

# Rebecca C. Levy

## National Science Foundation Astronomy & Astrophysics Postdoctoral Fellow

Department of Astronomy/  
Steward Observatory  
University of Arizona  
Tucson, AZ 85721

rebeccalevy@arizona.edu  
rlevy.astro@gmail.com  
<https://rlevy.github.io>  
Pronouns: she/her/hers

## Research Interests

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- The role of stellar feedback in shaping the interstellar medium and galaxy evolution
- Multiphase gas kinematics and dynamics in nearby galaxies
- Young, embedded star clusters and galaxy centers
- Multiwavelength spectroscopic observations: radio, (sub-)millimeter, near–far infrared, optical IFU

## Experience

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Oct 2021 – present	<b>NSF Astronomy &amp; Astrophysics Postdoctoral Fellow</b> Dept. of Astronomy/Steward Observatory, University of Arizona, Tucson, AZ
Aug 2015 – Sept 2021	<b>Graduate Research Assistant</b> Dept. of Astronomy, University of Maryland, College Park, MD
Aug 2019 – May 2020	<b>Graduate Teaching/Lab Assistant</b> Dept. of Astronomy, University of Maryland, College Park, MD

## Education

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Dec 2021	<b>Ph.D. in Astronomy</b> University of Maryland, College Park, MD <i>“Investigating Star Formation Feedback through Gas Kinematics in Nearby Galaxies”</i> Advisor: Prof. Alberto Bolatto
Dec 2017	<b>M.S. in Astronomy</b> University of Maryland, College Park, MD <i>“The EDGE-CALIFA Survey: Molecular and Ionized Gas Kinematics”</i> Advisor: Prof. Alberto Bolatto
May 2015	<b>B.S. in Astronomy, B.S. in Physics</b> University of Arizona, Tucson, AZ Cum Laude with Honors

## Publication Summary

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**Total: 38 papers — 934 citations — h-index = 16**

First-authored & supervised: 6 papers — 135 citations

[Link to current publications in ADS](#)

A full publication list can be found at the end

## First-Authored & Supervised Publications

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- [7] “A *JWST* View of Star Clusters in the Center of M82”  
Levy, R. C., et al. 2023, ApJL, in prep.
- [6] “[CII] Spectral Mapping of the Galactic Wind and Starbursting Disk of M82 with *SOFIA*”  
Levy, R. C., et al. 2023, [ApJ](#), **958**, 109
- [5] “The Morpho-Kinematic Architecture of Super Star Clusters in the Center of NGC 253”  
Levy, R. C., et al. 2022, [ApJ](#), **935**, 19
- [4] “Cuspy Dark Matter Density Profiles in Massive Dwarf Galaxies”  
Cooke, L. H., Levy, R. C., et al. 2022, [MNRAS](#), **512**, 1012
- [3] “Outflows from Super Star Clusters in the Central Starburst of NGC 253”  
Levy, R. C., et al. 2021, [ApJ](#), **912**, 4
- [2] “The *EDGE-CALIFA* Survey: Evidence for Pervasive Extraplanar Diffuse Ionized Gas in Nearby Edge-On Galaxies”  
Levy, R. C., et al. 2019, [ApJ](#), **882**, 84
- [1] “The *EDGE-CALIFA* Survey: Molecular and Ionized Gas Kinematics in Nearby Galaxies”  
Levy, R. C., et al. 2018, [ApJ](#), **860**, 92

## Honors & Awards

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2021	IAU PhD Prize Honorable Mention	Div. H Interstellar Matter & Local Universe
2020	Andrew S. Wilson Prize for Excellence in Research	U. Maryland, Dept. of Astronomy
2020	Philip E. Angerhofer Outstanding Teaching Assistant Award	U. Maryland, Dept. of Astronomy
2020	Prize for Excellence in Mentoring	U. Maryland, Dept. of Astronomy
2018 – 2019	Outstanding Research Assistant Award	U. Maryland, Graduate School
2016	Graduate Research Fellowship Program Honorable Mention	National Science Foundation

