

CLAUDIA DEL P. LAGOS

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RESEARCH INTERESTS

Galaxy formation and evolution. Expertise in theoretical modelling and simulations of physical processes in galaxies, such as gas accretion onto galaxies, star formation, stellar feedback, gas accretion onto black holes, etc. Large galaxy multi-wavelength and IFU surveys.

EDUCATION

PhD in Physics. Durham University, Oct. 2009 - Jan. 2013. *Thesis title:* The physics of galaxy formation. *Supervisors:* Prof. Carlton Baugh, Prof. Cedric Lacey.

Approved with no corrections, and awarded several prizes (see below).

Master in Astrophysics. Pontifical Catholic University of Chile, August 2007 - April 2009. *Thesis title:* The black hole spin and its relation with galaxy formation. *Supervisor:* Prof. Nelson Padilla.

Co-Supervisor: Prof. Sofía Cora (Universidad Nacional de La Plata).

Ranked first. Maximum Distinction.

Bachelor in Astronomy. Pontifical Catholic University of Chile, 2003 – 2007. *Thesis title:* The effects of AGN feedback in galaxy formation. *Supervisor:* Prof. Nelson Padilla. *Co-Supervisor:* Prof. Sofía Cora (Universidad Nacional de La Plata).

Ranked First. Maximum Distinction.

RESEARCH CAREER

Note that I had a *career break* from December 2020 to September 2021, worked at 0.7FTE capacity from April-November 2022, and since then I work at a 0.8FTE capacity. Otherwise I have been employed full time since October 2012.

- **January 2023-to date.** Chair of the theory and computing group at the International Centre for Radio Astronomy Research.
- **June 2022-to date.** Associate Professor at the University of Western Australia, Perth, WA, Australia.
- **June 2018-March 2023.** ASTRO 3D Senior Research Fellow and Assistant Professor at the International Centre for Radio Astronomy Research, University of Western Australia.
- **May 2015-June 2018.** ARC Discovery Early Career Research Fellow at the International Centre for Radio Astronomy Research, University of Western Australia.
- **October 2012-April 2015.** European Southern Observatory Fellowship, Garching, Munich.
- **October 2009-September 2012.** Science and Technology Facilities Council graduate student, Durham University, UK. STFC-Gemini fellowship (one fellowship offered per year in Chile).

HONOURS, AWARDS AND GRANTS

Total won as chief investigator 1, 314, 357AUD. Breakdown is below:

(1) *Large grants:*

2020 Discovery Project 2021 “Beacons in the night: unveiling how galaxies light up dark matter” (P.I. Lagos), 645, 000AUD.

- 2017 Danish Centre of Excellence DAWN (P.I. Sune Toft), 66,000,000Kr. Position within the organisation: international associate investigator.
- 2015 Awarded a MERAC funding award of 100,000EUR, with a matching 50,000EUR from the University of Western Australia (PI Lagos).
- 2015 Discovery Project 2016 “The Fundamental Physics of Galaxy Formation” (P.I. Glazebrook), 560,000AUD.
- 2014 Discovery Early Career Researcher Award 2015 (P.I. Lagos), 354,000AUD.

(2) *Smaller grants:*

- 2019 30,000AUD for the organization of Australia-ESO2020 conference to be held in Perth. Funding bodies: ESO, ASTRO 3D, Macquarie University, ICRAR and CSIRO.
- 2018 Invited professor programme at University of Lyon France. 4 weeks visit during 2018 (5,000EUR).
- 2017 Research Collaboration Award 2018, University Western Australia for collaborative trips between Leiden/Perth, 29,000AUD (PI Lagos).
- 2017 Visiting researcher Cardiff University 2,400 GBP. To work with Lecturer Dr. Timothy Davis.
- 2016 Institute for Advance Studies UWA ECR Distinguished fellow, 5,000 AUD. Awarded once a year to one fellow in science.
- 2015 Research Collaboration Award 2016, University Western Australia for collaborative trips between Chile/Melbourne/Perth, 17,000AUD (PI Lagos).
- 2014 Research Collaboration Award 2015, University Western Australia for collaborative trips between Hertfordshire/Perth, 10,610AUD (PI Lagos).

