# 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 Hil region properties of star forming clumps in nearby galaxies
- radio and infrared emission lines in nearby galaxies

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Education —				
Aug 2021 (anticipated)	Thesis Peak o		ng Molecular Gas r Formation Activi	University of Maryland, College Park Content and Properties in Galaxies at the ty
Aug 2016	M.Sc. in Astronomy University of Western Ontari Thesis: The Ultraviolet and Infrared Star Formation Rates of Compact Group Galaxies: An Expanded Sample Supervisor: Dr. Sarah Gallagher			
Aug 2014	<b>B.Sc. in Physics</b> Advanced Physics, Minor <i>Thesis</i> : The Ultraviolet Star Formation Rates of Compact Group Galaxies <i>Supervisor</i> : Dr. Sarah Gallagher			
Professiona	l Expe	rience ——		
2016		rch Assistant visor: Dr. Sara		University of Western Ontario
2013	Research Assistant Supervisor: Dr. Sarah Gallagher			University of Western Ontario
2011	Research Assistant Supervisor: Dr. Mike Kovacs			Cyclotron Laboratory, Lawson Health Research Institute
Observation	al Exp	erience —		
ALMA	PI	Cycle 7	Confirming Ser Fields Awarded: 8.7 h	endipitous High-z Sources in the PHIBSS2

	Co-I	Cycle 7	Ionized Gas, Radiation Field, Masses, and Dust Temperature in Forming Massive Clusters in the NGC253 Starburst PI: R. Levy
	Co-I	Cycle 7	A Representative Interferometric Survey of Galaxies in the z=0 Universe with Full IFU Spectroscopic Coverage: EDGE PI: A. Bolatto
	Co-I	Cycle 7	ACA Mapping of the Largest Supergiant HII Region in the Nearby Universe: 30 Doradus PI: A. Bolatto
	Co-I	Cycle 6	Ionized Gas, Radiation Field, Masses, and Dust Temperature in Forming Massive Clusters in the NGC253 Starburst PI: A. Bolatto
NOEMA	PI	Winter19	Confirming Serendipitous High-z Sources in the PHIBSS2 Fields Awarded: 6.0 hours
SOFIA	PI	Cycle 8	Local Analogues of Turbulent, Clumpy, Main-Sequence Galaxies at the Peak of Cosmic Star Formation Awarded: 17.1 hours and \$171,000
	Co-I (in reviev	Cycle 9 v)	SOFIA GREAT Mapping of the LMC Northern Molecular Ridge PI: A. Bolatto

Teaching E	experience
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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

Charlottesville, 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 24μm Results for the Swift Expanded Sample – The Final Cut London, ON July 2013 Compact Group Research Team Meeting Talk: UV and 24μm Results for the Swift Expanded Sample Charlottesville, VA July 2012 Compact Group Research Team Meeting Talk: Reconstructing the Redshift Survey Compact Group Catalog

Workshops ———		
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 Technique	ies 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 —		
2016	Gregor and Donat Wentzel Scholarship	University of Maryland
2016	IMPRS Studentship, Declined	European Southern Observatory
2015 – 2016	Ontario Graduate Scholarship, Waitlised	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			
	Guest Lecture: Internship Application Writing & Image Processing in Python			
2020	Skype a Scientist Volunteer Virtual			
2017 – 2020	Equity, Diversity, and Inclusion Committee Member University of Marylan			
2017 – 2018	Junior Leader of Astronomy Gentleladies' Network University of Marylan			
2016	Organizing Member of Transit of Mercury Public Event University of Western Ontail			
2016/07/02	Public Night Speaker н	ume Cronyn Memorial Observatory		
	Talk: Small Bodies in the Solar System			
2015/07/11	Public Night Speaker н	ume Cronyn Memorial Observatory		
	Talk: Ground Based Telescopes (but really) A Look at Radio Telescopes			
2014 – 2015	Public Night Volunteer н	ume 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			
	Talk: The Perseid Meteor Shower; Plus: The Russian M	eteor of February 2013		
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 ~ 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 29, 2020