Jorge L. Pineda

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Education

Ph. D., Astronomy, University of Bonn, Germany, 2007.
M.S., Astronomy, University of Chile, Chile, 2003.
B.S., Physics and Astronomy, University of Chile, 2002

Professional Experience

CURRENT POSITIONS:

2014–present: Research Scientist, Jet Propulsion Laboratory, California Institute of Technology
2011–2014: Temporary Research Scientist, Jet Propulsion Laboratory, California Institute of Technology

PREVIOUS POSITIONS:

2008–2011: Postdoc, Jet Propulsion Laboratory, California Institute of Technology
2007–2008: Postdoc, Angelander Institut fuer Astronomie, University of Bonn

Awards

2017: JPL Bonus Team Award: “for outstanding work on the Galactic/X-Gal ULDB Spectroscopy Terahertz Observatory proposal leading to selection by NASA”.
2017: NASA Group Achievement Award *“for using the Herschel Space Observatory C+ line emission observations to trace Hydrogen abundance in the interstellar medium and the relation of the emission to star formation”.*
2016: NASA Exceptional Scientific Achievement Medal*” for the exceptional scientific achievement of using Herschel Space Observatory observations of ionized carbon to map galactic molecular hydrogen and trace star formation”.*
2014: JPL Ed Stone Award for Outstanding Publication *“for use of Herschel Space Observatory HIFI observations of ionized carbon to advance out understanding of the interstellar medium”.*
2014: JPL RT&D Research Poster Award Recipient for poster entitled *"A New*

Method for Determining Thermal Pressures in Interstellar Clouds in the Transition from Atomic to Molecular".

2010: NASA Group Achievement Award *"for contribution to the Herschel HIFI Hardware Development Team".*

2002-2003: Grant MECESUP UCH0118 given by the Chilean Ministry of Education for M.S. Studies

Grants

FY20-FY21 PI 2ADAP proposal "Determining the electron density and nitrogen abundance distribution in the Milky Way with ionized nitrogen and hydrogen recombination lines."

FY20-FY24 PI APRA Suborbital Balloon, Astrophysics Stratospheric Telescope for High Spectral Resolution Observations at Submillimeter-wavelengths, ASTHROS.

FY19-FY21 PI SOFIA Cycle 6 proposal: "Tracing the evolution of the interstellar medium and star formation across the spiral arms of M51 with [NII]," Amount Awarded: $58,000.

FY19-FY21 co-I SOFIA Cycle 7 proposal: "Probing Feedback and the ISM Structure in the Carina Nebula Complex".

FY19-FY21 co-I SOFIA Cycle 7 proposal: "Where is the Water?". Total amount awarded $72,700.

FY19-FY21 co-I SOFIA Cycle 7 proposal: "Calibrating [NII] Emission from HII Regions". T

FY19-FY21 co-I SOFIA Cycle 7 proposal: "Where Does a Galaxies [CII] Really Come From?".

FY19-FY21 co-I Strategic Initiative: "ASTHROS+: A 4-pixel ultra-broadband 1.4-2.06 THz receiver channel for the ASTHROS stratospheric balloon telescope."

FY18-FY19 PI KISS/7X Strategic Initiative "Bridging the Gap: Observations and Theory of Star Formation on Large and Small Scales"

FY18-FY19 co-I 7X/Strategic Initiative "Ultra-broadband 5 THz heterodyne array receiver for extragalactic and Galactic mapping"

FY18-FY19 co-I Astrophysical Data Analysis Program proposal "Processing and Distribution of STO2 Data"

FY17: PI JPL NSTA Advanced Concept: **"**Towards Autonomous Spectral Mapping Instrumentation**".**

FY17: PI JPL RTD Spontaneous Concept: “Analyzing Herschel Calibration Maps for Determining the Physical Conditions of Massive Star Forming Regions”.

FY16-FY18 PI SOFIA Cycle 4 proposal: “Joint Impact Proposal: A complete velocity resolved 3-D map of the M51 grand-design spiral galaxy: Unraveling the impact of spiral density waves on the evolution of the ISM and star formation”.

FY16-FY18 co-I SOFIA Cycle 4 proposal: “Dynamics of Spiral Arm Ionized Gas Observed in [N II] and [C II]”. Total amount awarded $240,000.