(3) *Prizes:*

- 2020 IUPAP Young Scientist Prize in Astrophysics. For outstanding work by an early-career researcher.
- 2014 Distinguished as one of 100 Young Leaders in Chile by Chilean Magazine ‘El Sábado’ which belongs to Newspaper ‘El Mercurio’.
- 2014 Distinguished as one of 100 Women Leaders in Chile by Chilean Newspaper ‘El Mercurio’.
- 2014 MERAC Prize for best PhD thesis in Theoretical Astrophysics in Europe, 20,000EUR. Given by the European Astronomical Society on even years.
- 2013 The Springer Thesis prize (awarded to the best 3 PhD theses of the year in Physics Worldwide). Full Thesis can be found in Springer Publisher and Amazon.
- 2012 The Keith Nicholas Prize in Physics (awarded to the best final year postgraduate student in Physics at Durham University).
- 2007 Recipient of the “Latin-American European Network for Astrophysics and Cosmology” (LENAC) fellowship to do undergraduate research with Prof. Sofia Cora in La Plata university, Argentina.
- 2005-2006 Honour award for academic excellence for two consecutive years (awarded to the best student of the year at Universidad Catolica).

SUPERVISION, EDUCATION AND MENTORING ROLES

- **Supervision of students and postdocs**

Current Postdocs: Giulia Santucci (May 2022-); Kate Harborne (July 2022-); Connor Bottrell (May 2023-).

Former Postdocs: Pascal Elahi (April 2016-July 2017 - currently Senior Software Engineer PAWSEY), Liang Wang (September 2016-December 2018 - currently data researcher at CSIRO), Adam Stevens (July 2017-July 2019 - currently Jim Buckee Fellow at UWA). Lillian Garratt-Smithson (July 2018-July 2021 - currently on second postdoc at UWA).

Current PhD students: Matt Wilkinson (February 2020-); Esteban Jimenez (February 2020-); Katy Proctor (March 2021-); Jordan D'Silva (March 2022-); Angel Chandro-Gomez (February 2023-).

Former PhD students. Jie Lie (August 2019-September 2023); Ruby Wright (August 2018 - April 2022; Fellow at Helsinki University); Matias Bravo (March 2018 - April 2022; Herschel Fellow); Garima Chahuan (ICRAR; September 2017 - December 2020; senior consultant R&D EY); Rodrigo Cañas (ICRAR; April 2016 - December 2019; postdoc at Universidad Autonoma de Madrid, Spain); Ahmed Elagali (ICRAR; April 2016 - December 2019; Senior researcher in Epidemiology); Florencia Collacchioni (La Plata University January 2016 - December 2020; CONICET postdoc).

Former Master or Honours students: Mia Williams (June 2022 - June 2023); Samuel Hansen (March 2022 - June 2023); Jordan D'Silva (August 2019 - December 2021 - gone onto a PhD at UWA); Katy Proctor (ICRAR; February 2019-December 2020 - gone onto a PhD at UWA). Jie Li (ICRAR; 2017-2019; graduated in June 2019 - gone onto a PhD at UWA); Ruby Wright (ICRAR; August 2017-June 2018 - gone onto a PhD at UWA); Joe Grundy (ICRAR; March-November 2017 - gone onto PhD at Curtin University); Enrique Paillas (Pontificia Universidad Catolica de Chile; External supervisor 2015-2017; gone onto a PhD at PUC); Catalina Casanueva (PUC; February 2019-November 2019 - gone onto a PhD at PUC).

- **Teaching**

Lectures and labs.

- (1) Physics Department, UWA, since March 2019. “Galaxies and galaxy dynamics”.
- (2) Physics Department, UWA, July 2015-December 2016. Presentation and critical thinking skills through journal club.

- **Mentoring**

UWA Mentorloop. Acting as mentor for ECRs at UWA since 2023.

Career Mentor Link. Acting as mentor at the programme (organised by UWA) since March 2016.

Academic mentoring at UWA. Acting as mentor at the programme (organised by UWA) since January 2017.

