

LAURA A. LOPEZ

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Positions Held

Professor, Department of Astronomy, The Ohio State University	2025–Present
Associate Professor, Department of Astronomy, The Ohio State University	2021–2025
Assistant Professor, Department of Astronomy, The Ohio State University	2015–2021
NASA Hubble Postdoctoral Fellow, Harvard-Smithsonian Center for Astrophysics	2014–2015
Pappalardo Fellow in Physics & NASA Einstein Postdoctoral Fellow, MIT	2011–2014

Education

University of California, Santa Cruz	Astronomy & Astrophysics	Ph.D., 2011
University of California, Santa Cruz	Astronomy & Astrophysics	M.S., 2007
Massachusetts Institute of Technology	Physics	S.B., 2004

Awards

Nancy Grace Roman Award, Astronomical Society of the Pacific	2025
OSU College of Arts & Sciences Mid-Career Faculty Excellence Award	2025
American Astronomical Society Fellow	2025
OSU College of Arts & Sciences Diversity Enhancement Faculty Award	2022–2023
Vera Rubin Distinguished Visiting Professor, UC Santa Cruz	2022–2023
IDEA Scholar, Flatiron Institute Center for Computational Astrophysics	2022–2023
AAS High-Energy Astrophysics Division Early Career Prize	2022
OSU College of Arts & Sciences Early-Career Faculty Excellence Award	2021
Cottrell Scholar Award, Research Corp for Science Advancement	2019–2022
NASA Group Achievement Award (for <i>Lynx</i> Science & Technology Definition Team)	2019
Tycho & Sophie Brahe Visiting Professorship, Niels Bohr Institute	2018–2021
Scialog Fellow, Research Corporation for Science Advancement	2018, 2015
American Astronomical Society Annie Jump Cannon Award	2016
American Physical Society Outstanding Doctoral Thesis in Astrophysics Award	2012
UC President's Dissertation Year Fellowship	2010–2011
AAUW American Dissertation Fellowship	2010–2011
ARCS (Achievement Rewards for College Scientists) Foundation Fellowship	2010–2011
UC Eugene Cota-Robles Fellowship	2005–2006; 2009–2010
NSF Graduate Research Fellowship	2004–2009
AAS Beth Brown Memorial Prize (for best poster at NSBP/NSHP meeting)	2009
Whitford Prize (for outstanding second year student), <i>UCSC Astronomy Dept</i>	2007
Alan H. Barrett Prize (for best astrophysics thesis), <i>MIT Physics Dept</i>	2004
Joel Matthew Orloff Award (for outstanding service in physics), <i>MIT Physics Dept</i>	2004
American Physical Society Corporate Minority Scholarship	2001; 2002

Select Successful Grants as PI

Total of grants obtained as PI: \$2,217,737. Including postdoctoral grants/awards: \$2,866,070.

<i>Chandra</i> Legacy Proposal, PHANGS- <i>Chandra</i> (3 Ms) [Co-PIs Mathur & Lehmer] (\$150,000)	2024
<i>Chandra</i> X-ray Telescope, AO-25, two archival proposals (\$98,680)	2023
OSU Outreach Engagement Grant, AstroLatinX (\$13,000)	2023
Heising-Simons Foundation Grant, BlackinAstro (\$100,000)	2022

