Gas Mass Density Evolution over Cosmic Time from Serendipitous CO Detections in PHIBSS2</i> | Virtual |
| June 2019 | Radio/Millimeter Astrophysical Frontiers in the Next Decade Talk: <i>Constraints on the Molecular Gas Mass Density Evolution over Cosmic Time from Serendipitous CO Detections in PHIBSS2</i> | Charlottesville, VA |
| Nov 2018 | ISM Group Lunch Talk at Goddard Space Flight Center Talk: <i>Results from a CO Line Search in the Plateau de Bure High-z Blue Sequence Survey Data</i> | Greenbelt, MD |
| Sep 2018 | Lunch Talk at the National Science Foundation Talk: <i>Results from a CO Line Search in the Plateau de Bure High-z Blue Sequence Survey Data</i> | Alexandria, VA |
| June 2018 | Astrophysical Frontiers in the Next Decade and Beyond: Planets, Galaxies, Black Holes, and the Transient Universe Talk: <i>Results from a CO Line Search in the Plateau de Bure High-z Blue Sequence Survey Data</i> | Portland, OR |
| May 2015 | Canadian Astronomical Society (CASCA) Annual Meeting Talk: <i>Star Formation and Galaxy Evolution in Compact Groups of Galaxies</i> | Hamilton, ON |
| July 2014 | Compact Group Research Team Meeting Talk: <i>UV and 24 μm Results for the Swift Expanded Sample – The Final Cut</i> | London, ON |
| July 2013 | Compact Group Research Team Meeting Talk: <i>UV and 24 μm Results for the Swift Expanded Sample</i> | Charlottesville, VA |
| July 2012 | Compact Group Research Team Meeting Talk: <i>Reconstructing the Redshift Survey Compact Group Catalog</i> | Charlottesville, VA |

PROFESSIONAL EXPERIENCE AND WORKSHOPS

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| Mar 2019 | ALMA Proposal Workshop | University of Maryland |
| May 2018 | SOFIA Guest Observer | Palmdale, CA |
| May 2017 | SOFIA Proposal Workshop | University of Maryland |
| July 2016 | Scientific Collaboration Visit | Goddard Space Flight Center |
| Dec 2015 | Canada and the Square Kilometre Array | Toronto, ON |
| Aug 2015 | ALMA Summer School on Interferometric Techniques | DRAO |
| May 2015 | Statistics in Astronomy | Hamilton, ON |
| Aug 2014 | Computing Skills Bootcamp | Western University |
| Aug 2012 | Scientific Collaboration Visit | Goddard Space Flight Center |

HONORS AND AWARDS

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| 2016 | Gregor and Donat Wentzel Scholarship Awarded by the Graduate Entrance Committee to the most promising applicants for graduate study. | University of Maryland Dept. of Astronomy |
| 2016 | IMPRS Studentship – Declined ESO is one of the partners in the IMPRS (International Max–Planck Research School) on Astrophysics and offers in Garching two full (3 years) Ph.D. positions every year. | ESO |
| 2015–2016 | Ontario Graduate Scholarship – Honorable Mention The Ontario Graduate Scholarship (OGS) program encourages excellence in graduate studies at publicly-assisted universities in Ontario. Since 1975, the OGS program has been providing merit-based scholarships to Ontario’s best graduate students in all disciplines of academic study. | Western University |
| 2014 | Western Graduate Scholarship | Western University |
| 2013–2014 | Dean’s Honor List | Western University |
| 2009–2010 | Nortel Networks Excellence in Computer Science – Declined Awarded annually to a full-time undergraduate student entering first year of the science program who intends to register in the Honors Computer Science program in year 2 and who achieves a 90% admission average. | Western University |

PROFESSIONAL SERVICE

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| 2020 | GRAD-MAP Winter Workshop Volunteer and Guest Lecturer Guest Lecture: <i>Internship Application Writing & Image Processing in Python</i> | University of Maryland |
| 2020 | Skype a Scientist Volunteer | Virtual |
| 2019–2020 | Graduate Student Council President | University of Maryland |
| 2017–2020 | Equity, Diversity, and Inclusion Committee Member | University of Maryland |
| 2017–2018 | Junior Leader of Astronomy Genteladies’ Network | University of Maryland |
| 2016 | Organizing Member of Transit of Mercury Public Event | Western University |
| 2016 | Public Night Speaker Talk: <i>Small Bodies in the Solar System</i> | Hume Cronyn Memorial Observatory |
| 2015 | Public Night Speaker Talk: <i>Ground Based Telescopes (but really) A Look at Radio Telescopes</i> | Hume Cronyn Memorial Observatory |
| 2015 | Great Lakes Quasar Symposium – Local Organizing Committee | Western University |

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| 2015 | Public Night Speaker Talk: <i>The Perseid Meteor Shower; Plus: The Russian Meteor of February 2013</i> | Hume Cronyn Memorial Observatory |
| 2014–2016 | Public Night Volunteer | Western University |
| 2014–2016 | Graduate Student Council Member | Western University |
| 2014 | Collaboration Meeting Organizing Committee | Western University |
| 2013–2014 | President of Physics & Astronomy Student Association | Western University |
| 2013 | High School Visit – University Recruitment Talk | Saunders High School |
| 2012–2013 | Vice President of Physics & Astronomy Student Association | Western University |
| 2012 | Organizing Member for Transit of Venus Public Event | Western University |
| 2011–2013 | Fall Preview Day Volunteer | Western University |

LIST OF PUBLICATIONS

[Link to current publications in ADS](#)

Total Citations: 20 — h-index: 3

REFEREED PUBLICATIONS

1. ***Lenkić, L.**, et al. 2020, [AJ](#), **159**, 190
Plateau de Bure High- z Blue Sequence Survey 2 (PHIBSS2): Search for Secondary Sources, CO Luminosity Functions in the Field, and the Evolution of Molecular Gas Density through Cosmic Time
2. ***Lenkić, L.**, et al. 2016, [MNRAS](#), **459**, 2948
The Ultraviolet and Infrared Star Formation Rates of Compact Group Galaxies: An Expanded Sample
3. *Tzanavaris, P., Hornschemeier, A.E., Gallagher, S.C., **Lenkić, L.**, et al. 2016, [ApJ](#), **817**, 95

PUBLICATIONS IN PREPARATION

1. Girard, M., Fisher, D.B., Bolatto, A.D., et al. (submitted)
Systematic difference between ionized and molecular gas velocity dispersion in $z \sim 1-2$ disks and local analogues
2. Levy, R.C., Bolatto, A.D., Leroy, A.K., et al. (submitted)
Outflows from Super Star Clusters in the Central Starburst of NGC 253
3. **Lenkić, L.**, Bolatto, A.D., Fisher, D.B., et al. in prep (to be submitted < 1 month)
The Internal Structure of Star Forming Clumps in DYNAMO Galaxies