
SERGIO MARTÍN RUIZ

Curriculum Vitae

Joint Alma Observatory
Alonso de Córdova 3107, Vitacura
Casilla 19001, Santiago 19
Chile

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smartin@eso.org
sergio.martin@alma.cl

PERSONAL DATA

Nationality : Spanish
Birth : 24 Nov. 1977, Madrid (Spain)
Languages spoken : Spanish, English and French

EMPLOYMENT HISTORY

2018 – ... **Interim Program Management Group Manager at Joint ALMA Observatory**, Santiago, Chile
2015 – 2018 **ALMA Operations Astronomer at Joint ALMA Observatory**, Santiago, Chile
2013 – 2015 **ALMA ARC - NOEMA fellowship at Institut de Radioastronomie Millimétrique**, Grenoble, France.
2009 – 2013 **ALMA fellowship at European Southern Observatory**, Santiago, Chile
2006 – 2009 **SMA fellowship at Harvard-Smithsonian Center for Astrophysics**, Cambridge, USA.
2002 – 2006 Astronomer on Duty and PhD student at the **Instituto de Radioastronomía Milimétrica**, Pico Veleta Observatory, Granada, Spain.
2001 – 2002 **Observatorio Astronómico Nacional**, Madrid, Spain.

EDUCATION

2006 PhD Thesis at Universidad Complutense de Madrid and Instituto de Radioastronomía Milimétrica at Granada
Title: *“Química y física del medio interestelar en las regiones centrales de galaxias”*
Supervised by Rainer Mauersberger & Jesús Martín-Pintado
2003 Master Thesis in Astronomy at Universidad Complutense de Madrid and Instituto de Radioastronomía Milimétrica at Granada
Title: *“Primera detección de SO₂, NO y NS extragaláctico”*
Supervised by Rainer Mauersberger
1995 – 2001 Degree in Physics at Universidad Complutense de Madrid

REFEREED PUBLICATIONS SUMMARY*

TOTAL = 107 4553 Citations H-index=39

PI = 15 648 Citations H-index=12

*Complete publication list attached. Citations and H-index based on ADS (as of 06/2019)

MAIN RESEARCH LINES

- Molecular spectroscopy. Physics of the ISM
- Molecular complexity in the ISM. Complex organic molecules formation.
- Chemical evolution of the ISM. Galactic Center and extragalactic nuclei
- Starburst evolution. Starburst-AGN connection

TEACHING EXPERIENCE

- 2007 Teaching assistant for the SMA student project part of the Harvard University Course Ay191 (Astrophysics Laboratory, Prof. Thaddeus)
- 2005 Teaching assistant and local organizing comitee
IRAM Summerschool 2005: mm Observing Techniques and Applications Pradollano (Sierra Nevada), Spain, 30 September- 7 October
- 2003 Teaching assistant and local organizing comitee
IRAM Summerschool 2003: mm Observing Techniques and Applications Pradollano (Sierra Nevada), Spain, 3-10 October

PhD SUPERVISED

- 2011 Title: *Circumnuclear activity in galaxies and its influence on the physics and chemistry on the surrounding molecular gas*
Student: Rebeca Aladro Fernández
Supervisors: Jesús Martín-Pintado, Sergio Martín, and Rainer Mauersberger
Defended on February 18th, 2011 at Universidad de Granada, Spain

SHORT-TERM STUDENT SUPERVISION

- 2013 (2 months) Ilhuiyolitzin Villicaña Pedraza (CAB-INTA)
- 2016 (2 months) Elias Rubin (Princeton)
- 2017 (2 months) Celine Chidiac (MPIfR)
- 2017 (2 months) Hector Afonso Cruz (Princeton)

EDUCATION AND PUBLIC OUTREACH ACTIVITIES

During the last few years i have been involved in a number of public outreach activities and communications with the media. The last page of this CV shows a summary of the activity education and public outreach activities.

COMMITTEES MEMBERSHIP

2014 – 10 – 16	PhD committee: Thesis by Jairo Vladimir Armijos Abedaño at Universidad Autónoma de Madrid.
2008 – 2013	CfA and ASIAA Submillimeter Array Time Allocation Committee
2018	APEX Time Allocation Committee
2011 – 2013	ESO Chile Visitor Selection Committee
2017 – ...	ESO Chile Fellowship and Studentship Selection Committee
2018 – ...	JAO Visitor Selection Committee
2018 – ...	JAO Fellowship Selection Committee

CONFERENCE COMMITTEES

2011 – 06 – 27/30	LOC: Multiwavelength Views of the ISM in High-Redshift Galaxies, ESO, Santiago, Chile
2014 – 07 – 14/18	SOC: Behind the curtain of dust - the molecular view of activity in (U)LIRGs, Sexten-CfA, Sesto, Italy
2015 – 03 – 23/27	SOC: Dissecting the galaxies near and far. High resolution views of star formation and the ISM, Santiago, Chile
2016 – 10 – 10/13	SOC: Fractionation of isotopes in space: from the solar system to galaxies, INAF, Florence, Italy
2017 – 07 – 3/7	SOC: Behind the Curtain of Dust II - The Molecular and Multi-wavelength View of Activity in (U)LIRGs, Sexten-CfA, Sesto, Italy

REFEREEING ACTIVITIES

Journal	Astrophysical Journal
Journal	Astronomy & Astrophysics
Journal	Monthly Notices of the Royal Astronomical Society
Journal	Boletín de la Sociedad Geología Mexicana
Journal	Publications of the Astronomical Society of Japan

AWARDS

2009	Winner of the 1 st SMA Image Contest
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OBSERVING AND DATA REDUCTION EXPERIENCE

I am an expert in observations on most mm and submm facilities as well as their data reduction packages.