CAASTRO mentoring programme. Acting as mentor at the programme since March 2016.

PROFESSIONAL ACTIVITIES

- **Journal roles, Telescope TACs and roles as international assessor**

Editorial board. Member of the Editorial board of Astronomy & Computing (Elsevier) since June 2023.

Time Allocation Committees. James Webb Space Telescope (from 2023). Hubble Space Telescope (from 2022). Astronomy Data and Compute Services (ADACS, from 2023). Subaru Telescope in the area of High-z Galaxies (LAEs,LBGs) (2018-2022). ALMA international assessor in the area of high-redshift Universe and Cosmology (2016-2018).

International Grant Assessor. For the European Research Council (since 2022); for the Swiss Science Foundation (since June 2023); for the Max Planck Institute Partner Scheme (since May 2020); for the Netherlands Organisation for Scientific Research (since June 2016); for the Australian Research Council (since January 2015); the Chilean Science Agency (CONICYT) (since June 2016); the Natural Sciences and Engineering Research Council of Canada (since October 2016).

Masters and PhD Examiner. PhDs: Genevive Shattow (Swinburne University, 2015), Christopher Duckworth (St Andrews University, 2020); Angel Calette (UNAM, 2020); Gauri Sharma (SISSA, 2021); Daniel Walo-Martin (IAC, UL, 2022); Markus Mosbech (USydney, 2023). Masters: Master proposal and theses assessor at ICRAR/UWA during 2016-2018; MPhil Margarita Luna (Durham, 2022).

Journal Referee. In The Astrophysical Journal (since 2013), Monthly Notices of the Royal Astronomical Society (since 2013), Astronomy&Astrophysics (since 2017), Revista Mexicana de Astronomia (since 2017), Nature Astronomy (since 2018).

• Roles in Professional Organisations

Astronomy Australia Limited. Member of the AAL Science Advisory Committee since January 2022.

Astronomy Data and Compute Services. ASAC representative in the time allocation committee 2023.

IAU Women in Astronomy Working Group. Member since 2018.

ASTRO 3D Committee of diversity and inclusion. Member 2018 to 2019.

European Astronomical Society working group on Ethics. Member and founder (together with Prof. Johan Knapen) of working group, 2016. Astronomer on Duty Cycle 1 and 2; Phase-II scheduling block preparation. Analyst of Quality Assurance of ALMA data.

• Participation in Centres of Excellence

DAWN. International Associate investigator Danish Centre of Excellence. Since January 2017.

ASTRO 3D. Associate investigator ARC Centre of Excellence for Astrophysics in 3D. Since October 2016. Genesis simulation “low-redshift” working group coordinator.

CAASTRO. Associate investigator ARC Centre of Excellence for All-Sky Astrophysics. Since October 2015.

• Telescope Surveys

MAGPI. MUSE Large program to study galaxy evolution during the last 4 billion years. Responsibility: PI and chair of simulation’s working group (since March 2019).

4HS. Southern Hemisphere redshift survey with 4MOST. Responsibility: Member of Exec committee and chair of Simulations group (since July 2020).

RAGERS. Environment studies around high-redshift radio galaxies. Responsibility: Member of the survey (since 2020).

VERTICO. ALMA Large program to study galaxy transformation in the Virgo Cluster. Responsibility: Member of Exec committee and lead of Simulations group (since July 2019).

OutThere. JWST Cycle 1 survey to study quenched, massive galaxies at $z > 3$. Responsibility: team member.

ALCS. ALMA Large Program of Galaxy Cluster Fields. Responsibility: team member (since 2020).

BUFFALO. HST Large programme to study the large scale structure around the HFF clusters. Responsibility: Co-chair of simulations working group (since September 2018).

DEVILS. AAT Large programme to unveil galaxy evolution over at $0.3 < z < 0.8$. Responsibility: Simulations leader and exec committee (since June 2016).

GECKOS. MUSE Large Program to study edge-on Milky-Way analogues in the local Universe. Responsibility: team member and provide simulations.

MAUVE. MUSE Large Program to study galaxies in the Virgo Cluster. Responsibility: team member and provide simulations.