## Grants Awarded

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2022	\$44,473	NSF	“21st Annual Symposium of the NSF Astronomy and Astrophysics Postdoctoral Fellows”
2021	\$310,000	NSF AAPF	“A Multiscale View of the Effects of Stellar Feedback in the Local Universe”
2019	\$35,000	NRAO	Student Observing Support for ALMA proposal 2019.1.00473.S (PI: R. Levy)
2019	\$90,000	SOFIA/USRA/NASA	“The <i>GREAT Cigar</i> : Mapping [CII] in the Disk and Outflow of M82”
2019	\$225	U. Maryland Grad. School	International Conference Student Support Award
2019	\$600	U. Maryland Grad. School	The Jacob K. Goldhaber Travel Grant

2017	\$262	U. Maryland Grad. School	International Conference Student Support Award
2017	\$600	U. Maryland Grad. School	The Jacob K. Goldhaber Travel Grant

## Recent Scientific Presentations

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### Invited Reviews and Colloquia

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Oct 2023	Instituto de Astrofísica de Andalucía Colloquium	(Virtual, <a href="#">Recorded</a> )
Oct 2023	Radboud U. Astronomy Colloquium	(Virtual)
Apr 2023	The Galactic Centre Workshop — <b>Review Talk</b>	Granada, Spain
Apr 2023	Hamburg Observatory Colloquium	(Virtual)
Apr 2023	Michigan State U. Astronomy Seminar	(Virtual)
Oct 2022	U. Kansas Physics and Astronomy Department Colloquium	Lawrence, KS
Oct 2019	The Warm Ionized Medium (WIM) Workshop — <b>Review Talk</b>	Green Bank, WV

### Invited Talks

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Dec 2023	ALMA at Ten Years: Past, Present and Future	Puerto Varas, Chile
July 2021	The Grande Cascade	(Virtual)
May 2021	Cornell Galaxy Lunch Seminar	(Virtual)
Feb 2021	Princeton Star Formation/ISM Rendezvous	(Virtual)
Nov 2020	Ringberg Workshop on “How does small-scale physics drive galaxy evolution?” Virtual Seminar	(Virtual)
Oct 2020	CCAPP Seminar	(Virtual)

### Selected Contributed Talks

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Jan 2024	The 243 <sup>st</sup> Meeting of the American Astronomical Society	New Orleans, LA
Jan 2024	2024 NSF-AST Fellows Symposium	New Orleans, LA
Jan 2023	The 241 <sup>st</sup> Meeting of the American Astronomical Society	Seattle, WA
Sept 2022	MPIA Galaxy Coffee Seminar	Heidelberg, Germany
Sept 2022	Puzzles of the Galactic Centre	Heidelberg, Germany
Aug 2022	UVa/ NRAO Astronomy Lunch Talk Series	(Virtual)
July 2022	A Holistic View of Stellar Feedback and Galaxy Evolution	Ascona, Switzerland
June 2022	The 240 <sup>th</sup> Meeting of the American Astronomical Society	Pasadena, CA
May 2022	Ringberg Virtual Seminar Series	(Virtual)
Apr 2022	NOIRLab FLASH Talk	(Virtual)
Jan 2022	2022 NSF AAPF Fellows Symposium	(Virtual)
Oct 2021	Caltech Astronomy Tea Talk	(Virtual)
Nov 2020	UVa/ NRAO Astronomy Lunch Talk Series	(Virtual)
Nov 2020	Steward/NOAO Galaxy Group Seminar	(Virtual)
Nov 2020	UT Austin ISM Seminar	(Virtual)
Oct 2020	UCLA Astronomy & Physics Lunch Talk Series	(Virtual)
Oct 2020	STScI Galaxy Journal Club	(Virtual)
Sept 2020	SMA Seminar	(Virtual)
Oct 2019	ALMA 2019: Science Results and Cross-Facility Synergies	Capri, Italy
June 2019	Radio/Millimeter Astrophysical Frontiers in the Next Decade	Charlottesville, VA

**Press, Media, & Other Coverage**

Aug 2022	Results from Levy et al. 2022, <a href="#">ApJ</a> cited in the <a href="#">Wikipedia page for NGC253</a>
May 2021	NRAO eNews <a href="#">Vol. 14, Issue 5</a> <i>“Outflows from Super Star Clusters in NGC253”</i>
Apr 2021	U. Maryland College of Computer, Mathematical, and Natural Sciences <a href="#">News</a> <i>“Astronomy Ph.D. Student Awarded Prestigious NSF Postdoctoral Fellowship”</i>