Heising-Simons Foundation Grant, OSU Astronomy Bridge Program (\$344,079)	2022
Simons Foundation Sabbatical Visiting Researcher Grant (\$52,189)	2022
NASA Astrophysics Data Analysis Program Grant (\$338,276)	2022
OSU College of Arts & Sciences, Graduate Student Success Grant (\$2,500)	2021
Cottrell Scholar Award, Research Corp for Science Advancement (\$100,000)	2019
<i>Chandra</i> X-ray Telescope, AO-20, archival proposal (\$52,999)	2019
<i>Chandra</i> X-ray Telescope, AO-20, 100 ks (\$68,000)	2019
<i>Chandra</i> X-ray Observatory, AO-18, 268 ks (\$107,036)	2017
<i>Chandra</i> X-ray Observatory, AO-18, 100 ks (\$68,000)	2017
<i>NuSTAR</i> X-ray Telescope, GO-2, 100 ks (\$42,361)	2016
<i>XMM-Newton</i> X-ray Observatory, AO16, 100 ks (\$50,964)	2016
<i>XMM-Newton</i> X-ray Observatory, AO15, 100 ks (\$52,561)	2016
NSF Astronomy & Astrophysics Grant (\$299,541)	2015
<i>NuSTAR</i> X-ray Telescope, GO-1, 200 ks (\$40,585)	2015
<i>Chandra</i> X-ray Telescope, AO-13, 220 ks (\$68,142)	2011
<i>Chandra</i> X-ray Telescope, AO-13, 105 ks (\$60,822)	2011
<i>Chandra</i> X-ray Telescope, AO-12, archival proposal (\$54,000)	2010
<i>Chandra</i> X-ray Telescope, AO-11, archival proposal (\$54,000)	2009

Presentations/Colloquia/Seminars

Given 145 Invited Talks and 36 Contributed Talks to date, including 100 talks since 2015:

100. Invited Talk, “Celebrating Claude Canizares’ Legacy”, Cambridge, MA	Jun 2025
99. Invited Talk, “Unsolved Mysteries in Astrophysics, New Orleans, LA	May 2025
98. Invited Talk, AXIS Workshop on Galaxies (virtual)	Apr 2025
97. Invited Talk, OSU Diversity Journal Club	Apr 2025
96. Invited Talk, “Perspectives on Women in World Cinema”, UNC Asheville	Mar 2025
95. Invited Talk, OSU Astronomical Society	Feb 2025
94. Invited Talk, OSU Diversity Journal Club	Jan 2025
93. Invited Talk, “25 Years of Chandra”, Boston, MA	Dec 2024
92. Invited Talk, Physics of the Cosmos Career Forum (virtual)	Nov 2024
91. Invited Talk, SACNAS National Diversity in STEM Conference, Phoenix, AZ	Nov 2024
90. Invited Talk, Faculty Symposium, OSU Astronomy	Aug 2024
89. Invited Talk, “Rise Time” Workshop on transients, Purdue University	Aug 2024
88. Invited Talk, PHANGS-Chandra Workshop, U of Arkansas	Jun 2024
87. Invited Talk, “Feedback-Driven Matter Cycle in Galaxies”, Heidelberg, Germany	Jun 2024
86. Invited Talk, “Unsolved Mysteries in Astrophysics”, Santa Fe, NM	May 2024
85. Invited Talk, OSU Diversity Journal Club	Mar 2024
84. Invited Talk, AAS Winter Meeting, New Orleans, LA	Jan 2024
83. Invited Talk, JSI “Winds Throughout the Universe” Conference, Annapolis, MD	Oct 2023
82. Invited Talk, Ohio Latino Affairs Summit, Kent State University	Sept 2023
81. Invited Talk, Faculty Symposium, OSU Astronomy	Aug 2023
80. Invited Talk, Flatiron Institute Center for Computational Astrophysics Colloquium	Feb 2023
79. Invited Talk, “Unsolved Mysteries in Astrophysics”, Heising-Simons Foundation	Feb 2023
78. Invited Talk, Vera Rubin Distinguished Lecture, UC Santa Cruz	Oct 2022
77. Invited Talk, Astrophysics Seminar, Rutgers University	Oct 2022
76. Invited Talk, Faculty Symposium, OSU Astronomy	Aug 2022
75. Invited Talk, Physics Colloquium, NYU	May 2022
74. Invited Plenary, AAS High-Energy Astrophysics Division Meeting, Pittsburgh, PA	Mar 2022