HECTOR. AAT IFU instrument and galaxy survey. Responsibility: Simulations leader and exec committee (since December 2017).

SAMI. AAT IFU instrument and galaxy survey. Responsibility: Part of the simulations team and team member (since October 2018).

WAVES. WAVES is a massively multiplexed spectroscopic survey of 2 million galaxies due to commence on the VISTA telescope as part of the 4MOST Consortium's suite of surveys. Responsibility: part of simulations group. Since July 2015.

RESOLVE. The REsolved Spectroscopy Of a Local VolumE survey. Responsibility: provide simulations support. Since October 2014.

WALLABY. The ASKAP wide all galaxy survey. Responsibility: part of simulations group. Since April 2014.

DINGO. The ASKAP deep-HI survey. Responsibility: part of simulations group. Since January 2016.

FLASH. The ASKAP HI-absorption lines survey. Responsibility: part of simulations group. Since May 2015.

SERVS. The Spitzer Extragalactic Representative Volume Survey. Responsibility: part of simulations group. Since April 2013.

ALPACA. ALMA collaboration to study galaxy formation evolution with ALMA (led by Japanese scientists). Responsibility: provide simulations support. Since Nov. 2015.

COALAS. ATCA Large programme to study dusty star-forming galaxies. Responsibility: provide simulations support. Since June 2016.

- **Telescope and computing time as PI**

Successful Telescope time as PI.

- (1) ALMA Cycle 4, awarded 5 hours in band 7, 8 and 9.
- (2) MUSE P104, awarded 340+ hours total time. PIs: Caro Foster, Claudia Lagos, Trevor Mendel, Emily Wisnioski, Tiantian Yuan.

Successful Computing time as PI.

- (9) Pawsey partnership 1.85M CPU hours 2023.
- (8) Pawsey partnership 1.85M CPU hours 2022.
- (7) Pawsey partnership 2.56M CPU hours 2021.
- (6) Pawsey partnership 1.5M CPU hours 2020.
- (5) Pawsey partnership 1.6M CPU hours 2019.
- (4) Pawsey partnership 1.5M CPU hours 2018.
- (3) Pawsey partnership 1.1M CPU hours 2017.
- (1) Pawsey partnership 0.87M CPU hours 2016.
- (2) CAASTRO 0.5M CPU hours 2015.

- **Societies membership and relevant experience**

Association for Tertiary Education Management. Since May 2017.

The European Astronomical Society. Since September 2014.

European Astronomical Society working group on Ethics. Member and founder (together with Prof. Johan Knapen) of working group, 2016.

The European ALMA Regional Centre. January 2013-March 2015. Acted as ALMA helpdesk; Astronomer on Duty Cycle 1 and 2; Phase-II scheduling block preparation. Analyst of Quality Assurance of ALMA data.

- **Organisation**

Australia-ESO 2020: The build-up of galaxies through multiple tracers and facilities. Large international conference held in Perth 17-22 February 2020 (chair SOC).

Mock Perth: Challenges for Simulations in the Era of SKA and Large IFU Surveys. Workshop held in Perth 20-22 March 2017 (chair SOC and LOC).

Diversity in Astronomy. Special session at EWASS, July 2016, Athens (SOC co-chair).

3D2014: Gas and stars in galaxies: A multi-wavelength 3D perspective. 14-18th March 2014, Local Organising Committee.

ALMA community days: preparing for ALMA cycle 2. 19-20th November 2013, Local Organising Committee.

ESO extragalactic workshop. 28th November 2012, Local and Scientific Organising Committee.

Journal clubs organization. ICRAR weekly journal club, ESO weekly journal club, the weekly Garching nearby galaxies coffee, postgraduate journal club at Durham and GALFORM lunch at Durham.

Scientific Organizing Committees. Participating in SOCs of international conferences since 2016.

- **Outreach**

Speaker at Feria Internacional del Libro de Guadalajara 2020. Largest latin-american cultural event, which happens yearly in Mexico. This is the second largest book fair in the world.

Speaker at Youtube series organised by ICRAR 2020.

Keynote Speaker at UWA research week 2020.