FY16-FY18 co-I JPL R&TD Strategic Initiative: “Science with the North America Array: Linking Ground and Space Astronomy”

FY16-FY18 co-I JPL R&TD Strategic Initiative: An ultra broadband THz heterodyne receiver with reduced cryocooling requirements”

FY16-FY18 co-I “SOFIA Heterodyne Array for Spectroscopic Terahertz Astronomy (SHASTA)”

FY16-FY17 co-I (JPL-PI) HST Cycle 23 proposal: “A Multiwavelength Study of the Nature of Diffuse Atomic and Molecular Gas” T

FY16-FY17 co-I SOFIA Cycle 3 proposal: “SOFIA [CII] Observations of CNM Clouds”

FY15-FY17 co-I Astrophysical Data Analysis Program proposal “Dynamics of the Central Molecular Zone from [CII] Spectral Maps”

FY16-FY19 co-I NASA Explorer Program Mission of Opportunity**: “**GUSTO: Gal/Xgal U/LDB Spectroscopic/Stratospheric THz Observatory“.

FY14-FY16 co-I JPL R&TD Strategic Initiative: “Galactic Evolution Mapper: velocity-resolved imaging spectroscopy of far-infrared fine-structure lines” A

FY14-FY17 co-I “Reflight of the Stratospheric TeraHertz Observatory: STO-2”.

FY14-FY16 co-I **“**A room-temperature all-solid-state 4.7 THz multiplied LO source to enable the heterodyne observation of interstellar neutral oxygen”.

FY14-FY16 Science-PI SOFIA Cycle 2 proposal: “Determining the [CII] thickness of the galactic plane with SOFIA/GREAT”.

FY14-FY16 co-I Astrophysical Data Analysis Program proposal: ”Understanding Emission from the ISM in the Milky Way and Other Galaxies using [NII] and Other Tracers”.
FY12-FY15 co-I Herschel OT2 Proposal: “Probing Galactic Spiral Arm Tangencies with [CII] ”

FY12-FY15 co-I Herschel OT2 Proposal: ”Herschel [NII] Observations to Define the Source of [CII] Emission”.

FY13-FY14: co-I SOFIA Cycle 1 proposal: “Dynamics of the CMZ: Giant Magnetic Loops connection in the Galactic Center”.

FY13-FY14: co-I SOFIA Cycle 1 proposal: “Proving Molecular Cloud Accretion and Envelopes with Velocity-Resolved CII lines observed with SOFIA/GREAT”.

FY11-FY13: PI Herschel OT1 Proposal: “Characterizing the life cycle of interstellar matter in the Magellanic Clouds with CII and CI”.

FY11-FY13: co-I Herschel OT1 Proposal: ”Structure of translucent clouds observed with HIFI [CII] 1.9THz and in H2 in absorption by FUSE”.

FY11-FY13: co-I Herschel OT1 Proposal: ”HIFI studies of the small-scale structures in the Galactic diffuse clouds with [CII] and [CI]”.

FY11-FY13: co-I Herschel OT1 Proposal: ”The Structure of a Molecular Cloud Boundary”.

FY11-FY13: co-PI Herschel OT1 Proposal: ”The physical conditions of star formation at low metallicity: the Magellanic clouds as corner stones”.

FY11-FY13: co-I Fermi proposal:” Balancing the Budget of Milky Way Baryons with Herschel and Fermi”.

Institutional Service:

2017- present: Member of the Data Science Working group (DSWG). The Data Science Working Group (DSWG) is the implementation and operational arm of the Laboratory Management Council (LMC) relating to establishing and managing institutional objectives for Data Science. The focus of the DSWG is the Laboratory’s strategic planning, investments and implementation of cross-cutting data science capabilities for missions, science, engineering and the institution.

Mentoring Experience:

2016-2017: mentored a Caltech Summer Undergraduate Research Fellowships (SURF) student.

2013: co-mentored a JPL Summer Internship Program student. A peer-reviewed publication written by the student was published.

Meetings Organized:

2014 Keck Institute for Space Studies workshop: “Bridging the Gap: Observations and Theory of Star Formation Meet on Large and Small Scales”

2014 Jet Propulsion Laboratory Science Fair.

2012 Jet Propulsion Laboratory Science Fair.

2011 Jet Propulsion Laboratory Science Fair.

Invited Peer- Reviews:

July 2018: JWST Cycle 1 proposal review panel member (committee disbanded but will be reconvened in 2019).