73. Invited Talk, Astrophysics Seminar, Purdue University	Dec 2021
72. Invited Talk, Steward Observatory/NSF NOIRLab Colloquium, U Arizona	Nov 2021
71. Invited Talk, Australian National U Astronomy Colloquium, Canberra, AU	Mar 2021
70. Invited Talk, OSAA Public Lecture on Black Holes, OSU	Mar 2021
69. Invited Talk, Picture a Scientist Panel Discussion	Feb 2021
68. Invited Talk, 237th AAS Meeting, NASA Cosmic Origins Session (Virtual)	Jan 2021
67. Invited Talk, 237th AAS Meeting, Session on Stellar Feedback (Virtual)	Jan 2021
66. Invited Talk, Columbia University Diversity Seminar, New York, NY	Dec 2020
65. Invited Talk, Columbia University Astronomy Colloquium, New York, NY	Dec 2020
64. Invited Talk, Physics Colloquium, UC Davis	Nov 2020
63. Invited Talk, Astronomy Colloquium, U Michigan	Nov 2020
62. Invited Talk, Astronomy Colloquium, Indiana U	Oct 2020
61. Invited Talk, OSU Astronomy Faculty Symposium	Aug 2020
60. Invited Talk, Lamat Program Seminar, UC Santa Cruz	Jul 2020
59. Invited Talk, APS CUWiP, Philadelphia, PA	Jan 2020
58. Contributed Talk, Inclusive Astronomy 2, Baltimore, MD	Oct 2019
57. Invited Talk, OSU Astronomy Faculty Symposium	Aug 2019
56. Invited Talk, Cottrell Scholars Conference, Tucson, AZ	Jul 2019
55. Invited Talk, “Astrophysics of Extended X-ray Sources”, Madrid, Spain	Jun 2019
54. Invited Talk, Supernova Remnants Conference, Crete, Greece	Jun 2019
53. Invited Talk, Astronomy Colloquium, UT Austin	Apr 2019
52. Invited Talk, STScI Spring Symposium, Baltimore, MD	Apr 2019
51. Invited Talk, AAS High-Energy Astrophysics Division Meeting, Monterey, CA	Mar 2019
50. Invited Talk, OSU STEAM Factory	Feb 2019
49. Invited Talk, OSU Undergraduate Astronomical Society	Feb 2019
48. Invited Talk, Astronomy Colloquium, Harvard/CfA	Jan 2019
47. Invited Talk, NSF Postdoctoral Fellow Symposium	Jan 2019
46. Invited Talk, AAS Winter Meeting, Seattle, WA	Jan 2019
45. Invited Talk, Astronomy Colloquium, NRAO Socorro	Dec 2018
44. Invited Talk, Astrophysics Colloquium, NASA Goddard Space Flight Center	Dec 2018
43. Invited Talk, “Interstellar Medium of Galaxies Conference”, Leiden, NL	Nov 2018
42. Invited Talk, OSU SACNAS Chapter Meeting	Sept 2018
41. Invited Talk, “Role of Feedback in Galaxy Formation”, Potsdam, Germany	Sept 2018
40. Invited Talk, DARK Cosmology Centre, Niels Bohr Institute	Jul 2018
39. Invited Talk, Astrophysics Seminar, Ohio University	Apr 2018
38. Invited Talk, Astronomy Colloquium, University of Maryland	Dec 2017
37. Invited Talk, Friends of OSU Astronomy & Astrophysics	Oct 2017
36. Invited Talk, <i>From Chandra to Lynx</i> Meeting, Harvard University	Aug 2017
35. Invited Talk, Supernovae Workshop, DARK Cosmology Center, Copenhagen	Jul 2017
34. Invited Talk, Supernova Remnant Workshop, UC Santa Cruz	May 2017
33. Invited Talk, Astronomy Colloquium, University of Washington at Seattle	Apr 2017
32. Invited Talk, Cassiopeia A Workshop, Princeton University	Apr 2017
31. Invited Talk, Astronomy Colloquium, University of Colorado at Boulder	Mar 2017
30. Invited Talk, APS April Meeting, Washington, DC	Jan 2017
29. Invited Talk, Astronomy Colloquium, Case Western Reserve U	Jan 2017
28. Invited Talk, Plenary at Winter AAS in Grapevine, TX	Jan 2017
27. Invited Talk, X-ray Surveyor STDT Face-to-Face Meeting, Washington, DC	Nov 2016
26. Invited Talk, Supernovae Workshop, Bern, Switzerland	Oct 2016