Weekly Space hangout 2017. On the subject of “Simulating our Universe”, September 2017.

Space club UWA 2017. On the subject of “Simulating our Universe”, August 2017.

Talk Pint of science 2017. On the subject of “Simulating our Universe”, May 2017.

CAASTRO Reader Digest. 2 research stories in 2015 and 2016.

Seminar UWA research week. On the subject of “Simulating our Universe”, September 2016.

Astronomy talk at Planetarium Perth, Australia. On the subject of “Simulating our Universe”, September 2015.

Astronomy talks at Schools. Giving talks at schools in Chile regularly since 2008 (to date), and in Australia since 2015.

Astronomy talk for Non-astronomers at ESO. On the subject of “Simulating our Universe”, March 2015.

Celebrating Science. October, 2011, Durham, United Kingdom. Organiser and demonstrator of the “Cosmic origins” exhibition presented by the Institute of Computational Cosmology.

The festival of sciences. June, 2010, London, United Kingdom. In commemoration of the 350th anniversary of the Royal Society. Demonstrator of the “Cosmic origins” exhibition presented by the Institute of Computational Cosmology.

Science exhibition. October, 2009, Durham, United Kingdom. Demonstrator of the “Cosmic origins” exhibition.

Nuestros orígenes: Año internacional de la astronomía. June, 2009, Santiago, Chile. Poster designs and demonstrator of the exhibition “Our origins: the international astronomy year”.

Speaker in primary and secondary schools 2007-to date. have also given several talks in primary and secondary schools in Santiago and Quillota in Chile about “Our Universe”.

- **Professional Development**

Leadership training for Senior Women in Astronomy. Training organised by the Centre of Excellence ASTRO 3D for senior women in astronomy and run by Nicole McKenna (all of 2023).

eLamp ATEM Leadership Training. Leadership and management training, June-November 2017.

Supervisory Training UWA. Managing HDR Student Progress 6th June 2017.

Fellow Training Programme at ESO. Designed to build transferable skills and competencies (project management, scientific writing).

INTERNATIONAL CONFERENCES AND SEMINARS

- **Invited Speaker at conferences and workshops**

(51) *Invited speaker "New Views on Feedback the Baryon Cycle in Galaxies".* Melbourne, Australia, July 2023.

(50) *Invited speaker EAS2023 SS20 "Reconstructing the Assembly History of Galaxies".* Poland, July 2023.

(49) *Invited speaker EAS2023 SS19 "The importance of relations in galaxy evolution: linking observations and theory in the Big Data era".* Poland, July, 2023.

(48) *Invited Speaker EAS2023 S2 "MERAC Symposium".* Poland, July, 2023.

(47) *Invited speaker "The Epoch of Galaxy Quenching".* Cambridge, UK, September, 2022.

(46) *Invited speaker "VLA Sky Survey in the Multiwavelength Spotlight".* NM, USA, September, 2022.

(45) *Invited Speaker "Insitu Galaxy Formation".* Ringberg, Germany, July, 2022.

(44) *Invited speaker "Resolving the Extragalactic Universe with ALMA".* Tokyo, November, 2021.

(43) *Invited speaker "Galaxies in the early Universe".* KIAS 9th Cosmology and Structure Formation Workshop. Seoul, South Korea, November 2020.

(42) *Invited speaker "Managing your PhD".* Harley Wood School of Astronomy, July, 2020.

(41) *Invited speaker at "Multiphase Gas in Galaxy Groups Workshop".* Charlottesville, USA, June 2020 - postponed.

(40) *Invited speaker at ESO workshop "Extragalactic Spectroscopic Surveys: Past, Present and Future of Galaxy Evolution".* Santiago, October 2020 - postponed.

(39) *Invited speaker at ESO workshop "Nine Billion Years of Neutral Gas Evolution".* Garching, July 2019.

(38) *Invited speaker at "LSST@Asia 2019".* Sydney, Australia, May 2019.

(37) *Invited speaker at Australia-ESO conference "Linking galaxies from the epoch of initial star formation to today".* Sydney, Australia, February 2019.

(36) *Invited speaker at PHISCC 2019.* Perth, Australia, February 2019.