January 2018: Proposal submitted to the 'ERC Advance Grants - 2017' call for European Commission funds.

July 2017: Topical proposal submitted to the Jet Propulsion Laboratory Research and Technology Development fund.

July 2017: Topical proposal submitted to the Jet Propulsion Laboratory Research and Strategic Technology Development fund.

July 2016: Topical proposal submitted to the Jet Propulsion Laboratory Research and Technology Development fund.

July 2016: Strategic Initiative proposal submitted to the Jet Propulsion Laboratory Research and Technology Development fund.

January 2016: Manuscript submitted to the Astrophysical Journal.

July 2015: Manuscript submitted to the Astronomy & Astrophysics Journal.

Jan 2015: Manuscript submitted to the Astronomy & Astrophysics Journal.

August 2014: Manuscript submitted to the Astronomy and Astrophysics journal.

July 2014: Manuscript submitted to the Monthly Notices of the Royal Astronomical Society.

July 2014: Manuscript submitted to the Astrophysical Journal.

May 2014: Board member for reviewing proposals for the Jet Propulsion Laboratory SURP Research initiative program.

August 2013: Manuscript submitted to the Publications of the Astronomical Society of Australia journal.

July 2013: Proposal submitted to the Jet Propulsion Laboratory Research and Technology Development fund.

September 2011: Proposal submitted to the Jet Propulsion Laboratory Research and Technology Development fund.

July 2011: Manuscript submitted to the Astrophysical Journal.

March 2011: Manuscript submitted to the Astrophysical Journal.

April 2005: Proposal submitted James Clerk Maxwell Telescope; Canadian Time Allocation Group.

Press Releases

2013: "There is more Gas in the Galaxy than dreamt of by Astronomers." European Space Agency press release.

2013: "Shining a Light on Cool Pools of Gas in the Galaxy" NASA press release.

2011: "Astronomers look to neighboring galaxy for star formation insight", University of Illinois at Urbana-Champaign press release.

Conferences

Invited Review Talks:

September 2018, Title **“The Herschel: GOTC+ Survey”,** in Velocity-Resolved Far-Infrared Imaging Spectroscopy of the Future A Symposium Honoring Paul F. Goldsmith, Paris, France

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April 2018, Title **“Characterizing the Life Cycle of the Interstellar Medium and Star Formation in Galaxies with the [CII] 158μm line”,** in University of California San Diego, CASS colloquium series, San Diego, CA.

April 2016, Title **“Characterizing the Life Cycle of the Interstellar Medium and Star Formation in Galaxies with the [CII] 158μm line”,** in SOFIA Science Center colloquium series, NASA Ames Research Center, Moffett Field, CA

January 2016, Title “**Unraveling the distribution of ionized gas in the Galactic plane with radio recombination lines.**” in Next Generation Very Large Array Workshop 2016, Kissimmee, Florida, USA

July 2015, Title “**The origin of the CII line in the Milky Way**” in 30 Years of PhotoDissociation Regions, Asilomar, USA

June 2015, Title “**[CII] Emission towards Molecular Clouds in the Milky Way**” The Formation and Destruction of Molecular Clouds, European Week of Astronomy and Space Science 2015, Tenerife, Spain

July 2014, Title: ”**What We Learned from Surveying the Galaxy in [CII] with Herschel HIFI**” in SFB956 Colloquium Series, Physikalische Institute, Universität zu Köln, Cologne, Germany

July 2013, Title: “**The Distribution of the Milky Way ISM as revealed by the [CII] 158um line** ” in “Phases of the ISM - MPIA Summer Conference 2013”, Heidelberg, Germany

February 2013, Title: “**[CII] from the diffuse medium and as tracer of CO-dark molecular gas**” in C+ as an Astronomical Tool, Leiden, The Netherlands

Jun 2012, Title: **“Herschel Spectroscopy of LMC & SMC”** in Mega-SAGE collaboration Meeting, Tokyo, Japan

Contributed Talks:

August 2017: Title: **“Characterizing the Life Cycle of the Interstellar Medium and Star Formation in Galaxies with the [CII] 158μm line”** GALFRESCA 2017**:** Gala**xy** Formation and Evolution in Southern California, Caltech, Pasadena, California.

