

# SEBASTIAN MARINO

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## Research Interests

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Exoplanetary systems, with a special emphasis on their exocometary component. How do exocomets form? How do planets and exocomets interact? Can exocomets deliver volatiles to terrestrial planets? My research tackles these questions through the use of observations and numerical simulations to study the evolution of exocometary material, including the interaction with planets.

## Career

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**Senior Research fellow, Department of Physics & Astronomy, University of Exeter, UK** Jan 2023 -  
**Research fellow, Jesus College & IoA, University of Cambridge, UK** Oct 2020 - Dec 2022  
**Postdoctoral researcher, Max Planck Institute for Astronomy, Heidelberg, Germany** Nov 2018 - Sep 2020  
**PhD in Astronomy, Institute of Astronomy, University of Cambridge, UK** Oct 2015 - Oct 2018  
PhD thesis: *Exocometary discs at large radii and their inward transport via planet scattering*.  
Supervisor: Prof. M. C. Wyatt  
**MS in Astronomy with highest honours, Universidad de Chile, Chile. GPA 100%** Mar 2014 - July 2015  
MS thesis: *Dust traps and warps in transitional protoplanetary discs*  
Supervisor: Prof. S. Casassus  
**BS in Astronomy with highest honours, Universidad de Chile, Chile. GPA 90%** Mar 2010 - Dec 2013

## Fellowships, Grants & Awards

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**2024 ERC Starting Grant.** €1.5M for 5 years to fund a team of PhD students and postdocs.  
**2022 Royal Society University Research fellowship.** £1M for 5 years to fund me, PhD student and PDRA with a possibility of a 3 year extension.  
**2019 Junior Research fellowship by Jesus College, University of Cambridge**  
**2017 NASA Hubble/Sagan fellowship**, declined to take position at MPIA, Heidelberg.  
**2016 Paul Murdin Prize**, best student publication of the year at Institute of Astronomy.  
**2015 Cambridge Trust Scholarship**, 3-year Ph.D. full funding.  
**2014 Chilean CONICYT scholarship**, 2-year M.S. full funding.  
**2013 Top student in Astronomy.** Ranked first of my class over 4 years of undergraduate studies.  
**2010-2013 Outstanding student**, in top 5% of 5,000 students at the faculty of physical and mathematical sciences.

## Key research achievements

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- PI of first ALMA large program dedicated to debris discs (> 50 members and equivalent value of US\$1.7M).
- PI and co-PI of cycle 1 & 2 James Webb Space Telescope program to hunt for exoplanets (equivalent of US\$3M).
- First warped/misaligned protoplanetary disc (Marino et al. 2015, > 200 citations).
- First detection of exocometary gas around a Solar-type star, (Marino et al. 2016, > 100 citations).
- First detection of CO outgassed from scattered exocomets (Marino et al. 2017, > 70 citations).
- Discovery of 3 out of 4 gaps seen in debris discs (Marino et al. 2018, 2019, 2020a, > 100 citations).
- First population synthesis model of exocometary gas (Marino et al. 2020b, > 30 citations).

## Key research skills

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- Reduction of interferometric sub-mm and radio data (e.g. Marino et al. 2015b).
- Continuum and spectral analysis of sub-millimetre data (e.g. Marino et al. 2016).
- Matched filter to boost signal-to-noise ratio of noisy interferometric data. (e.g. Marino et al. 2016, 2017a)
- Image reconstruction from optical interferometric data (e.g. Lacour et al. 2016, Perez et al. 2020).
- 3D Radiative transfer of discs at multiple frequencies ([DISC2RADMC](#), Marino et al. 2015a, 2015b).
- MCMC methods to fit radiative transfer disc models to observations (e.g. Marino et al. 2016).
- Simulations of interferometric data/visibilities (e.g. Marino et al. 2018a).

- N-body simulations of planet-disc interactions (e.g. Marino et al. 2018a, 2018b).
- Collisional evolution of debris discs (e.g. Marino et al. 2017b).
- Viscous evolution and photodissociation simulations of exocometary gaseous discs ([EXOGAS](#), Marino et al. 2020).

## Selected telescope observing proposals (PI of 210h of ALMA and 51h of JWST time, equivalent to US\$6M)

- PI of “ALMA survey to Resolve exoKuiper belt Substructures”, ALMA large program cycle 9 (150h).
- PI of “Searching for Low Mass Planets in Debris Disk Gaps”, JWST cycle 1 (17h).
- co-PI of “A Coronagraphic Survey of Debris Disk Stars with Common Proper Motion Anomalies”, JWST cycle 2 (34h).
- PI of “Spatial characterisation of Eta Corvis exozodi”, LBTI 2020A (10h).
- PI of “Spectroscopic study of newly discovered extreme debris systems”, MPG/ESO/FEROS 2020A (16h).
- Co-I of programs using JWST, HST, ALMA, SMA, VLA, ATCA, SPHERE, NaCO, GPI, ERIS, VISIR, FEROS, LBTI.