(35) *Invited speaker at "Theoretical Advances Guided by Radio-Millimeter-Submillimeter Arrays" special session at the 233rd meeting of the AAS.* Seattle, USA, January 2019.

- (34) *Invited speaker at KIAS 8th Cosmology and Structure Formation Workshop*. Seoul, South Korea, November 2018.
- (33) *Review speaker at IAU GA focus meeting “Galactic Angular Momentum”*. Vienna, Austria, IAU GA, August 2018.
- (32) *Invited speaker at Mock Durham Workshop*. Durham, UK, April 2018.
- (31) *Invited speaker at workshop “Galaxy Evolution in Groups and Clusters at ‘low’ Redshift: Theory and Observations”*. Ringber Castle, Germany, December 2017.
- (30) *Invited speaker at workshop “GAMA: Final data release, legacy, and future galaxy evolution surveys”*. Perth, Australia, November, 2017.
- (29) *Invited speaker at the conference “The galaxy ecosystem. Flow of baryons through galaxies”*. Garching, Germany, July, 2017.
- (28) *Invited review speaker and participant of MIAPP programme “In & Out. What rules the Baryon Cycle?”*. Garching Germany, June/July 2017.
- (27) *Invited review speaker at the conference “What Matter(s) Around Galaxies”*. Durham, UK, June 2017.
- (26) *Invited review speaker at the workshop “From Field to clusters–HI as a tracer of galaxy evolution”*. Melbourne, Australia on the 8th-10th of March 2017.
- (25) *Invited review speaker at workshop “The Universal Problem of the Non-Universal IMF”*. Lorentz, Leiden, The Netherlands, 5th-9th Dec 2016.
- (24) *Invited Speaker at the conference “Changing face of galaxies”*. Tasmania, Australia, September 2016.
- (23) *Invited Speaker on the EWASS session “How galaxies live and die: the onset and end of star formation across cosmic time”*. Greece, July, 2016.
- (22) *Invited Speaker on HI simulations for the ASKAP 2016 conference*. Sydney, June, 2016.
- (21) *Participant and speaker on simulations of the ISM of galaxies*. KAVLI workshop “The Cold Universe”, April 25 to July 15, 2016, Santa Barbara, USA.
- (20) *Review talk simulations of the ISM of galaxies*. ALPACA workshop, NOAJ, Japan, December 2015.
- (19) *Review talk simulations of the ISM of galaxies*. COSMOCRUISE 2015: At the Edge of Discovery, September 2015.
- (18) *Review talk on Galaxy formation model in the era of ALMA and the SKA*. The National meeting of the Australian Society for Astronomy, Freemantle, WA, 07/2015.
- (17) *Review talk on modelling the star formation*. Symposium “What happened to the gas? Understanding the evolution of galaxies” during the European Week of Astronomy and Space Sciences, Tenerife, Spain, 06/2015.
- (16) *Evolution of molecular and atomic gas and stars in galaxies and scaling relations*. Multiwavelength Dissection of Galaxies, Sydney, 05/2015.
- (15) *ESO in the 2020s*. Invited Cosmology Panel Member, Garching, Germany, 01/2015.
- (14) *A complementary view of galaxy assembly over cosmic time in simulations*. Invited talk at the Lorentz Workshop “Decoding the Assembly History of Galaxies”, Leiden, The Netherlands, 10/2014.