**Students Mentored**

Keaton Donaghue	Oct 2022 –	Primary mentor is Prof. Elisabeth Mills <b>Publication:</b> Donaghue, Mills, Levy, et al. in prep. Undergrad at U. Kansas
Lauren Cooke	May 2020, Summer 2019	<b>Publication:</b> Cooke, Levy, et al., 2022, <a href="#">MNRAS</a> , <a href="#">512</a> , <a href="#">1012</a> High school senior — Now: Undergrad at Harvard U.
Brandon Davey	Jan 2020	GRAD-MAP Winter Workshop <b>Publication:</b> Cooke, Levy, et al. (incl. Davey) 2022, <a href="#">MNRAS</a> , <a href="#">512</a> , <a href="#">1012</a> Undergrad of U. of South Florida — Now: Quality Technician
Nathnael Feleke	Summer 2019, Jan 2019	GRAD-MAP Summer Scholars & Winter Workshop Summer Scholars co-mentors: Prof. Alberto Bolatto, Prof. Stuart Vogel, Dr. Peter Teuben Undergrad at Montgomery College - Takoma Park — Now: Undergrad at Florida Institute of Technology
Aurora Cid	Jan 2018	GRAD-MAP Winter Workshop Undergrad at CUNY College of Staten Island
Natalia Ramírez Vega	Jan 2017	GRAD-MAP Winter Workshop Undergrad at U. Costa Rica & Fidélitas U. — Now: Data Engineer

**Selected Observational Experience****ALMA**

Cycle 10	Co-I on 10 projects	
Cycle 9	Co-I on 3 projects	
Cycle 8 ACA	<b>PI</b>	<i>“Complete Molecular Gas Coverage in Nearby Low-Luminosity AGN”</i>
Cycle 8	Co-I on 3 projects	
Cycle 7 ACA	Co-I on 1 project	
Cycle 7	<b>PI</b>	<i>“Ionized Gas, Radiation Field, Masses, and Dust Temperature in Forming Massive Star Clusters in the NGC253 Starburst”</i> Rank: A — Awarded 24.1 hours
Cycle 7	Co-I on 1 project	
Cycle 6	Co-I on 2 projects	
Cycle 4	Co-I on 1 project	

**GBT**

2021b	Co-I PI: A. Bolatto	<i>“GBT EDGE: A Representative Survey of the <math>z=0</math> Universe with Full IFU Spectroscopy”</i> Awarded 300 hours
2021a	Co-I PI: K. Emig	<i>“Feedback from Diffuse Ionized Gas in the Cygnus X Star-Forming Region”</i>

**HST**

Cycle 31	Co-I PI: D. Thilker	<i>“Resolving gas, star formation and feedback in nearby galaxies with an HST+JWST+ALMA Treasury”</i> Awarded 169 primary orbits, 74 parallel orbits
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**NOEMA**

2022a	Co-I PI: D. Colombo	<i>“Resolving the Star Formation Quenching Mechanisms of Green Valley Galaxies”</i>
2021b	Co-I PI: F. Walter	<i>“Dense Molecular Gas in the Outflow of M82”</i>

**JWST**

Cycle 2	Co-I PI: A. Leroy	<i>“A JWST Census of the Local Galaxy Population: Anchoring the Physics of the Matter Cycle”</i> Awarded 109.4 hours
Cycle 2	Co-I PI: J.Sun	<i>“Beholding star cluster formation, feedback, and evolution with the ‘Evil Eye’”</i>
Cycle 2	Co-I PI: A. Leroy	<i>“Resolving HII Regions and ISM Structure Across the Milky Way Analog NGC 253”</i>
Cycle 1	<b>Co-I*</b> PI: A. Bolatto	<i>“Dissecting the Prototypical Starbursts NGC 253 and M 82 and Their Cool Galactic Winds”</i> Awarded 42.8 hours *I led the technical planning and justification for this proposal.
Cycle 1	Co-I PI: I. De Looze	<i>“Structure Formation and Baryonic Cycling in the Edge-on Galaxy NGC891”</i>