June 2017: Title: **”Unraveling the distribution of ionized gas in the Galactic plane**

with radio recombination lines". Developing the ngVLA Science Program Workshop, NRAO, Socorro, New Mexico.

October 2016: Title: "**Unraveling the evolution of the interstellar medium and star formation in the M51 grand-design spiral galaxy with SOFIA.**" The Local Truth: Star Formation and Feedback in the SOFIA Era", Asilomar Conference Grounds, Pacific Grove, California.

June 2015, Title: "**The Galactic Distribution of [CII] and its relationship with Star Formation**" The FIR Fine Structure Lines Workshop, Heidelberg, Germany

September 2011, Title: "**The Distribution of [CII] 158um emission in the Milky Way revealed by Herschel HIFI**" in The Milky Way in the Herschel Era, Rome, Italy

September 2010, Title: "**The relation between gas and dust in the Taurus Molecular Cloud**" in The 5th Zermatt ISM Symposium, Conditions and impact of star formation: New results with Herschel and beyond, Zermatt, Switzerland

Peer-reviewed Publications

1. **Pineda, J.L.**, Horiuchi, S., Anderson, L.D., et al. 2019,"Electron Densities and Nitrogen Abundances in Ionized Gas Derived Using [NII] Fine-structure and Hydrogen Recombination lines", ApJ , 886, 1
2. **Pineda, J L.,** Fischer, Christian, Kapala, Maria, et al. 2018, A SOFIA Survey of [C II] in the Galaxy M51. I. [C II] as a Tracer of Star Formation, , ApJL, 869, L30
3. **Pineda**, **J. L.**, Goldsmith, Langer, W. D., et al. 2017, "Characterizing the formation and evolution of molecular clouds in the Magellanic Clouds with [CII]. [CI], and CO", *ApJ, 839, 107*
4. **Pineda**, **J. L.**, Langer, W. D., Goldsmith. 2014, GOTC+ [CII] Galactic Plane Survey II: [CII] as a Tracer of Star Formation, *A&A*, 570, AA121.
5. **Pineda**, **J. L.**, Langer, W. D., Velusamy,T., Goldsmith. 2013, GOTC+ [CII] Galactic Plane Survey I: The Global Distribution of ISM Gas Components *A&A*, 554, A103.
6. **Pineda, J.L.**, Mizuno, N., Röllig, M., et al., Submillimeter line emission from LMC 30 Doradus: The impact of a starburst on a low-metallicity environment, 2012, *A&A*, 544, A84.
7. **Pineda**, **J. L.** Velusamy,T., Langer, W. D., Goldsmith, P. F., Li. D. & Yorke, H.W. 2010. A Sample of [CII] Clouds Tracing Dense Clouds in Weak FUV Fields. *A&A*, 521, L19.
8. **Pineda, J.L.**, Goldsmith, P.F., Chapman, N.L., Li, D., Snell, R., Cambr´esy, L. & Brunt, C. 2010. The Relation between Dust and Gas in the Taurus Molecular Cloud. *ApJ*, 721, 686
9. **Pineda, J. L.**, Ott, J., Klein, U., Wong, T., Muller, E., & Hughes, A. 2009. The Influence of Far-Ultraviolet Radiation on the Properties of Molecular Clouds in the 30 Dor Region of the Large Magellanic Cloud. *ApJ*, 703, 736.
10. **Pineda, J.L.**, Mizuno,N., Stutzki, J., Cubick, M., et al. 2008. Submillimeter Line Emission from LMC N159W: a Dense, Clumpy PDR in a Low Metal licity Environment. *A&A*, 482, 197.