- (13) *The molecular and atomic gas content of galaxies over cosmic time: the perspective of semi-analytic models.* Invited review talk in the conference “The Role of Hydrogen in the Formation of Galaxies”, Kuching, Malaysia, 09/2014.
- (12) *The physics of galaxy formation: star formation and gas in galaxies.* Invited plenary talk at European Week of Astronomy and Astrophysics, 06/2014, Geneva, Switzerland.
- (11) *The neutral gas content of galaxies: the perspective of semi-analytic models.* Invited talk in the workshop “Gas in and around galaxies”, Ringberg, Germany, 05/2014.
- (10) *Gas in galaxies: The state-of-the-art in semi-analytic models.* Invited review talk in the workshop “7th International PHISCC Workshop - The Challenges of Upcoming HI Surveys”, Dwingeloo, the Netherlands, 03/2014.
- (9) *Outflows in a multi-phase Interstellar medium: semi-analytic approach.* Invited talk in the workshop “Galactic Winds Near and Far”, Ringberg, Germany, 06/2013.
- (8) *The cold gas content of galaxies: the perspective of galaxy formation models.* Invited review talk in the workshop “Far-infrared emission as window to study the formation of galaxies, Black Holes and dust in the young universe”, Ringberg, Germany, 05/2013.
- (7) *Galaxy Formation Models - Gas in Galaxies.* Invited talk in the workshop “Synthetic Universes for Future Surveys”, Trieste, Italy, 03/2013.
- (6) *Theoretical predictions on the cosmic evolution of the molecular and atomic gas.* Invited talk in the conference “The Physics of Star Formation and its Role in Galaxy Evolution”, Trieste, Italy, 10/2012.
- (5) *Modelling and simulating molecular gas in galaxies.* Invited review talk in the workshop “Molecular Emission at High Redshift Comes of Age”, NRAO, Charlottesville, Virginia, USA, 09/2012.
- (4) *Cosmic evolution of the atomic, molecular and CO content of galaxies.* Highlight talk in the symposium “Molecular gas in high redshift galaxies” within the European Week of Astronomy and Space Science EWASS 2012, Rome, Italy, 07/2012.
- (3) *Understanding the connection between star formation, molecular hydrogen and CO in galaxies.* Invited talk in the workshop “AMIGA: meeting observers and modellers”, Granada, Spain, 05/2012.
- (2) *Star formation: observations, theory and semi-analytic models* COSMOCOMP workshop in star formation and chemical enrichment, Invited Lecturer, Trieste, Italy, 03/2012.
- (1) *How can new galaxy surveys help constrain the physics of galaxy formation?* VST ATLAS science Kick-off workshop, Invited Talk, Durham University, United Kingdom, 12/2011.

• **Contributed Talks in conferences or workshops**

- (25) *Can spectral stacking reveal the HI content of halos?* ACAMAR workshop on “Gas in and around galaxies”, Perth, Australia, 07/2023.
- (24) *Can spectral stacking reveal the HI content of halos?* Computational Astrophysics in the ngVLA Era, NY, USA, 06/2022.
- (23) *Dust galaxies across cosmic time: The perspective of galaxy formation simulations.* The Rise of Metals and Dust in Galaxies through Cosmic Time, Marseille, France, 10/2020.
- (22) *Angular momentum evolution of galaxies in the EAGLE simulation.* The European Astronomy Society Annual Meeting, Leiden, Netherlands, 07/2020.
- (21) *The panchromatic emission of galaxies in cosmological galaxy formation simulations.* Aus-ESO2020, Perth, Australia, 02/2020.