Telescopes IRAM 30 m and PdBI, Swedish-ESO Submillimetre Telescope (SEST), James Clerk Maxwell Telescope (JCMT), Submillimeter Array (SMA), MOPRA, and ALMA.

Packages GILDAS, MIRIAD, MIR-IDL, CASA

SOFTWARE DEVELOPEMENT

Active developer of the new multi-platform data reduction package MADCUBA_IJ in JAVA. Leading the design of the molecular database for line identification and LTE modelling.

Solid knowledge of OOP programming and languages such as C++, JAVA, Python, and FORTRAN.

INVITED TALKS

INTERNATIONAL CONFERENCES

11. 14-18 October 2019, PROGRAMMED
'ALMA2019: science results and cross-facility synergies' workshop, Cagliari, Italy
10. 1-5 Jul 2019, PROGRAMMED
'Behind the Curtain of Dust III - The Multi-Wavelength View of the Dust Enshrouded Evolution of Galaxies' workshop, Sesto, Italy
9. 28 Oct 2016, "*ALMA update: Towards Cycle 5*"
'SMA science in the Next Decade' workshop, Taipei, Taiwan
8. 5 Apr 2016, "*The Unbearable Opaqueness of Obscured Nuclei*"
XGAL2016 'Molecular Gas in Galactic Environments', Charlottesville, Virginia, US
7. 4 Aug 2015, "*Molecules in action. Extragalactic ISM at high resolution*"
IAU symposium 315 'From interstellar clouds to star-forming galaxies: universal processes?', IAU General Assembly, Honolulu, Hawaii, US
6. 15 May 2015, "*High resolution spectroscopy of Luminous Galaxies*"
From Herschel to ALMA and Beyond, Zakopane, Poland
5. 23 Jul 2014, "*What lines are good shock indicators? Extra-galactic perspective*"
Chemical Diagnostics in the ALMA/NOEMA Era, Max-Planck-Institut für Astronomie, Heidelberg, Germany
4. 30 Jan 2013 "*Extragalactic astrochemistry*"
Astrochemistry in the ALMA era, Copenhagen, Denmark
3. 23 Aug 2011 "*Astro-chemistry outside our own galaxy (TUTORIAL)*"
24 Aug 2011 "*Astro-chemistry outside our own galaxy*"
Negative ions and molecules in astrophysics, Gothenborg, Sweden
2. 2 Jun 2011, "*Extragalactic line surveys*"
IAU Symposium 280, The Molecular Universe, Toledo, Spain
1. 16 Jul 2007, "*Observing the Molecular Composition of Galaxies*"
Bioastronomy 2007, Molecules, Microbes and Extraterrestrial Life, San Juan, Puerto Rico

OTHER

7. 3 Oct 2018, "*Molecular Observations in nearby Universe with ALMA*"
II International Astrochemistry School, Universidad Autonoma de Chile, Santiago, Chile

6. 27 Mar 2018, “*Molecular gas imaging in the nearby Universe*”
“*The ALMA Quest for Our Cosmic Origins: A Symposium to Honor Pierre Cox*”, ESO, Santiago, Chile
5. 4 Sept 2017, “*Compact Obscured Nuclei*”
Miniworkshop: Molecules as tools Probing the Growth of Galaxies, Chalmers University, Goteborg, Sweden
4. 12 Dec 2014, “*Extra-galactic Line Surveys*”
Structure and CHEMistry of the InterStellar Medium Workshop, Observatoire de Paris, Meudon, France
3. 25 Jun 2012, “*ALMA Early Science Highlights*”
ALMA Early Science Chilean Users workshop, Cerro Calán, Universidad de Chile, Santiago, Chile
2. 10 May 2011, “*The extragalactic ISM at our grasp*”
ALMA Early Science Chilean Users workshop, Cerro Calán, Universidad de Chile, Santiago, Chile
1. 13 Oct 2010, “*Extragalactic SMA*”
Submillimeter Array Advisory Committee Meeting, CfA, Cambridge, MA, USA

PUBLICATIONS

REFEREED PUBLICATIONS BY YEAR

2019

109. “*The hidden heart of the luminous infrared galaxy IC 860 I. A molecular inflow feeding opaque, extreme nuclear activity*”
Aalto, S. et al.
arXiv:1905.07275
108. “*ALMA captures feeding and feedback from the active galactic nucleus in NGC613*”
Audibert, A. et al.
arXiv:1905.01979
107. “*Spatially resolved carbon and oxygen isotopic ratios in NGC 253 using optically thin tracers*”
Martín, S., Muller, S., Henkel, C., Meier, D.S., Aladro, R., Sakamoto, K., van der Werf, P.P.
arXiv:1903.03244
106. “*ALMA observations of molecular tori around massive black holes*”
Combes, F. et al.
2019, A&A, 623, 79
105. “*Hidden or missing outflows in highly obscured galaxy nuclei?*”
Falstad, N. et al.
2019, A&A, 623, 29
104. “*Abundant Z-cyanomethanimine in the interstellar medium: paving the way to the synthesis of adenine*”
Rivilla, V.M. et al.
2019, MNRAS, 483, 114

2018

103. “*The luminous host galaxy, faint supernova and rapid afterglow rebrightening of GRB 100418A*”
de Ugarte Postigo, A et al.
2018, A&A, 620, 190
102. “*X-shooter and ALMA spectroscopy of GRB 161023A - A study of metals and molecules in the line-of-sight towards a luminous GRB*”
de Ugarte Postigo, A et al.
2018, A&A, 620, 119