11. **Pineda, J. L.**, & Bensch, F. 2007. Photon-dominated region modeling of the CO and [CI] line emission in Barnard 68. *A&A*, 470, 615.
12. Wong, T., [8 authors], **Pineda, J. L.**, [4 authors] 2019, Apj, 885,40.
13. Seo, Y, [20 authors], **Pineda, J. L.**, [8 authors], Probing ISM Structure in Trumpler 14 & Carina I Using The Stratospheric Terahertz Observatory 2, 2019, ApJ, , 878, 120
14. Langer, W. D.; Goldsmith, P. F.; **Pineda, J. L.;** Chambers, E. T.; Jacobs, K.; Richter, H., 2018, The nature of molecular cloud boundary layers from SOFIA [O I] observations, A&A, 617, A94
15. Rice, J.S., Federman, S.R., Flagey, N., Goldsmith, P.F, Langer, W.D., **Pineda, J.L.**, Lambert**,** D. L. et al. 2018, The Connection between Different Tracers of the Diffuse Interstellar Medium: Kinematics ,ApJ, 858, 111
16. Kong, S. [30 authors]**, Pineda, J. L.**, [6 authors], "The CARMA-NRO Orion Survey", ApJS, ApJS, 236, 25.
17. Goldsmith, P.F, **Pineda, J.L.**, Neufeld, D. A., Wolfire, M.G., Risacher, C., Simon, R. 2018, "Velocity Resolved [CII] Emission from Cold Diffuse Clouds in the Interstellar Medium", 2018, ApJ, 856, 96.
18. Li, D., [13 authors], **Pineda, J.L.**, [3 authors] 2018,"Where is OH and Does It Trace the Dark Molecular Gas (DMG)?" ApJS, 235, 1
19. Wong, T., [18 authors], **Pineda, J.L.,** [2 authors], 2017, "ALMA Observations of a Quiescent Molecular Cloud in the Large Magellanic Cloud", ApJ, 850, 139
20. Langer, W.D., Velusamy, T., Goldsmith, P.F., **Pineda, J.L.,** [4 authors], 2017, "Ionized gas in the Scutum spiral arm as traced in [N II] and [C II]", A&A, 607, A59
21. Tang, N., [9 authors], **Pineda, J.L.**, [1 author] 2017, "OH Survey along Sightlines of Galactic Observations of Terahertz C+", ApJ, 839, 8
22. Velusamy, T., Langer, W., Goldsmith, P., & **Pineda, J.L.** 2017, "Thermal Pressure in Diffuse H2 Gas Measured by Herschel [C II] Emission and FUSE UV H2 Absorption", ApJ, 838, 165
23. Langer, W.D., Velusamy, T., Morris, M. R., Goldsmith, P.F., & **Pineda, J.L.** 2017, "Kinematics and properties of the central molecular zone as probed with [CII]" 599, A136
24. Stephens, Ian W.; [9 authors], **Pineda, J. L.**; [2 authors] 2017, "Stellar clusterings around "Isolated" Massive YSOs in the LMC", 2017 ApJ, 834, 94
25. Heyer, M.; Goldsmith, P. F.; Yildiz, U. A.; Snell, R. L.; Falgarone, E.; **Pineda, J. L.,** 2016, "Striations in the Taurus molecular cloud: Kelvin–Helmholtz instability or MHD waves?" MNRAS, 461, 3918
26. Langer, W.D., P.F. Goldsmith, & **Pineda J.L.**, 2016, "[CII] and [NII] from dense ionized regions in the Galaxy", A&A, A&A, 590, A43
27. Goldsmith, P. F., **Pineda, J. L.**, Langer, W. D., et al. 2016,"L1599B: Cloud Envelope and C+ Emission in a Region of Moderately Enhanced Radiation Field" ApJ, 824, 141