25. Invited Talk, X-ray Surveyor STDT Face-to-Face Meeting, Cambridge, MA	Jul 2016
24. Invited Talk, Supernova Remnants Conference, Chania, Greece	Jun 2016
23. Invited Talk, Astronomy Colloquium, PUC de Chile	May 2016
22. Invited Talk, Astrophysical Sciences Colloquium, Princeton U/IAS	May 2016
21. Invited Talk, Astronomy Colloquium, UCLA	Apr 2016
20. Invited Talk, Astronomy & Astrophysics Colloquium, Penn State University	Apr 2016
19. Invited Talk, Conference for Undergraduate Women in Physics, Ohio State	Mar 2016
18. Invited Talk, Workshop on Energy Deposition from SNe, DARK Cosmology Centre	Feb 2016
17. Invited Talk, JINA Lunch Seminar, Michigan State	Feb 2016
16. Invited Talk, Astrophysics Seminar, University of Pittsburgh	Nov 2015
15. Invited Talk, Astronomy Colloquium, U of Amsterdam	Nov 2015
14. Invited Talk, Astronomy Colloquium, University of Wisconsin-Madison	Oct 2015
13. Invited Talk, Astronomy Colloquium, University of California Santa Cruz	Oct 2015
12. Invited Talk, Colloquium, University of Illinois Urbana-Champaign	Sept 2015
11. Invited Talk, Harvard Center for Astrophysics Summer Colloquium Series	Jul 2015
10. Invited Talk, Fifty-one Ergs Workshop, NC State U	Jun 2015
9. Contributed Talk, Harvard-Heidelberg Star Formation Conference	May 2015
8. Invited Talk, Colloquium, Institute for Astronomy, U of Hawaii	Apr 2015
7. Invited Talk, Center for Cosmology and Astroparticle Physics Seminar, Ohio State	Apr 2015
6. Invited Talk, American Physical Society April Meeting, Baltimore, MD	Apr 2015
5. Invited Talk, Astronomy Seminar, Texas A&M Mitchell Institute	Apr 2015
4. Invited Talk, NASA Hubble Fellow Symposium, Baltimore, MD	Mar 2015
3. Invited Talk, High-Energy Astrophysics Lunch Seminar, Harvard	Mar 2015
2. Invited Talk, Institute of Theory & Computation Seminar, Harvard	Feb 2015
1. Contributed Talk, Star Formation Workshop, UMass Amherst	Jan 2015

Teaching Experience

Astronomy 1101: From Planet to the Cosmos	Fa 2025
Astronomy 2292: Stellar, Galactic, & Extragalactic Astrophysics, OSU	Spring 2021, Sp22, Sp25
Astronomy 7810: Order of Magnitude Astrophysics, OSU	Spring 2020
Astronomy 2895: Introduction to Astrophysics, OSU	Fall 2019
Astronomy 1141: Life in the Universe, OSU	Spring 2017, Sp 2018, Fa 2018, Fa 2019, Fa 2024
Astronomy 1142: Black Holes, OSU	Spring 2016, Fall 2016, Fa 2017, Sp 2019, Fa 2020, Sp 2024
Introduction to Galaxies, Hartnell Community College	Summer 2007

Service Experience

Committees:

OSU Astronomy: Graduate Studies Chair	2025–Present
OSU Astronomy: Graduate Admissions (Chair 2022, 2024–)	2015–2017, 2019–2022, 2023–2025
OSU Astronomy: Director, Astronomy Bridge Program	2017–Present
OSU Astronomy: Diversity Committee (Chair 2016–2021, 2024–2025)	2015–2021, 2023–2025
OSU Astronomy: Faculty Search Committee	2017–2018; 2022–2023
OSU Astronomy: Undergraduate Studies Committee	2017–2020
OSU Astronomy: Coffee Discussion Organizer	2018–2022
OSU Astronomy: Chair Reappointment Committee	2017–2018
OSU Astronomy: Colloquium Organizing Committee	2015–2017
OSU: Faculty Sponsor, AstroLatinX	2022–Present

OSU: Faculty Sponsor, BlackinAstro	2021–Present
OSU: Faculty Sponsor, Polaris and URSA Programs	2019–Present
OSU: Center for Cosmology & Astroparticle Physics Science Board	2019–2022
OSU: Mentor, OSU Louis Stokes Alliance for Minority Participation	2015–2019
OSU: College of Arts & Sciences, Award Committee	2024–Present
OSU: College of Arts & Sciences Faculty Research & Creative Expression Committee	2021–2023
National: Member, AAS Task Force on Graduate Admissions	2024–Present
National: Lead, AXIS Galaxies Science Working Group	2022–Present
National: Chair, AAS Committee on the Status of Minorities in Astronomy	2021–Present
National: Science Advisor, California Academy of Sciences	2022–2023
National: Science Team Member, LOX MeV Gamma-ray MDEX Mission	2021–2022
National: NASA <i>Lynx</i> Science & Technology Definition Team	2016–2019
National: AAS High-Energy Astrophysics Division Executive Committee	2016–2019
National: AAS Committee on the Status of Minorities in Astronomy	2009–2015

Reviews and Selection Panels

Reviewer, NASA Astrophysics Missions Senior Review	2024–2025
Referee for Nature, ApJ, MNRAS	2011–Present
Member, NASA Senior Review Panel	2024–Present
Chair, XRISM guest observer proposal panel review	2024
Chair, NASA Hubble Postdoctoral Fellowship Selection Committee	2021–2022
Reviewer, AAS Annie Jump Cannon Prize Selection Committee	2018–2021
Chair, NASA ADAP panel review	2020
Chair, NuSTAR guest observer proposal panel review	2019
Reviewer, Cottrell Scholar award panel	2019–2021
Reviewer, Chandra Call for Successor Mission Proposal Time Allocation Committee	2018
Reviewer, NSF Astronomy & Astrophysics Postdoctoral Fellowship Selection	2016
Reviewer, Chandra Time Allocation Committee	2016
Reviewer, Cards Against Humanity Ambassador Scholarship	2015
Reviewer, Hubble Time Allocation Committee	2013
Reviewer, Chandra Time Allocation Committee	2011

Organizer:

SOC, Ninth Fermi Symposium, Johannesburg, South Africa	2020
SOC, Midwest Workshop on Supernovae and Transients, Columbus, OH	2019
SOC, Space Astrophysics Landscape for 2020s Meeting, Potomac, MD	2019
SOC, AAS HEAD Meeting, Monterey, CA	2019
SOC, AAS HEAD Meeting, Sun Valley, ID	2017
Co-Chair of SOC, From Chandra to Lynx, Harvard U	2017
SOC, AAS HEAD Meeting, Naples, FL	2016

Advising Experience

Summary: Advised 35 students & postdocs to date: 16 undergrads, 1 masters, 14 PhD students, and 2 postdocs on independent research, including 23 gender minorities, 16 Black/Latinx/Indigenous students.