101. “*Molecular Gas and Star Formation Properties in Early Stage Mergers: SMA CO(2-1) Observations of the LIRGs NGC 3110 and NGC 232*”
Espada et al.
2018, *ApJ*, 866, 77
100. “*Molecular gas in the northern nucleus of Mrk273: Physical and chemical properties of the disk and its outflow*”
Aladro, R. et al.
2018, *A&A*, 617, 20
99. “*Complex organic molecules in the Galactic Centre: the N-bearing family*”
Zeng, S et al.
2018, *MNRAS*, 478, 2962
98. “*Molecular line emission in NGC 4945, imaged with ALMA*”
Henkel, C., Muehle, S., Bendo, G., Jozsa, G. I. G., Gong, Y., Viti, S., Aalto, S., Combes, F., Garcia-Burillo, S., Hunt, L. K., Mangum, J., **Martín, S.**, Muller, S., Ott, J., van der Werf, P., Malawi, A. A., Ismail, H., Alkhuja, F., Asiri, H. M., Aladro, R., Alves, F., Ao, Y., Baan, W. A., Costagliola, F., Fuller, G., Greene, J., Impellizzeri, C. M. V., Kamali, F., Klessen, R. S., Mauersberger, R., Tang, X. D., Tristram, K., Wang, M., Zhang, J. S.
2018, *A&A*, 615, 155
97. “*Study of diffuse H II regions potentially forming part of the gas streams around Sgr A**”
Armijos-Abendaño, J., López, E., Martín-Pintado, J., Báez-Rubio, A., Aravena, M., Requena-Torres, M.A., **Martín, S.**, Llerena, M., Aldás, F., Logan, C., Rodríguez-Franco, A.
2018, *MNRAS*, 476, 2446
96. “*The foot points of the Giant Molecular Loops in the Galactic center region*”
Riquelme, D., Amo-Baladrón, A., Martín-Pintado, J., Mauersberger, R., **Martín, S.**, Burton, M., Cunningham, M., Jones, P., Menten, K.M., Bronfman, L., Guesten, R.
2018, *A&A*, 613, 37
95. “*ALMA Astrochemical Observations of the Infrared-Luminous Merger NGC 3256*”
Harada, N., Sakamoto, K., **Martín, S.**, Aalto, S., Aladro, R., Sliwa, K.
2018, *ApJ*, 855, 49
94. “*Phosphorus-bearing molecules in the Galactic Center*”
Rivilla, V.M., Jiménez-Serra, I., Zeng, S., **Martín, S.**, Martín-Pintado, J., Armijos-Abendaño, J., Viti, S., Aladro, R., Riquelme, D., Requena-Torres, M., Quénard, D., Fontani, F., Beltrán, M.T.
2018, *MNRAS*, 475, 30
93. “*Fast, Collimated Outflow in the Western Nucleus of Arp 220*”
Barcos-Muñoz, L., Aalto, S., Thompson, T.A., Sakamoto, K., **Martín, S.**, Leroy, A.K., Privon, G.C., Evans, A.S., Kepley, A.
2018, *ApJ*, 853, 28

2017

92. “ALMA Observations of the Physical and Chemical Conditions in Centaurus A”
McCoy, M., Ott, J., Meier, D.S., Muller, S., Espada, D., **Martín, S.**, Israel, F.P., Henkel, C., Impellizzeri, V., Aalto, S., Edwards, P.G., Brunthaler, A., Neumayer, N., Peck, A.B., van der Werf, P., Feain, I.
2017, ApJ, 851, 76
91. “ALMA imaging of C₂H emission in the disk of NGC1068”
García-Burillo, S., Viti, S., Combes, F., Fuente, A., Usero, A., Hunt, L.K., **Martín, S.**, Krips, M., Aalto, S., Aladro, R., Ramos Almeida, C., Alonso-Herrero, A., Casasola, V., Henkel, C., Querejeta, M., Neri, R., Costagliola, F., Tacconi, L. J., van der Werf, P.P.
2017, A&A, 608, 56
90. “Luminous, pc-scale CO 6-5 emission in the obscured nucleus of NGC1377”
Aalto, S., Muller, S., Costagliola, F., Sakamoto, K., Gallagher, J. S., Falstad, N., König, S., Dasyra, K., Wada, K., Combes, F., García-Burillo, S., Kristensen, L. E., **Martín, S.**, van der Werf, P., Evans, A. S., Kotilainen, J.
2017, A&A, 608, 22
89. “Survey of Water and Ammonia in the Galactic Center (SWAG): Molecular Cloud Evolution in the Central Molecular Zone”
Krieger, N., Ott, J., Beuther, H., Walter, F., Kruijssen, J.M.D., Meier, D.S., Mills, E.A.C., Contreras, Y., Edwards, P., Ginsburg, A., Henkel, C., Henshaw, J., Jackson, J., Kauffmann, J., Longmore, S., Martín, S., Morris, M.R., Pillai, T., Rickert, M., Rosolowsky, E., Shinnaga, H., Walsh, A., Yusef-Zadeh, F., Zhang, Q.
2017, ApJ, 850, 77
88. “ALMA and GMRT constraints on the off-axis gamma-ray burst 170817A from the binary neutron star merger GW170817”
Kim, S., Schulze, S., Resmi, L., González-López, J., Higgins, A. B., Ishwara-Chandra, C. H., Bauer, F. E., de Gregorio-Monsalvo, I., De Pasquale, M., de Ugarte Postigo, A., Kann, D. A., **Martín, S.**, Oates, S. R., Starling, R. L. C., Tanvir, N. R., Buchner, J., Campana, S., Cano, Z., Covino, S., Fruchter, A. S., Fynbo, J. P. U., Hartmann, D. H., Hjorth, J., Jakobsson, P. P., Levan, A. J., Malesani, D., Michalowski, M. J., Milvang-Jensen, B., Misra, K., O’Brien, P. T., Sánchez-Ramírez, R., Thöne, C. C., Watson, D. J., Wiersema, K.
2017, ApJ, 850, 21
87. “Diverse nuclear star-forming activities in the heart of NGC 253 resolved with ten-pc scale ALMA images”
Ando, R., Nakanishi, K., Kohno, K., Izumi, T., **Martín, S.**, Harada, N., Takano, S., Kuno, N., Nakai, N., Sugai, H., Sorai, K., Tosaki, T., Matsubayashi, K., Nakajima, T., Nishimura, Y., Tamura, Y.
2017, ApJ, 849, 81
86. “Resolved Structure of Arp 220 Nuclei at λ 3 mm”
Ando, R., Nakanishi, K., Kohno, K., Izumi, T., **Martín, S.**, Harada, N., Takano, S., Kuno, N., Nakai, N., Sugai, H., Sorai, K., Tosaki, T., Matsubayashi, K., Nakajima, T.,

