

Laura Lenkić

PhD Candidate in Astronomy at University of Maryland, College Park

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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
- neutral hydrogen gas and HII region properties of star forming clumps in nearby galaxies
- radio and infrared emission lines in nearby galaxies

Education

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

Professional Experience

2016	Research Assistant <i>Supervisor:</i> Dr. Sarah Gallagher	University of Western Ontario
2013	Research Assistant <i>Supervisor:</i> Dr. Sarah Gallagher	University of Western Ontario
2011	Research Assistant <i>Supervisor:</i> Dr. Mike Kovacs	Cyclotron Laboratory, Lawson Health Research Institute

Observational Experience

ALMA	PI	Cycle 7	<i>Confirming Serendipitous High-z Sources in the PHIBSS2 Fields</i> Awarded: 8.7 hours
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	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
	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
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 (in review)	Cycle 9	<i>SOFIA GREAT Mapping of the LMC Northern Molecular Ridge</i> PI: A. Bolatto

Teaching Experience

Fall 2020	Teaching Assistant for The Threat of Asteroid Impacts University of Maryland, College Park Non-science major course, Dr. Jessica Sunshine
Spring 2020	Teaching Assistant for Introduction to Astronomy University of Maryland, College Park Non-science major course, Dr. Alberto Bolatto
Fall 2019	Teaching Assistant for General Astronomy University of Maryland, College Park Non-science major course, Dr. Drake Deming
Winter 2016	Teaching Assistant for Introductory Physics I University of Western Ontario B.Sc. course, Dr. Kanthi Kaluarachchi
	Teaching Assistant for Exploring the Stars Hume Cronyn Memorial Observatory, University of Western Ontario Community Outreach Program, Dr. Margaret Campbell-Brown

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

Scientific Presentations

- June 2020 EAS2020 Annual Meeting
Poster: Constraints on the Molecular Gas Mass Density Evolution over Cosmic Time from Serendipitous CO Detections in PHIBSS2
Virtual
- June 2019 Radio/Millimeter Astrophysical Frontiers in the Next Decade
Talk: Constraints on the Molecular Gas Mass Density Evolution over Cosmic Time from Serendipitous CO Detections in PHIBSS2
Charlottesville, VA
- Nov 2018 Lunch Talk at the Goddard Space Flight Center
Talk: Results from a CO Line Search in the Plateau de Bure High-z Blue Sequence Survey Data
Greenbelt, MD
- Sept 2018 Lunch Talk at the National Science Foundation
Talk: Results from a CO Line Search in the Plateau de Bure High-z Blue Sequence Survey Data

Alexandria, VA

- June 2018 Astrophysical Frontiers in the Next Decade and Beyond: Planets, Galaxies, Black Holes, and the Transient Universe
Talk: Results from a CO Line Search in the Plateau de Bure High-z Blue Sequence Survey Data
Portland, OR
- May 2015 Canadian Astronomical Society (CASCA) Annual Meeting
Talk: Star Formation and Galaxy Evolution in Compact Groups of Galaxies
Hamilton, ON
- July 2014 Compact Group Research Team Meeting
Talk: UV and 24 μ m Results for the Swift Expanded Sample – The Final Cut
London, ON
- July 2013 Compact Group Research Team Meeting
Talk: UV and 24 μ m Results for the Swift Expanded Sample
Charlottesville, VA
- July 2012 Compact Group Research Team Meeting
Talk: Reconstructing the Redshift Survey Compact Group Catalog
Charlottesville, VA

Workshops

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| March 2019 | ALMA Proposal Workshop | University of Maryland |
| May 2017 | SOFIA Proposal Workshop | University of Maryland |
| July 2016 | Collaboration Meeting | Goddard Space Flight Center |
| December 2015 | Canada and the Square Kilometre Array | Toronto, ON, Canada |
| August 2015 | ALMA Summer School on Interferometric Techniques | DRAO |
| May 2015 | Statistics in Astronomy | Hamilton, ON, Canada |
| May 2014 | Computing Skills Bootcamp | University of Western Ontario |
| August 2012 | Collaboration Meeting | Goddard Space Flight Center |

Awards

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| 2016 | Gregor and Donat Wentzel Scholarship | University of Maryland |
| 2016 | IMPRS Studentship, <i>Declined</i> | European Southern Observatory |
| 2015 – 2016 | Ontario Graduate Scholarship, <i>Waitlisted</i> | University of Western Ontario |
| 2014 | Western Graduate Scholarship, Astronomy | University of Western Ontario |
| 2013 – 2014 | Dean's Honour List | University of Western Ontario |
| 2010 | Nortel Networks Excellence in Computer Science | University of Western Ontario |

Service and Leadership

2019 – 2021	Graduate Student President	University of Maryland
2020 – 2021	Better Astronomy for the Next Generation Committee Member	University of Maryland
2020	GRAD-MAP Winter Workshop Volunteer and Guest Lecturer	University of Maryland
	<i>Guest Lecture: Internship Application Writing & Image Processing in Python</i>	
2020	Skype a Scientist Volunteer	Virtual
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	University of Western Ontario
2016/07/02	Public Night Speaker	Hume Cronyn Memorial Observatory
	<i>Talk: Small Bodies in the Solar System</i>	
2015/07/11	Public Night Speaker	Hume Cronyn Memorial Observatory
	<i>Talk: Ground Based Telescopes (but really) A Look at Radio Telescopes</i>	
2014 – 2015	Public Night Volunteer	Hume Cronyn Memorial Observatory
2015	Local Organizing Committee	Great Lakes Quasar Symposium
2014 – 2016	Member of Graduate Student Council	University of Western Ontario
2014/08/09	Public Night Speaker	Hume Cronyn Memorial Observatory
	<i>Talk: The Perseid Meteor Shower; Plus: The Russian Meteor of February 2013</i>	
2014	Organizing Collaboration Meeting	University of Western Ontario
2013 – 2014	President of Physics & Astronomy Student Association	University of Western Ontario
2013/11/16	Fall Preview Day	University of Western Ontario
2012 – 2013	VP of Physics & Astronomy Student Association	University of Western Ontario
2013/02/06	High School Visits	Saunders High School
2012/11/10	Fall Preview Day	University of Western Ontario
2012	Organizing Member of Transit of Venus Public Event	University of Western Ontario
2011/11/19	Fall Preview Day	University of Western Ontario

List of Publications

[Link to current publications in ADS](#)

Total citations: 15 — 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
Exploring X-Ray Binary Populations in Compact Group Galaxies with Chandra

Publications in Preparation:

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

Last updated September 27, 2020