**LMT**

2021-S1	Co-I PI: S. Sánchez	<i>“The Connection between Molecular Gas Density, Star-formation and Quenching”</i>
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**SMA**

2018b	Co-I PI: M. Jiménez Donaire	<i>“Searching for Embedded Super Star Clusters in M82”</i>
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**SOFIA**

Cycle 8/7	<b>PI</b>	<i>“The GREAT Cigar: Mapping [CII] in the Disk and Outflow of M82”</i> Rank: A/B — Awarded 9 hours and \$90,000
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Cycle 8/7	Co-I PI: A. Bolatto	<i>“Studying the Energetics of Galaxies with Velocity-Resolved [CII] Observations in an IFU-Selected Galaxy Sample”</i>
Cycle 7	Co-I PI: J. Spilker	<i>“Are Galactic Winds Metal-Enriched Compared to their Host Galaxies?”</i>

**VLA**

2022b	Co-I PI: E. Mills	<i>“JACKS: JVLA Ammonia CMZ K-band Survey”</i>
2022b	Co-I PI: K. Emig	<i>“Recombination Lines from Diffuse Ionized Gas in the M82 Starburst”</i>
2022a	Co-I PI: E. Mills	<i>“High-Resolution Thermal Continuum Imaging of the M82 Starburst”</i>
2022a	Co-I PI: K. Emig	<i>“Diffuse Ionized Gas in the Central Starburst of NGC253”</i>

**Professional Service & Memberships**

Referee for	ApJ, MNRAS, A&A
Meetings organized	Spatio-spectral Modeling of Interferometric Data: Preparing for the Wideband Era (SOC), May 2024 2023 NSF AAPF Symposium (co-organizer), Jan 2023 The Warm Ionized Medium Workshop (SOC), October 2019
Seminars organized	Steward Obs. Science Coffee arXiv discussion, 2022 – 2023 UMD Dept. of Astronomy weekly arXiv discussion, 2019 – 2020
Review panels	NSF Review Panel HST TAC
Committee service	UMD Dept. of Astronomy Faculty Search Committee, Spring 2020 UMD Dept. of Astronomy Graduate Student Council Rep., 2017 – 2020
Collaboration membership	ACES/JACKS, Apr 2023 PHANGS, Dec 2022 SALTUS Extragalactic Science Working Group, Apr 2022 DEGAS, Jan 2018 EDGE-CALIFA, Aug 2015
Society membership	American Astronomical Society, Full Member
Certified to operate	Green Bank Telescope (remote), 2018 –

**Teaching Experience**

Apr 2023	Guest Lecturer — Translational Science Communication ACBS 493/ECOL 499/GEOS 393/NSCS 393: The Bio/Diversity Project Internship Program	U. Arizona
Spring 2020	Teaching and Lab Assistant Astronomy 121: Introductory Astrophysics II — Stars and Beyond	U. Maryland

Fall 2019	Teaching Assistant Astronomy 120: Introductory Astrophysics — Solar System	U. Maryland
Sept 2018	Guest Lecturer — <a href="#">LaTeX Examples with Overleaf</a> Astronomy 695: First Year Seminar	U. Maryland
Spring 2014	Preceptor Physics 141: Introductory Mechanics	U. Arizona
Spring 2013	Undergraduate Teaching Coordinator Math 100/100AX: Prep. for College Algebra	U. Arizona
Fall 2012	Undergraduate Teaching Coordinator Math 100/100AX: Prep. for College Algebra	U. Arizona
Spring 2012	Lead Undergraduate Teaching Assistant Math 100/100AX: Prep. for College Algebra	U. Arizona
Fall 2011	Undergraduate Teaching Assistant Math 100/100AX: Prep. for College Algebra	U. Arizona