Nishimura, Y., Tamura, Y.
2017, ApJ, 849, 14

85. “*Multi-messenger Observations of a Binary Neutron Star Merger*”
Abbott, B.P., (+3673 co-Is including **Martín, S.**)
2017, ApJ, 848, 12
84. “*Detection of CH⁺, SH⁺, and their 13C- and 34S- isotopologues toward PKS1830-211*”
Muller, S., Müller, H.S.P., Black, J.H., Gérin, M., Combes, F., Curran, S., Falgarone, E., Guélin, M., Henkel, C., **Martín, S.**, Menten, K.M., Roueff, E., Aalto, S., Beelen, A., Wiklind, T., Zwaan, M.A.
2017, A&A, 606, 109
83. “*On the Disappearance of a Cold Molecular Torus around the Low-luminosity Active Galactic Nucleus of NGC 1097*”
Izumi, T., Kohno, K., Fathi, K., Hatziminaoglou, E., Davies, R.I., **Martín, S.**, Matsushita, S., Schinnerer, E., Espada, D., Aalto, S., Onishi, K., Turner, J.L., Imanishi, M., Nakanishi, K., Meier, D.S., Wada, K., Kawakatu, N., Nakajima, T.
2017, ApJ, 845, 5
82. “*The final data release of ALLSMOG: a survey of CO in typical local low-M_{*} star-forming galaxies*”
Cicone, C., Bothwell, M., Wagg, J., Møller, P., De Breuck, C., Zhang, Z., **Martín, S.**, Maiolino, R., Severgnini, P., Aravena, M., Belfiore, F., Espada, D., Flütsch, A., Impellizzeri, V., Peng, Y., Raj, M. A., Ramírez-Olivencia, N., Riechers, D., Schawinski, K.
2017, A&A, 604, 53
81. “*Disentangling the Circumnuclear Environs of Centaurus A. III. An Inner Molecular Ring, Nuclear Shocks, and the CO to Warm H₂ Interface*”
Espada, D., Matsushita, S., Miura, R.E., Israel, F.P., Neumayer, N., **Martín, S.**, Henkel, C., Izumi, T., Iono, D., Aalto, S., Ott, J., Peck, A.B., Quillen, A.C., Kohno, K.
2017, ApJ, 843, 136
80. “*Sub-arcsecond imaging of the water emission in Arp 220*”
König, S., **Martín, S.**, Muller, S., Cernicharo, J., Sakamoto, K., Zschaechner, L.K., Humphreys, E.M.L., Mroczkowski, T., Krips, M., Galametz, M., Aalto, S., Vlemmings, W.H.T., Ott, J., Meier, D.S., Fuente, A., García-Burillo, S., Neri, R.
2017, A&A, 602, 42
79. “*GRB 110715A: The peculiar multiwavelength evolution of the first afterglow detected by ALMA*”
Sánchez-Ramírez, R., Hancock, P.J., Jóhannesson, G., Murphy, T., de Ugarte Postigo, A., Gorosabel, J., Kann, D.A., Krühler, T., Oates, S.R., Japelj, J., Thöne, C.C., Lundgren, A., Perley, D.A., Malesani, D., de Gregorio Monsalvo, I., Castro-Tirado, A.J., D’Elia, V., Fynbo, J.P.U., García-Appadoo, D., Goldoni, P., Greiner, J., Hu, Y.-D., Jelínek, M., Jeong, S., Kamble, A., Klose, S., Kuin, N.P.M., Llorente, A., **Martín, S.**, Nicuesa Guelbenzu, A., Rossi, A., Schady, P., Sparre, M., Sudilovsky, V., Tello, J.C., Updike, A., Wiersema,