- (20) *Angular momentum evolution of galaxies in the EAGLE simulation*. AAS 223rd meeting, Seattle, USA, 01/2019.
- (19) *SURFS experiments: synthetic Universes for Future Surveys*. Virgo Meeting, Durham, UK, 12/2016.
- (18) *Guided discussion on socio-economic disadvantages for students from developing countries*. Special session on “Diversity in Astronomy”, EWASS, Athens, July 2016.
- (17) *The origin of the gas in early-type galaxies*. Symposium “Deconstructing Massive Galaxy Formation” during the European Week of Astronomy and Space Sciences, Tenerife, Spain, 06/2015.
- (16) *Which galaxies dominate the molecular gas content of the universe?*. European Week of Astronomy and Astrophysics, 06/2014, Geneva, Switzerland.
- (15) *Galaxy formation & Dark matter modelling in the Era of the SKA*. Advancing Astrophysics with the SKA, 06/2014, Sicily, Italy.
- (14) *Which galaxies dominate the neutral gas content of the Universe?* The formation and growth of galaxies in the young Universe, 04/2014, Tyrol, Austria.
- (13) *Which galaxies dominate the neutral gas content of the Universe?* CAASTRO retreat, 2013, Melbourne, Australia, Distinguished overseas visitor.
- (12) *The neutral gas content of galaxies*. Galaxy formation over 5 decades, 2013, Cambridge, United Kingdom.
- (11) *A new theoretical approach to understand the connection between star formation and molecular gas*. Joint National meeting United Kingdom and Germany, 2012, Manchester, United Kingdom.
- (10) *Understanding the molecular abundance of galaxies near and far*. Far-Infrared view of galaxies at high redshift, 2011, University College London, United Kingdom.
- (9) *Cosmic evolution of the gas content of galaxies*. Galaxy formation, 2011, Durham University, United Kingdom.
- (8) *Cosmic evolution of the gas content of galaxies*. Multi-wavelength view of the ISM at high-redshift, 2011, European Southern Observatory, Santiago, Chile.
- (7) *Cosmic evolution of star formation and the gas content of galaxies*. National astronomical meeting, 2011, Llandudno, United Kingdom.
- (6) *Stellar disc-active galactic nucleus alignments in the SDSS DR7*. AGNs outflows meeting, 2010, Birmingham University, United Kingdom.
- (5) *On the impact of empirical and theoretical SF laws on galaxy formation*. DEX VII meeting, 2010, University of Edinburgh, United Kingdom.
- (4) *On the impact of empirical and theoretical SF laws on galaxy formation*. Molecules in galaxies meeting, 2010, Oxford University, United Kingdom.
- (3) *Black hole spin and radioloudness in a Λ CDM universe*. Sociedad Chilena de Astronomía meeting, 2009, Santiago, Chile.
- (2) *Semi-analytic galaxies (SAG) model: results on BH and galaxy populations*. Extragalactic Workshop on “Semi-analytic models - are we kidding ourselves?”, 2008, University of Birmingham, England.
- (1) *The Effects of AGN feedback on the galaxy population*. Sociedad Chilena de Astronomía meeting, 2007, Valparaíso, Chile.

- **Seminars** At Universities or Institutes since 2008.

TECHNICAL/COMPUTER SKILLS

Others. Semi-analytic models: author of SHARK, and developer of GALFORM and SAG. Halo subfinder algorithms VELOCIRAPTOR, SUBFIND, AMIGA. Basic knowledge of Gadget2.

Scripting/Programming and Data Analysis. C, C++, Fortran, IDL, Python, SM, Bash, C-shell, SQL, html (and similar).

Computer Administration and Productivity Software. UNIX (Linux), L^AT_EX 2_ε, Vim, CASA, MAPLE, etc.

REFEREED PUBLICATIONS

ORCID:0000-0003-3021-8564.

217 papers published or accepted for publication in main international peer reviewed journals. *First author* in 24 of those. Impact factors $h = 58$, $m = 3.87$ and $> 10,600$ citations by September 2023 (Google Scholar). Total number of citations for first author papers is $> 2,300$. 32 publications with >100 citations, 9 of which are first-author publications. 37 publications have been led by my PhD students or postdocs while they were under my supervision.

List of papers from ADS as of September 2023 is below, with \star indicating first author papers, \ddagger indicating papers of students supervised by C. Lagos (during their postgraduate studies) and \dagger are papers of postdocs under the supervision of C. Lagos:

1. D'Eugenio, F., van der Wel, A., Piotrowska, J. M., et al. 2023, MNRAS, 525, 2789.
2. D'Eugenio, F., van der Wel, A., Derkenne, C., et al. 2023, MNRAS, 525, 2765.
3. \star Lagos, C. D. P., Bravo, M., Tobar, R., et al. 2023, submitted to MNRAS (arXiv:2309.02310)
4. \ddagger D'Silva, J. C. J., Driver, S. P., Lagos, C. D. P., et al. 2023, MNRAS, 524, 1448.
5. Brown, T., Roberts, I. D., Thorp, M., et al. 2023, ApJ in press (arXiv:2308.10943)
6. Glazebrook, K., Nanayakkara, T., Schreiber, C., et al. 2023, Submitted to Nature (arXiv:2308.05606)
7. \ddagger Wang, D., Lagos, C. D. P., Croom, S. M., et al. 2023, MNRAS, 523, 6020.
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