Current Advisees:

Sebastian Lopez (OSU PhD student) – galactic winds	2020–Present
Jennifer Rodriguez (OSU PhD student) – stellar feedback in HII regions	2022–Present
Paarmita Pandey (OSU PhD student) – cosmic-ray feedback	2022–Present
Debosmita Pathak (OSU PhD student) – PHANGS-JWST (joint with A. Leroy)	2022–Present
Karina Barboza (OSU PhD student) – PHANGS X-rays (joint with A. Leroy)	2023–Present
Elvira Cruz-Cruz (OSU PhD student) – SNRs (joint with C. Kochanek)	2024–Present
Shanel Jackson (OSU PhD student) – dwarf galaxies (joint with D. Berg)	2024–Present

Former Advisees:

Joshua Kingsbury (OSU Undergrad, U Miami PhD student) – galactic winds	2022–2025
Stephen Lenker (OSU Undergrad, U Kentucky PhD student) – cosmic-ray feedback	2024–2025
Trinity Webb (OSU Undergrad, Rutgers PhD student) – stellar feedback	2021–2024
Natalia Porraz Barrera (OSU Undergrad, CU Boulder PhD student) – galactic winds	2022–2024
Ness Mayker-Chen (OSU PhD; now industry) – PHANGS SNe (joint with A. Leroy)	2019–2024
Romy Rodríguez Martínez (OSU PhD; now postdoc fellow at Harvard) – M-dwarf flares	2017–2023
Dustin Nguyen (OSU PhD; now industry) – galactic winds (joint with T. Thompson)	2020–2023
Grace Olivier (OSU PhD; now postdoc fellow at TAMU) – stellar feedback	2016–2022
Orion Eiger (UCSC Undergrad; now at KIPAC) – supernova remnants	2020–2022
Tyler Holland-Ashford (OSU PhD; now NPP Fellow at Goddard) – SNRs	2015–2021
Sam Benincasa (OSU CCAPP Fellow; now industry) – galaxy formation	2020–2022
Gabriela Torrini (OSU undergrad, now PhD student at UIUC) – VERITAS SNRs	2019–2020
Héctor Martínez-Rodríguez (U Pittsburgh PhD student; now data scientist) – SNRs	2018–2020
Jennifer Stafford (OSU undergrad, now PhD student at Wisconsin) – SNRs	2015–2019
Katie Auchettl (OSU CCAPP Fellow; now prof at U Melbourne) – SNRs	2015–2018
Nicole Man (UCSC Undergrad) – SNRs	2018
Anna Rosen (UCSC PhD; now prof at SDSU) – stellar feedback	2013–2017
Zhijie Qu (Peking U undergrad; now postdoc fellow at KIPAC) – HII regions	2014–2015
Sarah Pearson (DARK undergrad; now prof at DARK) – SNRs	2012–2013
Charee Peters (Fisk-Vanderbilt masters student, PhD at Wisconsin) – SNRs	2012–2013
Robert Jones (MIT undergrad; now MIT PhD student) – SNRs	2012
Melinda Soares (UCSC undergrad, now prof at Wisconsin) – SNRs	2011–2012
Diego Gonzalez-Casanova (UNAM undergrad, PhD at Wisconsin) – SNRs	2011
Rodolfo Navarette (UNAM undergrad) – SNRs	2010
Diana Madera (UNAM undergrad, PhD at Stanford) – massive stars	2009
Daniela Huppenkothen (Bremen undergrad, now at UWashingon) – SNRs	2007

Publications

Summary: 90 publications (83 refereed + 7 white papers). h-index: 30; citations: 3.2K. 16 first-author publications + 35 led by students and advisees; [†]denotes papers written by students and postdocs.