## Selected conference contributions & colloquia in the last 5 years

Apr 2025	Future Role of FIR-Submm Space Observations workshop, Leiden, Netherlands	Invited talk
March 2025	Colloquium at Astrophysics group, University of Vienna, Austria	Invited colloquium
Dec 2024	Colloquium at Astrophysics group, MSSL, UK	Invited colloquium
Dec 2024	Colloquium at Astrophysics group, UCL, UK	Invited colloquium
July 2024	Exocomets workshop, International Space Science Institute, Bern, Switzerland	Invited talk
June 2024	Colloquium at Astrophysics group, University of Warwick, UK	Invited colloquium
Apr 2024	Colloquium at Astrophysics group, UC Santa Barbara, US	Invited colloquium
March 2024	Dust Devils Debris Disks in the Sonoran Desert, Tucson, US	Talk
Jan 2024	Fargo3D workshop, Santiago, Chile	Talk
Dec 2023	ALMA at ten years: past, present and future, Puerto Varas, Chile	Invited talk
Aug 2023	Cosmic Dust conference, Kitakyushu, Japan	Invited talk
June 2023	Colloquium at Astrophysics group, Imperial College, UK	Invited colloquium
Oct 2022	Colloquium at Astrophysics group, Leeds University, UK	Invited colloquium
Aug 2022	Debris Discs: At home and abroad conference, Jena, Germany	Talk
May 2022	Astrobiology Science Conference 2021, Atlanta, USA	Talk
April 2022	Colloquium at School of Physics, Trinity College Dublin, Ireland	Invited colloquium
July 2021	European Astronomical Society Annual Meeting 2021	Talk
July 2021	Colloquium at Mullard Space Science Laboratory, UK	Invited colloquium
June 2021	Colloquium at Warwick astronomy & astrophysics group, UK	Invited colloquium
June 2021	Colloquium at Astrophysical Institute, Friedrich Schiller University Jena, Germany	Invited colloquium
June 2021	Colloquium at National Astronomical Observatory of Japan, Japan	Invited colloquium
Apr 2021	<a href="#">UK exoplanet meeting 2021</a>	Talk
Jan 2021	<a href="#">Advanced School “Planets, exoplanets and their systems”</a> ,	Invited lecture
Sep 2020	International Max Planck Research Summer School,	Invited talk
July 2020	<a href="#">Exoplanets III conference</a> , Germany	Plenary talk
July 2020	European Astronomical Society Annual Meeting 2020,	Talk
Mar 2020	Colloquium at Max Planck Institute for Astronomy, Heidelberg, Germany	Colloquium
Sep 2019	“Current and future trends in debris disc science II” workshop, Budapest, Hungary	Talk

## Mentoring

### Postdoctoral Researchers:

2024-present Line manager of postdoctoral researcher Heather Johnston, University of Exeter.

### PhD students:

2023-present PhD supervisor of Raphael Bendahan-West, University of Exeter.

2023-present PhD co-supervisor of Andrew James, University of Exeter.

2023-present PhD co-supervisor of Isabel Codron, University of Exeter.

### Master students:

2025-present Supervisor of 2 MPhys students, University of Exeter.

2025-present Supervisor of 2 MSc students, University of Exeter.

2021-2022 Research supervisor of Master’s student J. Terrill, University of Cambridge (Terrill, Marino et al. 2023).

2020-2021 Research supervisor of Master’s student E. Suslina, University of Cambridge.

**Summer students:**

- 2023 Research supervisor of summer student Vanshika Gupta, University of Exeter.
- 2022 Research supervisor of summer student Zuzanna Urszula, University of Cambridge.
- 2022 Research supervisor of intern undergraduate student J. Paterakis, University of Cambridge.
- 2021-2022 Research supervisor of summer student A. Imaz Blanco, University of Cambridge (Imaz-Blanco, Marino et al. 2023).
- 2020-2021 Research supervisor of summer student E. Miller, MPIA Heidelberg (Miller, Marino et al. 2021).