K., Zhang, B.-B.
2017, *MNRAS*, 464, 4624

2016

78. “*OH+ and H2O+ absorption toward PKS1830-211*”
Muller, S., Müller, H.S.P., Black, J.H., Beelen, A., Combes, F., Curran, S., Gerin, M., Guelin, M., Henkel, C., **Martín, S.**, Aalto, S., Falgarone, E., Menten, K.M., Schilke, P., Wiklind, T., Zwaan, M.A.
2016, *A&A*, 595, 128
77. “*Linearly Polarized Millimeter and Submillimeter Continuum Emission of Sgr A* Constrained by ALMA*”
Liu, H.B., Wright, M.C.H., Zhao, J.-H., Brinkerink, C.D., Ho, P.T.P., Mills, E.A.C., **Martín, S.**, Falcke, H., Matsushita, S., Martí-Vidal, I.
2016, *A&A*, 593, 107
76. “*The 492 GHz emission of Sgr A* constrained by ALMA*”
Liu, H.B., Wright, M.C.H., Zhao, J.-H., Mills, E.A.C., Requena-Torres, M.A., Matsushita, S., **Martín, S.**, Ott, J., Morris, M.R., Longmore, S.N., Brinkerink, C.D., Falcke, H.
2016, *A&A*, 593, 44
75. “*Discovery of a galaxy cluster with a violently starbursting core at $z=2.506$* ”
Wang, T., Elbaz, D., Daddi, E., Finoguenov, A., Liu, D., Schreiber, C., **Martín, S.**, Strazzullo, V., Valentino, F., van der Burg, R., Zanella, A., Ciesla, L., Gobat, R., Le Brun, A., Pannella, M., Sargent, M., Shu Qinghua Tan, X., Cappelluti, N., Li, Y.
arXiv:1604.07404
74. “*ACA [CI] observations of the starburst galaxy NGC 253*”
Krips, M., **Martín, S.**, Sakamoto, K., Aalto, S., Bisbas, T.G., Bolatto, A.D., Downes, D., Eckart, A., Feruglio, Ch., Garca-Burillo, S., Geach, J., Greve, T.R., König, S., Matsushita, S., Neri, R., Offner, S., Peck, A.B., Viti, S., Wagg, J.
2016, *A&A*, 592, L3
73. “*A precessing molecular jet signaling an obscured, growing supermassive black hole in NGC1377?*”
Aalto, S., Costagliola, F., Muller, S., Sakamoto, K., Gallagher, J. S., Dasyra, K., Wada, K., Combes, F., García-Burillo, S., Kristenssen, L., **Martín, S.**, van der Werf, P., Evans, A. S., Kotilainen, J.
2016, *A&A*, 590, 73
72. “*ALMA resolves the torus of NGC 1068: continuum and molecular line emission*”
García-Burillo, S., Combes, F., Ramos Almeida, C., Usero, A., Krips, M., Alonso-Herrero, A., Aalto, S., Casasola, V., Hunt, L.K., **Martín, S.**, Viti, S., Colina, L., Costagliola, F., Eckart, A., Fuente, A., Henkel, C., Marquez, I., Neri, R., Schinnerer, E., Tacconi, L. J., van der Werf, P.P.
2016, *ApJ*, 823, 12

71. “*The unbearable opaqueness of Arp 220*”
Martín, S., Aalto, S., Sakamoto, K., González-Alfonso, E., Muller, S., Henkel, C., García-Burillo, S., Aladro, R., Costagliola, F., Harada, N., Krips, M., Martín-Pintado, J., Mühle, S., van der Werf, P., Viti, S.
 2016, *A&A*, 590, 25
70. “*SMA Observations of the Extended CO(6-5) Emission in the Starburst Galaxy NGC253*”
 Krips, M., **Martín, S.**, Peck, A., Sakamoto, K., Neri, R., Gurwell, M., Petitpas, G., Zhao, J.-H.
 2016, *ApJ*, 821, 112
69. “*Dense circum-nuclear molecular gas in starburst galaxies*”
 Green, C.-E., Cunningham, M.R., Green, J.A., Dawson, J.R., Jones, P.A., López-Sánchez, A.R., Verdes-Montenegro, L., Henkel, C., Baan, W.A., **Martín, S.**
 2016, *MNRAS*, 457, 2470
68. “*Submillimeter-HCN Diagram for an Energy Diagnostics in the Centers of Galaxies*”
 Izumi, T., Kohno, K., Aalto, S., Espada, D., Fathi, K., Harada, N., Hatsukade, B., Hsieh, P.-Y., Imanishi, M., Krips, M., **Martín, S.**, Matsushita, S., Meier, D.S., Nakai, N., Nakanishi, K., Schinnerer, E., Sheth, K., Terashima, Y., Turner, J.L.
 2016, *ApJ*, 818, 42

2015

67. “*Chemical features in the circumnuclear disk of the Galactic center*”
 Harada, N., Riquelme, D., Viti, S., Jiménez-Serra, I., Requena-Torres, M.A., Menten, K.M., **Martín, S.**, Aladro, R., Martín-Pintado, J., Hochgürtel, S.
 2015, *A&A*, 584, 102
66. “*Probing highly obscured, self-absorbed galaxy nuclei with vibrationally excited HCN*”
 Aalto, S., **Martín, S.**, Costagliola, F., Gonzalez-Alfonso, E., Muller, S., Sakamoto, K., Fuller, G.A., García-Burillo, S., van der Werf, P., Neri, R., Spaans, M., Combes, F., Viti, S., Mühle, S., Armus, L., Evans, A., Sturm, E., Cernicharo, J., Henkel, C., Greve, T.R.
 2015, *A&A*, 584, 42
65. “*Molecular Gas and Star Formation in the Cartwheel*”
 Higdon, J.L., Higdon, S.J.U., **Martín, S.**, Rand, R.J.
 2015, *ApJ*, 814, 1
64. “*The OH-streamer in Sgr A revisited: analysis of hydroxyl absorption within 10 pc from the Galactic centre*”
 Karlsson, R., Sandqvist, A., Fathi, K., **Martín, S.**
 2015, *A&A*, 582, 118
63. “*Exploring the molecular chemistry and excitation in obscured luminous infrared galaxies: An ALMA mm-wave spectral scan of NGC 4418*”
 Costagliola, F., Sakamoto, K., Muller, S., **Martín, S.**, Aalto, S., Harada, N., van der

Werf, P., Viti, S., García-Burillo, S., Spaans, M.
2015, *A&A*, 582, 91

62. “ALMA Observations of the Submillimeter Dense Molecular Gas Tracers in the Luminous Type-1 Active Nucleus of NGC 7469”
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PI CONFERENCE PROCEEDINGS