[ADS Library Link to the Full Publication List](#)

Selected Recent and High-Impact Papers:

- Pandey, P.[†], **Lopez, L. A.**, Rosen, A. L., Thompson, T. A., Linden, T., Blackstone, I., “*Gamma-ray Emission from a Young Star Cluster in the Star-Forming Region RCW 38*”, 2024, *Astrophysical Journal*, 976, 98, [doi:10.3847/1538-4357/ad83bc](https://doi.org/10.3847/1538-4357/ad83bc)

- Webb, T. L.[†], Rodriguez, J. A.[†], **Lopez, L. A.**, Rosen, A. L., Lancaster, L., Nayak, O., McLeod, A. F., Pandey, P., Olivier, G. M., “*Detection of Diffuse Hot Gas Around the Young Potential Superstar Cluster H72.97–69.39*”, 2024, *Astrophysical Journal*, 977, 45, [doi:10.3847/1538-4357/ad8c41](https://doi.org/10.3847/1538-4357/ad8c41)
- Porraz Barrera, N.[†], Lopez, S.[†], **Lopez, L. A.**, Foord, A., Nguyen, D. D., Thompson, T. A., Mathur, S., Bolatto, A. D., “*Hot Gas Outflow Properties of the Starburst Galaxy NGC 4945*”, *Astrophysical Journal*, 968, 54, [doi:10.3847/1538-4357/ad4606](https://doi.org/10.3847/1538-4357/ad4606)
- Pathak, D.[†], Leroy, A. K., Thompson, T. A., **Lopez, L. A.**, et al. “*A Two-Component Probability Distribution Function Describes the Mid-IR Emission from the Disks of Star-Forming Galaxies*”, 2024, *Astronomical Journal*, 167, 39, [doi:10.3847/1538-3881/ad110d](https://doi.org/10.3847/1538-3881/ad110d)
- Mayker-Chen, N.[†], Leroy, A. K., **Lopez, L. A.**, et al. “*Comparing the Locations of Supernovae to CO(2-1) Emission in Their Host Galaxies*”, 2023, *Astrophysical Journal*, 944, 110, [doi:10.3847/1538-4357/acab00](https://doi.org/10.3847/1538-4357/acab00)
- Lopez, S.[†], **Lopez, L. A.**, Nguyen, D. D., Thompson, T. A., Mathur, S., Bolatto, A. D., Vulic, N., Sardone, A., “*X-ray Properties of NGC 253’s Starburst-Driven Outflow*”, 2023, *Astrophysical Journal*, 942, 108, [doi:10.3847/1538-4357/aca65e](https://doi.org/10.3847/1538-4357/aca65e)
- Olivier, G. M.[†], **Lopez, L. A.**, Rosen, A. L., Nayak, O., Rieter, M., Krumholz, M. R., Bolatto, A. D., “*Evolution of Stellar Feedback in HII Regions*”, 2021, *Astrophysical Journal*, 908, 68, [doi:10.3847/1538-4357/abd24a](https://doi.org/10.3847/1538-4357/abd24a)
- **Lopez, L. A.**, Mathur, S., Nguyen, D. D., Thompson, T. A., Olivier, G. M.[†], “*Temperature and Metallicity Gradients in the Hot Gas Outflows of M82*”, 2020b, *Astrophysical Journal*, 904, 152, [doi:10.3847/1538-4357/abc010](https://doi.org/10.3847/1538-4357/abc010)
- **Lopez, L. A.**, Auchettl, K.[†], Linden, T., Bolatto, A. D., Thompson, T. A., Ramirez-Ruiz, E., “*Evidence for Cosmic-ray Escape from the Small Magellanic Cloud Using Fermi Gamma Rays*”, 2018, *Astrophysical Journal*, 867, 44, [doi:10.3847/1538-4357/aae0f8](https://doi.org/10.3847/1538-4357/aae0f8)
- Holland-Ashford, T.[†], **Lopez, L. A.**, Auchettl, K., Temim, T., Ramirez-Ruiz, E., “*Comparing Neutron Star Kicks to Supernova Remnant Asymmetries*”, 2017, *Astrophysical Journal*, 844, 84, [doi:10.3847/1538-4357/aa7a5c](https://doi.org/10.3847/1538-4357/aa7a5c)
- **Lopez, L. A.**, Krumholz, M. R., Bolatto, A. D., Prochaska, J. X., Ramirez-Ruiz, E., Castro, D., “*The Role of Stellar Feedback in the Dynamics of HII Regions*”, 2014, *Astrophysical Journal*, 795, 121, [doi:10.1088/0004-637X/795/2/121](https://doi.org/10.1088/0004-637X/795/2/121)
- Rosen, A. L.[†], **Lopez, L. A.**, Krumholz, M. R., Ramirez-Ruiz, E., “*Gone with the Wind: Where is the Missing Stellar Wind Energy from Massive Star Clusters?*”, 2014, *Monthly Notices of the Royal Astronomical Society*, 442, 2701, [doi:10.1093/mnras/stu1037](https://doi.org/10.1093/mnras/stu1037)
- **Lopez, L. A.**, Ramirez-Ruiz, E., Castro, D., Pearson, S.[†], “*The Galactic Supernova Remnant W49B Likely Originates from a Jet-Driven Core-Collapse Explosion*”, 2013, *Astrophysical Journal*, 764, 50, [doi:10.1088/0004-637X/764/1/50](https://doi.org/10.1088/0004-637X/764/1/50)
- **Lopez, L. A.**, Ramirez-Ruiz, E., Huppenkothen, D.[†], Badenes, C., Pooley, D. A. “*Using the X-ray Morphology of Young Supernova Remnants to Constrain Explosion Types, Ejecta Distribution, and Chemical Mixing*”, 2011, *Astrophysical Journal*, 732, 114, [doi:10.1088/0004-637X/732/2/114](https://doi.org/10.1088/0004-637X/732/2/114)
- **Lopez, L. A.**, Krumholz, M. K., Bolatto, A., Prochaska, J. X., Ramirez-Ruiz, E. “*What Drives the Expansion of Giant HII Regions?: A Study of Stellar Feedback in 30 Doradus*”, 2011, *Astrophysical Journal*, 731, 91, [doi:10.1088/0004-637X/731/2/91](https://doi.org/10.1088/0004-637X/731/2/91)