28. Goldsmith, P. F., Yildiz, U.A., Langer, W.D., & **Pineda, J.L.** 2015, Herschel Galactic Plane Survey of [NII] Fine Structure Emission, ApJ, 814, 133
29. Langer, W. D. and **Pineda, J. L.** [CII] emission from galactic nuclei in the presence of X-rays. 2015, A&A, 580, A5
30. Velusamy, T., Langer, W. D., Goldsmith, P. F., & **Pineda, J.L**. 2015, Internal structure of spiral arms traced with [C II]: Unraveling the warm ionized medium, HI, and molecular emission lanes, A&A, 578, A135
31. Langer, W. D., Goldsmith, P.F., **Pineda, J.L**., et al. 2015, Ionized gas at the edge of the Central Molecular Zone, 2015, 576, A1
32. Orr, M., **Pineda, J. L.**, & Goldsmith, P. 2014, Photon-dominated Region Modeling of the [C I], [C II], and CO Line Emission from a Boundary in the Taurus Molecular Cloud ApJ j, 795, 26
33. Anderson, C.N., Meier, D.S., Ott, J., [7 authors], **Pineda, J. L.**, Seale,J. From Gas to Stars in Energetic Environments: Dense Gas Clumps in the 30 Doradus Region Within the Large Magellanic Cloud 2014, ApJ, 793, 37
34. Langer, W.D., **Pineda, J.L.**, & Velusamy, T. The scale height of gas traced by [CII] in the Galactic plane, 2014, A&A , 564, A101.
35. Langer, W. D.; Velusamy, T.; **Pineda, J. L.**; Willacy, K.; Goldsmith, P. F., A Herschel [C II] Galactic plane survey II: CO-dark H2 in clouds, 2013, A&A 564, 101.
36. Burton, M; [7 Authors], **Pineda, J.L.**, The Mopra Southern Galactic Plane CO Survey, 2013, PASA, 30, 44
37. Goldsmith, P.F., Langer, W.D., **Pineda, J.L.**, & Velusamy, T. 2012,Collisional Excitation of the [C II] Fine Structure Transition in Interstellar Clouds, ApJ,203, 13
38. Seale, J.P., Looney, L.W., Wong, T., Ott, J., Klein, U., **Pineda, J.L.**, The Life and Death of Dense Molecular Clumps in the Large Magellanic Cloud, 2012, *ApJ*, 751, 42.
39. Velusamy, T., Langer, W.D., **Pineda, J.L.**, & Goldsmith, P.F., [CII] 158 μm line detection of the warm ionized medium in the Scutum-Crux spiral arm tangency, 2012, *A&A*, 541, L10.
40. Wong, T., Hughes, A., Ott, J., Muller, E., **Pineda, J.L.**, et al, The Magellanic Mopra Assessment (MAGMA). I. The Molecular Cloud Population of the Large Magellanic Cloud, 2011, *ApJS*, 197, 16.
41. Chapman, N.L., Goldsmith, P.~F., **Pineda, J.L.**, et al, The Magnetic Field in Taurus Probed by Infrared Polarization, 2011, *ApJ*, 741, 21.
42. Röllig, M. [27 authors], **Pineda, J.L.**, [6 authors] , Photon dominated regions in NGC 3603. [CI] and mid-J CO line emission, 2011, *A&A* , 525, A8.
43. Langer, W. D., Velusamy,T., **J. L. Pineda**, Goldsmith, P. F., Li. D. & Yorke, H.W. C+ Detection of Warm Dark Gas in Diffuse Clouds, 2010. *A&A*, 521, L17.
44. Velusamy,T., Langer, W. D., **J. L. Pineda**, Goldsmith, P. F., Li. D. & Yorke, H.W., [CII] Observations of H2 Molecular Layers in Transition Clouds, 2010. *A&A*, 521, L18.
45. Whittet D.C.B., Goldsmith, P.F., **Pineda, J.L.**, 2010. The Uptake of Interestellar Gaseous CO Into Icy Grain Mantles in a Quiescent Dark Cloud. *ApJ*, 720, 259.