## Selected Outreach Experience

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Aug 2023 –	<b>Imagine Your STEM Future Curriculum Development</b> Developing hands-on astronomy lessons and activities for the <a href="#">Women in Science and Engineering Imagine Your STEM Future</a> program. Materials for my lesson about the phases of the Moon can be found in <a href="#">this Google Drive repository</a> .
Feb 2023	<b>Imagine Your STEM Future Guest Lecture</b> Guest lecturer for the <a href="#">Women in Science and Engineering Imagine Your STEM Future</a> program.
Dec 2022	<b>Tucson Amateur Astronomy Association Lecture</b> <i>“A JWST View of Starburst Galaxies: Sweet Data Coming Soon!”</i>
Nov 2022	<b>Steward Observatory Public Evening Lecture Series</b> <i>“A JWST View of Starburst Galaxies: Sweet Data Coming Soon!”</i>
2016 – 2020	<b>GRAD-MAP (Graduate Resources Advancing Diversity with Maryland Astronomy and Physics)</b> <ul style="list-style-type: none"> <li>• Research mentor for four students over four years during the week-long Winter Workshop.</li> <li>• Co-mentor for one student during the Summer Scholars program.</li> <li>• Helped plan Winter Workshops and Summer Scholars programs.</li> <li>• Developed and led professional development sessions during the Winter Workshops and Summer Scholars programs.</li> <li>• Co-organized and led two weekend trips to the Green Bank Observatory.</li> <li>• Helped organize and run the annual Open House, including helping to develop the inaugural Open House.</li> <li>• Attended Collaborative Seminar Series at local institutions.</li> </ul>
Aug 2013 – July 2015,	<b>NOIRLab Education and Public Outreach Department</b>

Apr 2016, June 2016

- Key developer of all aspects of the United Nations sanctioned [International Year of Light 2015 Quality Lighting Teaching Kit](#) (cornerstone project), including activity creation and development, materials sourcing, instructional guide and media writing, state and national educational standards verification, and classroom testing. These kits have been disseminated internationally and are available for retail sale.
- Guest lecturer and support staff for two [Colors of Nature](#) Summer Academies in Tucson, AZ. This NSF-funded educational research study investigated the development of middle-school girls' identities as scientists as they explored the intersections of art and science (STEAM) in a two-week summer academy.
- Worked extensively with the public, K-12 students, K-12 teachers, and members of the Tohono O'odham Nation.
- Developed, planned, led, and/or supported 1–2 outreach activities per week (on average) focused on astronomy and dark skies education.
- Developed, planned, led, and/or supported local, national, and international teacher training workshops and outreach events (e.g., at AAS, AGU, and IAU meetings, US Science and Engineering Festival).
- Involvement in the Globe at Night citizen-science campaign including website design, social media, development of materials, newsletter writing, podcast writing and recording, and facilitating translation of materials.
- Hired, trained, mentored, and evaluated other student employees.

## Publication List

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**Total: 38 papers — 934 citations — h-index = 16**

[Link to current publications in ADS](#)

- [38] Bolatto, A. D., **Levy, R. C.**, Tarantino, E., Boyer, M. L., Fisher, D. B., Leroy, A. K., Klessen, R. S., Smith, J. D., Berg, D. A., Boeker, T., Boogaard, L. A., Cronin, S. A., Ostriker, E. C., Thompson, T. A., Ott, J., Lenkić, L., Lopez, L. A., Dale, D. A., Veilleux, S., van der Werf, P. P., Glover, S. C. O., Sandstrom, K. M., Skillman, E. D., Chisholm, J., Villanueva, V., Lai, T. S.-Y., Lopez, S., Mills, E. A. C., Emig, K. L., Armus, L., Mayya, D., Meier, D. S., De Looze, I., Herrera-Camus, R., Walter, F., Relaño, M., Koziol, H. B., Marvil, J., Jiménez-Donaire, M. J. 2024, ApJ, submitted, “*JWST Observations of Starbursts: Polycyclic Aromatic Hydrocarbon Emission at the base of the M82 Galactic Wind*”
- [37] Sun, J., He, H., Batschkun, K., **Levy, R. C.**, Emig, K., Rodriguez, M. J., Hassani, H., Leroy, A. K., Schinnerer, E., Ostriker, E. C., Wilson, C. D., Bolatto, A. D., Mills, E. A. C., Rosolowsky, E., Lee, J. C., Dale, D. A., Larson, K. L., Thilker, D. A., Ubeda, L., Whitmore, B. C., Williams, T. G., Barnes, A. T., Bigiel, F., Chevance, M., Glover, S. C. O., Grasha, K., Groves, B., Henshaw, J. D., Indebetouw, R., Jiménez-Donaire, M. J., Klessen, R. S., Koch, E. W., Liu, D., Mathur, S., Meidt, S., Menon, S. H., Neumann, J., Pinna, F., Querejeta, M., Sormani, M. C., Tress, R. G. 2024, ApJ, submitted, “*Hidden Gems on a Ring: Infant Massive Clusters and Their Formation Timeline Unveiled by ALMA, HST, and JWST in NGC 3351*”
- [36] Wong, T., Cao, Y., Luo, Y., Bolatto, A. D., Sánchez, S. F., Barrera-Ballesteros, J. K., Blitz, L., Colombo, D., Dannerbauer, H., Green, A., Kalinova, V., Khan, F., Kim, A., Lacerda, E. A. D., Leroy, A. K., **Levy, R. C.**, Lin, X., Luo, Y., Rosolowsky, E., Teuben, P., Utomo, D., Villanueva, V., Vogel, S. N., Wang, X., 2024, ApJS, accepted, “*The EDGE-CALIFA Survey: An Extragalactic Database for Galaxy Evolution Studies*”, doi: <https://ui.adsabs.harvard.edu/abs/2024arXiv240113181W/abstract>