Complete Publication List:

90. Chandar, R., Barnes, A. T., Thilker, D. A., and 38 other authors including **Lopez, L. A.**, “*The PHANGS-HST-H α Survey: Warm Ionized Gas Physics at High Angular Resolution in Nearby Galaxies with the Hubble Space Telescope*”, 2025, *Astronomical Journal*, 169, 150, [doi:10.3847/1538-3881/adaa80](https://doi.org/10.3847/1538-3881/adaa80)

89. Lopez, S.[†], **Lopez, L. A.**, Thompson, T. A., Leroy, A. K., Bolatto, A. D., “*Observational Constraints on Cool Gas Clouds in M82’s Starburst-Driven Outflow*”, 2025, submitted to *Astrophysical Journal*, doi:10.48550/arXiv.2502.06934
88. Pathak, D.[†], Leroy, A. K., Thompson, T. A., **Lopez, L. A.**, and 27 other authors, “*Linking Stellar Populations to HII Regions Across Nearby Galaxies. II. Infrared Reprocessed and UV Direct Radiation Pressure in HII Regions*”, 2025, submitted to *Astrophysical Journal*, doi:10.48550/arXiv.2502.00165
87. Villanueva, V., Bolatto, A. D., Herrera-Camus, R., and 22 other authors including **Lopez, L. A.**, “*JWST Observations of Starbursts: Relations between PAH features and CO clouds in the starburst galaxy M82*”, 2025, submitted to *Astronomy & Astrophysics*, doi:10.48550/arXiv.2501.14893
86. Fisher, D. B., Bolatto, A. D., Chisholm, J., and 28 other authors including **Lopez, L. A.**, “*JWST Observations of Starbursts: Cold Clouds and Plumes Launching in the M82 Outflow*”, 2025, *MNRAS* in press, doi:10.48550/arXiv.2405.03686
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