46. Tassis, K.; Christie, D. A.; Urban, A.; **Pineda, J. L.**; Mouschovias, T. Ch.; Yorke, H. W.; Martel, H. 2010. Do Lognormal Column-Density Distributions in Molecular Clouds Imply SupersonicTurbulence? *MNRAS*, 408, 1089.
47. Desai, K. M.; Chu, Y. -H.; Gruendl, R. A.; Dluger, W.; Katz, M.; Wong, T.; Chen, C. -H. R.; Looney, L. W.; Hughes, A.; Muller, E.; Ott, **J.; Pineda**, J. L. 2010. Supernova Remnants and Star Formation in the Large Magellanic Cloud. *AJ*, 140, 584.
48. Roman-Duval, J. [21 authors], **Pineda, J.L.**, [2 authors] 2010. Dust/gas correlations from Herschel Observations. *A&A*, 518, 74.
49. Hughes, A.; Wong, T.; Ott, J.; Muller, E.; **Pineda, J. L.** et al. 2010. Physical properties of giant molecular clouds in the Large Magellanic Cloud. *MNRAS*, 873.
50. Muller, E., Ott, J., Hughes, A., **Pineda, J. L.**, & Wong, T. 2009. Characterizing the Low-Mass Molecular Component in the Northern Small Magellanic Cloud. *ApJ*, 712, 1248.
51. Mizuno, Y., [9 authors], **Pineda, J.L.**, [21 authors], 2009. Warm and Dense Molecular Gas in the N159 Region: 12CO J=4-3 and 13CO J=3-2 Observations with NANTEN2 and ASTE. *PASJ*, 62, 51.
52. Wong, T., [6 authors], **Pineda, J.L.**, [5 authors], 2009. Molecular and Atomic Gas in the Large Magellanic Cloud. I. Conditions for CO Detection. *ApJ*, 696, 370.
53. Ott, J, Wong, T, **Pineda, J.L.** et al. The Molecular Ridge Close to 30 Doradus in the Large Magellanic Cloud, *PASA*, 25, 129.
54. Hitschfeld, M. [22 authors], **Pineda, J.L.**, [9 authors] 2008. 12 CO 4-3 and [CI] 1-0 at the centers of NGC 4945 and Circinus. *A&A*, 479, 75.
55. Kramer, C. [24 Authors], **Pineda, J. L.**, [7 authors] 2008, Clumpy Photon-Dominated Regions in Carina. I. [C I] and Mid-J CO Lines in Two 4'4' Fields, *A & A*, 477, 547.
56. Minamidani, T., [14 authors], Pineda, J. L., [12 authors], 2008. Sub-millimeter Observations of Giant Molecular Clouds in the LMC: Temperature and Density as Determined from J = 3 → 2 and J = 1 → 0 Transitions, *Ap. JS*, S, 175, 485.
57. Dickinson, C., Casassus, S**., Pineda**, **J. L**., Pearson, T. J., Readhead, A. C. S., & Davies, R. D. 2006. An Upper Limit on Anomalous Dust Emission at 31 GHz in the Diffuse Cloud [LPH96] 201.663+1.643. *ApJL*, 643, L111.

Conference Proceedings

1. **Galactic Observations of Terahertz C^+ (GOT C+): [CII] Detection of Warm "Dark Gas" in the ISM,** Langer, W. D., Velusamy, T., **Pineda, J. L.**, et al. 2011, EAS Publications Series, 52, 161
2. **The Relation Between Dust and Gas in the Taurus Molecular Cloud**

Pineda, J.L., Goldsmith, P.F., Chapman, N.L., et al. 2011, EAS Publications Series,52, 157

3. **C+/CO Transitions in the Diffuse ISM: Transitional Cloud Sample from the GOTC+ Survey of [CII] in the inner Galaxy at l = -30deg to 30deg,** Velusamy, T., **Pineda, J.L.**, Langer, W.D., Willacy, K., & Goldsmith, P.F. 2011, IAU Symposium, 280, 370P