**Teaching assistant/supervisor/tutor:**

- 2016-2017 Supervisor, 12 students, Statistical Physics, University of Cambridge.
- 2015 Supervisor, 14 students, Research Workshop, Universidad de Chile.
- 2014 Supervisor, 25 students, Introduction to Cosmology, Universidad de Chile.
- 2014 Supervisor, 36 students, Stellar Astrophysics, Universidad de Chile.
- 2013 Supervisor, 64 students, Electromagnetism, Universidad de Chile.

**Large collaborations**

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- PI of cycle 9 ALMA large program ARKS. 45 members and equivalent value of US\$1.7M.
- Co-I of ALMA survey “REsolved ALMA Survey Of Nearby Stars” (cycle 5, 20h, 26 members).
- Co-I of LIFE space mission (proposed mission to characterize terrestrial exoplanet atmospheres, >100 members).
- Co-I NASA XRP program “Studying the Habitable Zones of Nearby Main Sequence Stars” (PI: Steve Ertel).
- Co-I JWST ERS program “High Contrast Imaging of Exoplanets and Exoplanetary Systems” (PI: Sasha Hinkley).
- Co-I DFG research unit “From Transition Disks to Debris Disks” (PI: Til Birnstiel).
- Co-I ANID Nucleo Milenio “YEMS” (PI: Sebastian Perez, Chile).
- Co-I NASA ExoPAG study analysis group “Exozodi Impacts on Direct Imaging” (PI: John Debes, USA).

**Professional service**

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Referee, Monthly Notices of the Royal Astronomical Society  
 Referee, The Astrophysical Journal  
 Referee, The Astronomical Journal  
 Referee, Astronomy & Astrophysics  
 Referee, Publications of the Astronomical Society of the Pacific  
 Reviewer, Stephen Hawking Fellowship  
 Reviewer, Junior Research Fellowships, Jesus College  
 Reviewer, ALMA small programs  
 2024/2025 Physics & Astronoy Inclusion Group member, University of Exeter  
 2024/2025 Physics & Astronomy Sustainability Working Group member, University of Exeter  
 2021/2022 Environment committee member, Jesus College, University of Cambridge  
 2021/2022 Teaching committee member, Institute of Astronomy, University of Cambridge  
 2020 Telescope Time Allocation Committee Member, MPIA  
 2023/2024 JWST cycle 2 and 3 external reviewer

**Selected outreach activities**

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**Talks and events:**

2024 Lecture “Exoplanets and where they come from” to A-level students as part of the Exeter Scholars Astrophysics activities.  
 2023 Public talk at event “Space is the Place” combining live Jazz with Astronomy at Santiago, Chile.  
 2022 Collaboration with artist Tamara Froud to create mosaic sculpture presented at exhibition “Constellations” at Chester Cathedral, UK.  
 2021 Outreach talk for Women Probus group in Vancouver.  
 2021 Outreach talk for Donors Garden Party, Jesus College.  
 2020 Lecture about ALMA and exocomets to architecture students as part of the course *OuterScape*.  
 2016 Managing outreach activity “Galaxy Under Construction” for 500 people at Institute of Astronomy, Cambridge.  
 2016 Assisting public observing nights at the Institute of Astronomy, Cambridge.  
 2014-2015 Astronomy talks to general public in the National Astronomical Observatory of Chile.  
 2014-2015 Art and astronomy exposition at the Contemporary Art Museum in Santiago, Chile.  
 2013 Staff at the touristic observatory OAA, giving talks and managing telescopes.

**Press releases:**

2021 Press release “[Astronomers detect gas released in a giant planetary collision](#)” based on [Nature paper](#). Coverage by [The Independent](#), [The Daily Mail](#), among others.

2016 Press release “[First evidence of icy comets orbiting a sun-like star](#)”, coverage by Astronomy magazine, Daily Mail, LA times, IFL science, etc.

2015 Press release “[Shadows cast by a warp in a planet forming system](#)”, coverage by phys.org, ESO, space.com, pourlascience.fr, etc.

**Articles:**

2021 “[Quién trajo el agua?](#)”, article by me and published by Fundación Mar Adentro.

2020 “[How Did the TRAPPIST-1 Planets Get Their Water?](#)” by Matt Williams at Universe Today.

2019 “[Comet-Blasted Star May Be a Rerun of the Solar Systems Birth](#)” by Nola Taylor at Scientific American.

2017 “[Scientists investigate debris disc in a nearby planetary system](#)” by Tomasz Nowakowski at physics.org.