7. “*Extra-Galactic Line Surveys*” **Sergio Martín** in Proceedings of The Molecular Universe. Proceedings of the International Astronomical Union, IAU Symposium, Volume 280, p. 351-360 (***Invited Talk***).
6. “*Observing the Molecular Composition of Galaxies*” **Sergio Martín** in Proceedings of Bioastronomy 2007, Molecules, Microbes and Extraterrestrial Life. Ed. by Karen J. Meech, Jaqueline V. Keane, Michael J. Mumma, Janet L. Siefert, and Dan J. Werthimer. ASP Conference Series, Vol. 420. San Francisco: Astronomical Society of the Pacific, 2009., p.19 (***Invited Talk***).
5. “*The Chemical Evolution of Starbursts*” **Sergio Martín** in Proceedings of The Starburst-AGN Connection. Ed. by Weimin Wang, Zhaoqing Yang, Zhijian Luo, and Zhu Chen. ASP Conference Series, Vol. 408. San Francisco: Astronomical Society of the Pacific, 2009., p.322
4. “*The Galactic Center as nearby extragalactic chemical laboratory*”
Martín, S., Requena-Torres, M.A., Martín-Pintado, J., Mauersberger, R.
2007, Ap&SS, 365
3. “*The 2 mm line survey of the starburst galaxy NGC 253: sulfur chemistry*” **Martín, S.**, Martín-Pintado, J., Mauersberger, R., Henkel, C., García-Burillo, S. in Proceedings of the dusty and molecular universe: a prelude to Herschel and ALMA, Ed. by A. Wilson. ESA SP-577, Noordwijk, Netherlands: ESA Publications Division, ISBN 92-9092-855-7, 2005, p. 297 - 298
2. “*Extragalactic sulfur chemistry*” **Sergio Martín** in Proceedings of the evolution of starbursts, Ed. by S. Hüttemeister, E. Manthey, D. Bomans & K. Weis. AIP conference proceedings, 2005, Volume 783, Issue 1, p. 148 - 154
1. “*The spectral line survey of NGC 253*” **Martín, S.**, Mauersberger, R., Martín-Pintado, J., Henkel, C., García-Burillo, S. in The Dense Interstellar Medium in Galaxies, Proceedings of the 4th Cologne-Bonn-Zermatt Symposium, Zermatt, Edited by S.Pfalzner, C. Kramer, C. Staubmeier, and A. Heithausen. Springer proceedings in physics, Vol. 91. Berlin, Heidelberg: Springer, 2004, p.173

OTHER CONTRIBUTIONS

SEMINARS

13. 3 May 2018 “*MADCUBA and SLIM: A lightweight software package for datacube handling and spectral line analysis*”
JAO, Santiago, Chile
12. 14 Sept 2014, “*Chemistry in the galactic centers at Galactic center resolution*”
IRAM, Grenoble, France
11. 29 Oct 2014, “*Chemistry in the galactic centers at Galactic center resolution*”
LAOG, Grenoble, France
10. 28 Aug 2012, “*The Galactic Center CND chemistry at high resolution: A subparsec scale extragalactic laboratory*”
UCLA, CA, US
9. 13 May 2011, “*An intuitive approach to interferometry basics*”
European Southern Observatory Headquarters, Santiago, Chile
8. 5 Aug 2010, “*ALMA What is going on?*”
Report on ALMA status at IRAM, Granada, Spain
7. 24 Jun 2010, “*Extra galactic line surveys in the ALMA era*”
ALMA science talk, Santiago, Chile
6. 23 Jun 2010, “*Extragalactic Chemistry: From Starbursts to AGNs and beyond*”
Science talk at Cerro Calan, Universidad de Chile, Santiago, Chile
5. 21 Nov 2006, “*Extragalactic chemistry*”
AMIGA meeting, IAA, Granada, Spain
4. 20 Oct 2006, “*Extragalactic chemistry: mm and submm observations*”
RG Division Lunch Talk, Harvard-Smithsonian Center for Astrophysics, Cambridge, MA, USA
3. 19 Jul 2005, “*Chemical complexity in galaxies: The NGC 253 line survey*”
Joint Astronomy Centre, Hilo, HI, USA
2. 30 Jun 2004, “*Sulphur chemistry in the the starburst galaxy NGC 253*”
Ruhr-Universität Bochum, Germany
1. 17 Sep 2003, “*The 2mm line survey of NGC 253*”
Max-Planck-Institut für Radioastronomie, Bonn, Germany