4. **Carbon Chemistry in Transitional Clouds from the GOT C+ Survey of CII 158 micron Emission in the Galactic Plane,** Langer, W.D., Velusamy, T., **Pineda, J. L.**, Willacy, K., & Goldsmith, P.F. 2011, IAU Symposium, 280
5. **The CO Isotope Ratio of the Large Magellanic Cloud,** Wyss, S.h, Ott, J., Meier, D., Wong, T., Hughes, A., **Pineda, J. L**. & Muller, E., American Astronomical Society, AAS Meeting 217, 251.26, Bulletin of the American Astronomical Society, Vol. 43, 2011, poster presentation.
6. **Herschel Observations of C+ in the Vicinity of Star Forming complexes in the Galactic Plane, Pineda, J.L.,** Velusamy, T., Langer, W., Goldsmith, P., Li, D., Yorke, H.,American Astronomical Society, AAS Meeting 216, 412.02, poster presentation.
7. **Galactic Observations of Terahertz C+ (GOT C+): First Results: Inner Galaxy Survey,** Langer, W.D., Velusamy, T., **Pineda, J.L.**, Goldsmith, P., Li, D., Yorke, American Astronomical Society, AAS Meeting 216, 412.06, poster presentation.
8. **GOT C+ Survey of Transition Clouds in the Inner Galaxy,** Velusamy, T., Langer, W. D., **Pineda, J. L.**, Goldsmith, P. F., Li, D., Yorke, H. W., American Astronomical Society, AAS Meeting 216, 412.04, poster presentation.
9. **MAGMA: Molecular Gas Properties of the Large and Small Magellanic Clouds,** Ott, J., Wong, T., Hughes, A., **Pineda, J. L.**, & Muller, E. 2009, IAU XXVII General Assembly, Rio de Janeiro, Brazil, poster presentation.
10. **Submillimeter line emission from LMC N159W: a dense, clumpy PDR in a low metallicity environment, Pineda, J. L.**, Mizuno, N., Stutzki, J., Cubick, M., The Nanten2 Collaboration EAS Publications Series, Volume 31, 2008, pp.197-198
11. **The Correlation Between CO and HI Emission in the Large Magellanic Cloud,** Wong, T., Fukui, Y., Kawamura, A., Mizuno, N., Hughes, A., Ott, J., Muller, E., **Pineda, J. L**., Staveley-Smith, L., Kim, S., Mizuno, Y., & Murai, M. 2008, IAU Symposium 256: “The Magellanic System: Stars, Gas, and Galaxies”, (Keele, UK), poster presentation.
12. **Properties of LMC Molecular Clouds from MAGMA, the Magellanic Mopra Asessment,** Hughes, A., Wong, T., Muller, E., **Pineda, J. L**., Ott, J., & the MAGMA collaboration 2008, IAU Symposium 256: “The Magellanic System: Stars, Gas, and Galaxies”, (Keele, UK), poster presentation.
13. **Sub-mm observations of GMCs in the SMC with NANTEN2,** Mizuno, N. [3 authors], **Pineda, J.L.**, [13 authors] IAU Symposium 256: “The Magellanic System: Stars, Gas, and Galaxies”, (Keele, UK), oral presentation.
14. **Molecular Cloud and Star Formation Near the Vigorously Star Forming 30 Doradus Region in the Large Magellanic Cloud,** Ott, J., **Pineda, J. L.,** Wong,

T., Hughes, A., & Muller, E. 2008, IAU 255: ”Low-Metallicity Star Formation: from the First Stars to Dwarf Galaxies”, oral contribution.

15. **The Molecular Ridge South of 30 Doradus: A Mopra and ATCA Endeavour,** Ott, J., Wong, T., **Pineda, J.L.,** Hughes, A., & Muller, E. 2007, ”Elizabeth and Frederick White Conference on the Magellanic System” (Sydney, Australia), oral presentation.

16. **The Magellanic Mopra Molecular Line Survey,** Muller, E., Hughes, A., Ott, J., Wong, T., & **Pineda, J.L.** 2006, ”The Magellanic Clouds and dSph satellites: a nearby laboratory for galaxy evolution” conference, (Vienna, Austria), poster presentation.
17. **Mapping Molecular Gas in the Magellanic Clouds,** Ott, J., **Pineda, J.L.**, Wong, T., Hughes, A., & Muller, E. 2006, ”IAU General Assembly, Symposium S237 Triggered Star Formation in a Turbulent ISM” (Prague, Czech Republic) poster presentation.
18. **Testing spherical PDR models: Barnard 68 as example of an (almost) perfect spherical clump in the diffuse Galactic radiation field, Pineda, J. L**., Bensch, F. 2007, Molecules in Space and Laboratory, meeting held in Paris, France, May 14-18, 2007. Editors: J.L. Lemaire, F. Combes. Publisher: S.Diana., p.35.
19. **Mapping Molecular Gas in the Magellanic Clouds,** Ott, J., **Pineda, J. L.**, Wong, T., Hughes, A., & Muller, E. 2006, IAU Symposium, 237
20. **Shining a Bright Light on Cold Gas in the Magellanic Clouds,**Ott, J., **Pineda, J. L.**, Wong, T., Hughes, A., & Muller, E. Science Highlight in ”ATNF Annual Report 2005”, p 32
21. **Large scale mapping of molecular gas in the vicinity of 30 Doradus in the Large Magellanic Cloud Pineda, J. L**., Ott, J., Wong, T., Henkel, C., Fukui, Y., Klein, U. et al. 2005, Astronomische Nachrichten, 326, 528
22. **Photon Dominated Region Modelling of Barnard 68, Pineda, J. L.**, & Bensch, F. 2005, Astronomische Nachrichten, 326, 664
23. **Photon Dominated Region Modelling of Barnard 68, Pineda, J. L.**, & Bensch, F. 2005, IAU Symposium, 231, 55