## Organised conferences

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LOC for “Binary Stars” conference, Cambridge, UK, 2016

LOC for “Current and future trends in debris disc science II” workshop, Budapest, Hungary, 2019

LOC for “Planetary Dynamics” conference, Heidelberg, Germany, 2019

## IT Skills & Languages

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Computer Languages & Python, JAVA, C, MATLAB,  $\LaTeX$ , Linux, HTML

Developed Python Packages & [exogas](#), [disc2radmc](#)

Analysis and modelling software & CASA, RADMC3D, MIRA, SQUEEZE, MERCURY, Rebound  
Tools & jupyter notebooks, Emacs, github

Spanish, native language

English, fluent (speaking, reading, writing)

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**First author publications (> 700 citations):**

1. **Marino, S.**, Cataldi, G., Jankovic, M. R., Matr , L., & Wyatt, M. C., “*Vertical evolution of exocometary gas - I. How vertical diffusion shortens the CO lifetime*”, MNRAS, vol. 515, p 507, 2022
2. **Marino, S.**, “*Constraining planetesimal stirring: how sharp are debris disc edges?*”, MNRAS, vol. 503, p 5100, 2021
3. **Marino, S.**, Zurlo, A., Faramaz, V., Milli, J., Henning, T., Kennedy, G. M., Matr , L., P rez, S., Delorme, P., Cieza, L. A., & Hughes, A. M., “*Insights into the planetary dynamics of HD 206893 with ALMA*”, MNRAS, vol. 498, p 1319, 2020
4. **Marino, S.**, Wyatt, M. C., Kennedy, G. M., Kama, M., Matr , L., Triaud, A. H. M. J., & Henning, T., “*Searching for a dusty cometary belt around TRAPPIST-1 with ALMA*”, MNRAS, vol. 492, p 6067, 2020
5. **Marino, S.**, Flock, M., Henning, T., Kral, Q., Matr , L., & Wyatt, M. C., “*Population synthesis of exocometary gas around A stars*”, MNRAS, vol. 492, p 4409, 2020
6. **Marino, S.**, Yelverton, B., Booth, M., Faramaz, V., Kennedy, G. M., Matr , L., & Wyatt, M. C., “*A gap in HD 92945’s broad planetesimal disc revealed by ALMA*”, MNRAS, vol. 484, p 1257, 2019
7. **Marino, S.**, Carpenter, J., Wyatt, M. C., Booth, M., Casassus, S., Faramaz, V., Guzman, V., Hughes, A. M., Isella, A., Kennedy, G. M., Matr , L., Ricci, L., & Corder, S., “*A gap in the planetesimal disc around HD 107146 and asymmetric warm dust emission revealed by ALMA*”, MNRAS, vol. 479, p 5423, 2018
8. **Marino, S.**, Bonsor, A., Wyatt, M. C., & Kral, Q., “*Scattering of exocomets by a planet chain: exozodi levels and the delivery of cometary material to inner planets*”, MNRAS, vol. 479, p 1651, 2018
9. **Marino, S.**, Wyatt, M. C., Kennedy, G. M., Holland, W., Matr , L., Shannon, A., & Ivison, R. J., “*ALMA observations of the multiplanet system 61 Vir: what lies outside super-Earth systems?*”, MNRAS, vol. 469, p 3518, 2017
10. **Marino, S.**, Wyatt, M. C., Pani , O., Matr , L., Kennedy, G. M., Bonsor, A., Kral, Q., Dent, W. R. F., Duchene, G., Wilner, D., Lisse, C. M., Lestrade, J.-F., & Matthews, B., “*ALMA observations of the  $\eta$  Corvi debris disc: inward scattering of CO-rich exocomets by a chain of 3-30  $M_{\oplus}$  planets?*”, MNRAS, vol. 465, p 2595, 2017
11. **Marino, S.**, Matr , L., Stark, C., Wyatt, M. C., Casassus, S., Kennedy, G., Rodriguez, D., Zuckerman, B., Perez, S., Dent, W. R. F., Kuchner, M., Hughes, A. M., Schneider, G., Steele, A., Roberge, A., Donaldson, J., & Nesvold, E., “*Exocometary gas in the HD 181327 debris ring*”, MNRAS, vol. 460, p 2933, 2016
12. **Marino, S.**, Casassus, S., Perez, S., Lyra, W., Roman, P. E., Avenhaus, H., Wright, C. M., & Maddison, S. T., “*Compact Dust Concentration in the MWC 758 Protoplanetary Disk*”, ApJ, vol. 813, p 76, 2015
13. **Marino, S.**, Gonz lez-Gait n, S., F rster, F., Folatelli, G., Hamuy, M., & Hsiao, E., “*Searching for Light Echoes Due to Circumstellar Matter in SNe Ia Spectra*”, ApJ, vol. 806, p 134, 2015
14. **Marino, S.**, Perez, S., & Casassus, S., “*Shadows Cast by a Warp in the HD 142527 Protoplanetary Disk*”, ApJ, vol. 798, p L44, 2015