- [35] Lenkić, L., Fisher, D. B., Bolatto, A. D., Teuben, P. J., **Levy, R. C.**, Sun, J., Herrera-Camus, R., Glazebrook, K., Obreschkow, D., Abraham, R. 2023, ApJ, submitted, “*Disk Turbulence and Star Formation Regulation in High- $z$  Main Sequence Analog Galaxies*”
- [34] **Levy, R. C.**, Bolatto, A. D., Tarantino, E., Leroy, A. K., Armus, L., Emig, K. L., Herrera-Camus, R., Marrone, D. P., Mills, E., Ricken, O., Stutzki, J., Veilleux, S., Walter, F. 2023, ApJ, 958, 109, “[CII] Spectral Mapping of the Galactic Wind and Starbursting Disk of M82 with SOFIA”, doi: [10.3847/1538-4357/acff6e](https://doi.org/10.3847/1538-4357/acff6e)
- [33] Maschmann, D., Lee, J. C., Thilker, D. A., Whitmore, B. C., Deger, S., Boquien, M., Chandar, R., Dale, D. A., Wofford, A., Hannon, S., Larson, K. L., Leroy, A. K., Schinnerer, E., Rosolowsky, E., Úbeda, L., Barnes, A. T., Emsellem, E., Grasha, K., Groves, B., Indebetouw, R., Kim, H., Klessen, R. S., Kreckel, K., **Levy, R. C.**, Pinna, F., Rodriguez, J. M., Tian, Q., Williams, T. G. 2023, ApJS, submitted, “*PHANGS-HST catalogs for  $\sim 100,000$  star clusters and compact associations in 38 galaxies: I. Observed properties*”
- [32] Villanueva, V., Bolatto, A. D., Vogel, S. N., Wong, T., Leroy, A. K., Sanchez, S. F., **Levy, R. C.**, Rosolowsky, E., Colombo, D., Kalinova, V., Cronin, S., Teuben, P., Rubio, M., Bazzi, Z. 2023, ApJ, accepted, “*The EDGE-CALIFA survey: Molecular Gas and Star Formation Activity Across the Green Valley*”, doi: [10.48550/arXiv.2312.03995](https://doi.org/10.48550/arXiv.2312.03995)
- [31] Cao, Y., Wong, T., Bolatto, A. D., Leroy, A. K., Rosolowsky, E., Utomo, D., Sánchez, S. F., Barrera-Ballesteros, J. K., **Levy, R. C.**, Colombo, D., Blitz, L., Vogel, S. N., Puschig, J., Villanueva, V., Rubio, M. 2023, ApJS, 268, 3, “*The EDGE-CALIFA Survey: Spatially Resolved  $^{13}\text{CO}(1-0)$  Observations and Variations in  $^{12}\text{CO}(1-0)/^{13}\text{CO}(1-0)$  in Nearby Galaxies on Kiloparsec Scales*”, doi: [10.3847/1538-4365/acd840](https://doi.org/10.3847/1538-4365/acd840)
- [30] Barrera-Ballesteros, J. K., Cruz-González, I., Colombo, D., Sánchez, S. F., **Levy, R. C.**, Villanueva, V., Wong, T., Bolatto, A. D., Alanso Hernández, D. 2023, ApJ, submitted, “*Central vs Global Quenching Traced by the APEX Survey*”