PI CONFERENCE CONTRIBUTIONS

37. “*ALCHEMI: The ALMA Comprehensive High-resolution Extragalactic Molecular Inventory*”
Sergio Martín EWASS 2018, 3-6 Apr 2018, Liverpool, UK (*Poster Contribution Talk*)
36. “*MADCUBA and SLIM: A lightweight software package for datacube handling and spectral line analysis*”
Sergio Martín EWASS 2018, 3-6 Apr 2018, Liverpool, UK (*Oral Contribution*)
35. “*Molecular Observations in nearby Universe with ALMA*”
Sergio Martín II International Astrochemistry School, 3 Oct 2018, Universidad Autónoma de Chile, Santiago, Chile (*Invited Talk*)
34. “*Molecular gas imaging in the nearby Universe*”
Sergio Martín The ALMA Quest for Our Cosmic Origins: A Symposium to Honor Pierre Cox, 27 Mar 2018, ESO, Santiago, Chile (*Invited Talk*)
33. “*Compact Obscured Nuclei*”
Sergio Martín Miniworkshop: Molecules as tools Probing the Growth of Galaxies, 4 Sept 2017, Chalmers University, Goteborg, Sweden (*Invited Talk*)
32. “*Ultraluminous Extragalactic Chemistry*” **Sergio Martín** ‘IAUS 332: Astrochemistry VII Through the Cosmos from Galaxies to Planets’, 20 March 2017, Puerto Varas, Chile (*Contributed Talk*).
31. “*ALMA update: Towards Cycle 5*” **Sergio Martín** ‘SMA science in the Next Decade’, 28 October 2016, Taipei, Taiwan (*Invited Talk*).
30. “*The Unbearable Opaqueness of Obscured Nuclei*” **Sergio Martín** in XGAL2016 ‘Molecular Gas in Galactic Environments’, 5 April 2016, Charlottesville, Virginia, US (*Invited Talk*).
29. “*Molecules in action. Extragalactic ISM at high resolution*” **Sergio Martín** in IAU symposium 315 ‘From interstellar clouds to star-forming galaxies: universal processes?’, IAU General Assembly, 4 Aug 2015, Honolulu, Hawaii, US (*Invited Talk*).
28. “*High resolution spectroscopy of Luminous Galaxies*” **Sergio Martín** in From Herschel to ALMA and Beyond, 15 May 2015, Zakopane, Poland (*Invited Talk*).
27. “*What lines are good shock indicators? Extra-galactic perspective*” **Sergio Martín** in Chemical Diagnostics in the ALMA/NOEMA Era, 23 Jul 2014, Max-Planck-Institut für Astronomie, Heidelberg, Germany (*Invited Talk*).
26. “*Molecular line e-surveys: Craving high resolution*” **Sergio Martín** in Behind the curtain of dust - the molecular view of activity in (U)LIRGs, 15 Jul 2014, Sesto, Italy (*Oral Contribution*).

25. “*Extra-galactic Line Surveys*” **Sergio Martín** in Structure and CHemistry of the Inter-Stellar Medium Workshop, 12 Dec 2014, Observatoire de Paris, Meudon, France (***Invited Talk***).
24. “*MADCUBA_IJ: A new software for Molecular Analysis*” **Sergio Martín** in The First Year of ALMA Science, 12 Dec 2012, Puerto Varas, Chile (***Poster contribution***).
23. “*Extragalactic astrochemistry*” **Sergio Martín** in Astrochemistry in the ALMA era, 30 Jan 2013, Copenhagen, Denmark (***Invited Talks***).
22. “*Galactic Center molecular line surveys at high resolution*” **Sergio Martín** in Multiwavelength Surveys: a vintage decade, 5 Jun 2012, Hunter Valley, Australia (***Oral Contribution***).
21. “*Astro-chemistry outside our own galaxy*” (2 talks: *Tutorial+Research*) **Sergio Martín** in Negative ions and molecules in astrophysics, 22-24 Aug 2011, Gothenborg, Sweden (***Two Invited Talks***).
20. “*Molecular composition in the nearby Universe*” **Sergio Martín** in Multiwavelength Views of the ISM in High-Redshift Galaxies, 27-30 June 2011, Santiago, Chile (*Oral contribution*).
19. “*Extragalactic line surveys*” **Sergio Martín** in IAU Symposium 280 “The Molecular Universe” 30 May-3 June 2011, Toledo, Spain (***Invited Talk***).
18. “*Dissecting the ISM in the nuclei of galaxies through chemistry*” **Sergio Martín** in Spectroscopy 2011: Extending the limits of astrophysical spectroscopy, 15-17 Jan 2011, Victoria, British Columbia, Canada (*Poster contribution*).
17. “*ExtraGalactic molecular complexity prior to the ALMA era*” **Sergio Martín** in Joint Observatories Science Meeting, 22-23 Nov 2010, ESO, Santiago, Chile (*Oral contribution*).
16. “*Extreme ULIRG chemistry: Arp 220 SMA Line Survey*” **Sergio Martín** in Molecules in Galaxies, 26-30 Jul 2010, University of Oxford, UK (*Oral contribution*).
15. “*Chemical Composition in Galactic Nuclei: From Galactic Center to ULIRGs*” **Sergio Martín** in Millimeter and Submillimeter Astronomy at High Angular Resolution, 8-12 Jun 2009, Taipei, Taiwan (*Oral contribution*).
14. “*Chemical Composition in Galactic Nuclei: From Galactic Center to ULIRGs*” **Sergio Martín** in CfA SMA Science Symposium 2009, 15 Apr 2009, Cambridge, MA, USA (*Oral contribution*).
13. “*Spectral line surveys in the ALMA era*” **Sergio Martín** in Impact of ALMA on the Spanish extragalactic astronomy, 11-13 Feb 2009, Granada, Spain (*Oral contribution*).
12. “*The chemical evolution of starbursts*” **Sergio Martín** in The Starburst-AGN Connection Conference, 27-31 Oct 2008, Shanghai, China (*Oral contribution*).