- [29] Sormani, M. C., Barnes, A. T., Sun, J., Stuber, S. K., Schinnerer, E., Emsellem, E., Leroy, A. K., Glover, S. C. O., Henshaw, J. D., Meidt, S. E., Neumann, J., Querejeta, M., Williams, T. G., Bigiel, F., Eibensteiner, C., Fragkoudi, F., **Levy, R. C.**, Grasha, K., Klessen, R. S., Kruijssen, J. M. D., Neumayer, N., Pinna, F., Rosolowsky, E. W., Smith, R. J., Teng, Y.-H., Tress, R. G., Watkins, E. J. 2023, MNRAS, 523, 2918, “*Fuelling the nuclear ring of NGC 1097*”, doi: [10.1093/mnras/stad1554](https://doi.org/10.1093/mnras/stad1554)
- [28] Lenkić, L., Bolatto, A. D., Fisher, D. B., Abraham, R., Glazebrook, K., Herrera-Camus, R., **Levy, R. C.**, Obreschkow, D., Volpert, C. G. 2023, ApJ, 945, 9, “*CO Excitation in High- $z$  Main-sequence Analogues: Resolved  $\text{CO}(4-3)/\text{CO}(3-2)$  Line Ratios in DYNAMO Galaxies*”, doi: [10.3847/1538-4357/acb3b2](https://doi.org/10.3847/1538-4357/acb3b2)
- [27] Leroy, A. K., Bolatto, A. D., Sandstrom, K., Rosolowsky, E., Barnes, A. T., Bigiel, F., Boquien, M., den Brok, J. S., Cao, Y., Chastenet, J., Chevance, M., Chiang, I.-D., Chown, R., Colombo, D., Ellison, S. L., Emsellem, E., Grasha, K., Henshaw, J. D., Hughes, A., Klessen, R. S., Koch, E. W., Kim, J., Kreckel, K., Kruijssen, J. M. D., Larson, K. L., Lee, J. C., **Levy, R. C.**, Lin, L., Liu, D., Meidt, S. E., Pety, J., Querejeta, M., Rubio, M., Saito, T., Salim, S., Schinnerer, E., Sormani, M. C., Sun, J., Thilker, D. A., Usero, A., Vogel, S. N., Watkins, E. J., Whitcomb, C. M., Williams, T. G., Wilson, C. D. 2023, ApJL, 944, L10, “*PHANGS-JWST First Results: A Global and Moderately Resolved View of Mid-infrared and CO Line Emission from Galaxies at the Start of the JWST Era*”, doi: [10.3847/2041-8213/acab01](https://doi.org/10.3847/2041-8213/acab01)
- [26] Leroy, A. K., Sandstrom, K., Rosolowsky, E., Belfiore, F., Bolatto, A. D., Cao, Y., Koch, E. W., Schinnerer, E., Barnes, A. T., Bešlić, I., Bigiel, F., Blanc, G. A., Chastenet, J., Chen, N. M., Chevance, M., Chown, R., Congiu, E., Dale, D. A., Egorov, O. V., Emsellem, E., Eibensteiner, C., Faesi, C. M., Glover, S. C. O., Grasha, K., Groves, B., Hassani, H., Henshaw, J. D., Hughes, A., Jiménez-Donaire, M. J., Kim, J., Klessen, R. S., Kreckel, K., Kruijssen, J. M. D., Larson, K. L., Lee, J. C., **Levy, R. C.**, Liu, D., Lopez, L. A., Meidt, S. E., Murphy, E. J., Neumann, J., Pessa, I., Pety, J., Saito, T., Sardone,

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