11. “*Molecular Tracers in Galaxies*” **Sergio Martín** in *Interstellar Medium and Star formation with ALMA: A workshop in the honour of Tom Wilson*, 16-17 June 2008, Madrid, Spain (*Oral contribution*).
10. “*The extragalactic molecular universe*” **Sergio Martín** in *The Molecular Universe: an International Meeting on the Physics and Chemistry of the Interstellar Medium*, 5-8 May 2008, Arcachon, France (*Oral contribution*).
9. “*Observing the Molecular Composition of Galaxies*” **Sergio Martín** in *Bioastronomy 2007, Molecules, Microbes and Extraterrestrial Life*, 16 - 20 July 2007, San Juan, Puerto Rico (***Invited Talk***).
8. “*The Galactic Center as nearby extragalactic chemical laboratory through Molecular line surveys*” **Sergio Martín** in *Science with ALMA: a new era for Astrophysics*, 13 - 17 November 2006, Madrid, Spain (*Oral contribution*).
7. “*Extragalactic molecular line surveys: the starburst galaxy NGC 253*” **Martín, S.**, Mauersberger, R., Martín-Pintado, J., Henkel, C., García-Burillo, S. in *Astrochemistry Throughout the Universe: Recent Successes and Current Challenges*, IAU symposium 231 29 Aug - 2 Sep 2005, Asilomar, Monterey, California, USA (*Poster contribution*).
6. “*Extragalactic spectral line surveys: the starburst galaxy NGC 253*” **Martín, S.**, Mauersberger, R., Martín-Pintado, J., Henkel, C., García-Burillo, S. in *Submillimeter Astronomy: in the era of the SMA* 13-16 June 2005, Cambridge, USA (*Poster contribution*).
5. “*The 2 mm line survey of the starburst galaxy NGC 253: sulfur chemistry*” **Martín, S.**, Martín-Pintado, J., Mauersberger, R., Henkel, C., García-Burillo, S. in *Proceedings of the dusty and molecular universe: a prelude to Herschel and ALMA*, 27-29 October 2004, Paris, France. Ed. by A. Wilson. ESA SP-577, Noordwijk, Netherlands: ESA Publications Division, ISBN 92-9092-855-7, 2005, p. 297 - 298 (*Poster contribution*).
4. “*Extragalactic sulfur chemistry*” **Sergio Martín** in *Proceedings of the evolution of starbursts*, 16-20 August, 2004, Bad Honnef, Germany. Ed. by S. Hüttemeister, E. Manthey, D. Bomans & K. Weis. AIP conference proceedings, 2005, Volume 783, Issue 1, p. 148 - 154 (*Oral contribution*).
3. “*The 2mm line survey of the starburst galaxy NGC 253*” **Martín Ruiz, Sergio** in 1^{er} Congreso Nacional de Astrofísica Molecular: Una visión general del potencial de los grupos de química españoles antes los nuevos desafíos de la Astrofísica., held in Ciudad Real, Spain, 1-4 December, 2003, p45 (*Oral contribution*).
2. “*The spectral line survey of NGC 253*” **Martín, S.**, Mauersberger, R., Martín-Pintado, J., Henkel, C., García-Burillo, S. in *The Dense Interstellar Medium in Galaxies*, Proceedings of the 4th Cologne-Bonn-Zermatt Symposium, Zermatt, Switzerland, 22-26 September 2003. Edited by S.Pfalzner, C. Kramer, C. Staubmeier, and A. Heithausen. Springer proceedings in physics, Vol. 91. Berlin, Heidelberg: Springer, 2004, p.173 (*Poster contribution*).

1. “*A molecular line survey of the starburst galaxy NGC 253*” **Martín Ruiz, Sergio** in The XXXIII Young European Radio Astronomers Conference (YERAC), Bonn, Germany 16-19 September, 2003 (*Oral contribution*)

PUBLIC OUTREACH

PUBLIC TALKS

- 2017-12-16 *“En busca de los orígenes de la vida en el Universo”*
Parque Metropolitano, Santiago, Chile
- 2017-09-29 *“Moléculas Prebióticas: En busca de los orígenes de la vida con ALMA”*
Instituto de Ciencias Biomédicas, Santiago, Chile
- 2017-09-04 *“Breaking news from ALMA observatory”*
Chalmers University, Göteborg, Sweden
- 2017-04-18 *“ALMA y sus cuentos cósmicos”*
SENAME, Santiago, Chile
- 2016-09-28 *“ALMA, la gran ventana al Universo Frío”*
CONSORCIO, Santiago, Chile
- 2015-11-09 *“ALMA, la gran ventana al Universo Frío”*
Exhibition: “ALMA in search of out cosmic origins”
Fundación Telefónica, Santiago, Chile
- 2013-10-10/11 *“Voyage de l’infiniment petit a l’infiniment grand”*
Fête de la Science 2013
Grenoble, France
- 2013-08-05 *“ALMA, la gran ventana al Universo Frío”*
Feria Científica Interescolar
Colegio Tomás Moro de San Miguel, Santiago, Chile
- 2012-07-19 *“El Universo a través de los ojos de ALMA”*
IV Olimpiadas Nacional de Astronomía y Astronáutica de Chile
Colegio Alemán de Los Angeles, Los Angeles, Chile
- 2011-10-07 *“Astroquímica a través de los ojos de ALMA”*
Fiesta de la Química, Semana de la Ciencia
Museo de Ciencias Naturales, Santiago, Chile

MEDIA INTERVIEWS

2016-12-12 TV5 (TV, France)
2016-11-14 Agencia EFE
2016-10-13 Agencia SINC
2016-01-18 TVChile (TV, Chile)
2015-09-29 Radio Bio Bio (Radio, Chile)
2015-08-17 National Geographic Australia (Magazine)
2013-08-23 COPE (Radio, Spain)
2013-05 Espacio (Magazine, Spain)
2013-03-13 NTN 24 (TV, Colombia)
2013-03-07 Deutsche Welle Latinoamérica (Radio, Germany)
2012-10-10 SRF (Swiss public radio, Switzerland)
2011-10-08 24H (TV, Chile)
2011-10-04 SBS (Radio, Australia)
2010-01-03 CNN Chile (TV, Chile)
2009-12-09 Chilevision (TV, Chile)
2009-11-09 Las Ultimas Noticias (Newspaper, Chile)

DOCUMENTARIES & TV PROGRAMS

2017-06-15 *“sept a huit”* TF1 (TV, France)
2012-11-19 *“Que hago yo aqui”* Cuatro (TV, Spain)
2012-08-06 *“Desert Science”*
produced by Katie Detwiler and directed by Paul Gallasch (Australia)

ATTENDED OUTREACH/MEDIA TRAINING

2012-07-17 ALMA Media Training
2010-01-26 ESO Media Training