**Second & third author publications:**

15. Matr , L., **Marino, S.**, Wilner, D. J., Kennedy, G. M., Booth, M., Krivov, A. V., Williams, J. P., Hughes, A. M., del Burgo, C., Carpenter, J., Davies, C. L., Ertel, S., Kral, Q., Lestrade, J.-F., Marshall, J. P., Milli, J., berg, K. I., Pawellek, N., Sepulveda, A. G., Wyatt, M. C., Matthews, B. C., & MacGregor, M., “*REsolved ALMA and SMA Observations of Nearby Stars (REASONS): A population of 74 resolved planetesimal belts at millimetre wavelengths*”, arXiv e-prints, vol. p arXiv:2501.09058, 2025
16. Brennan, A., Matr , L., **Marino, S.**, Wilner, D., Qi, C., Hughes, A. M., Roberge, A., Hales, A. S., & Redfield, S., “*Low CI/CO abundance ratio revealed by HST UV spectroscopy of CO-rich debris discs*”, MNRAS, vol. 531, p 4482, 2024
17. Cui, C., Marino, S., Kral, Q., & Latter, H., “*Dynamics of cold circumstellar gas in debris discs*”, MNRAS, vol. 530, p 1766, 2024
18. Bonsor, A., Wyatt, M. C., **Marino, S.**, Davidsson, B. J. R., Kral, Q., & Thebault, P., “*Secondary gas in debris discs released following the decay of long-lived radioactive nuclides, catastrophic, or resurfacing collisions*”, MNRAS, vol. 526, p 3115, 2023

19. Terrill, J., **Marino, S.**, Booth, R. A., Han, Y., Jennings, J., & Wyatt, M. C., “*Deprojecting and constraining the vertical thickness of exoKuiper belts*”, MNRAS, vol. 524, p 1229, 2023
20. Imaz Blanco, A., **Marino, S.**, Matrà, L., Booth, M., Carpenter, J., Faramaz, V., Henning, T., Hughes, A. M., Kennedy, G. M., Pérez, S., Ricci, L., & Wyatt, M. C., “*Inner edges of planetesimal belts: collisionally eroded or truncated?*”, MNRAS, vol. 522, p 6150, 2023
21. Hales, A. S., **Marino, S.**, Sheehan, P. D., Ulloa, S., Pérez, S., Matrà, L., Kral, Q., Wyatt, M., Dent, W., & Carpenter, J., “*ALMA Observations of the HD 110058 Debris Disk*”, ApJ, vol. 940, p 161, 2022
22. Miller, E., **Marino, S.**, Stammer, S. M., Pinilla, P., Lenz, C., Birnstiel, T., & Henning, T., “*The formation of wide exoKuiper belts from migrating dust traps*”, MNRAS, vol. 508, p 5638, 2021
23. Lovell, J. B., **Marino, S.**, Wyatt, M. C., Kennedy, G. M., MacGregor, M. A., Stapelfeldt, K., Dent, B., Krist, J., Matrà, L., Kral, Q., Panić, O., Pearce, T. D., & Wilner, D., “*High-resolution ALMA and HST images of  $\eta$  Eri: an asymmetric debris disc with an eccentric Jupiter*”, MNRAS, vol. 506, p 1978, 2021
24. Barraza-Alfaro, M., Flock, M., **Marino, S.**, & Pérez, S., “*Observability of the vertical shear instability in protoplanetary disk CO kinematics*”, A&A, vol. 653, p A113, 2021
25. Faramaz, V., **Marino, S.**, Booth, M., Matrà, L., Mamajek, E. E., Bryden, G., Stapelfeldt, K. R., Casassus, S., Cuadra, J., Hales, A. S., & Zurlo, A., “*A Detailed Characterization of HR 8799’s Debris Disk with ALMA in Band 7*”, AJ, vol. 161, p 271, 2021
26. Mesa, D., **Marino, S.**, Bonavita, M., Lazzoni, C., Fontanive, C., Pérez, S., D’Orazi, V., Desidera, S., Gratton, R., Engler, N., Henning, T., Janson, M., Kral, Q., Langlois, M., Messina, S., Milli, J., Pawellek, N., Perrot, C., Rigliaco, E., Rickman, E., Squicciarini, V., Vigan, A., Wahhaj, Z., Zurlo, A., Boccaletti, A., Bonnefoy, M., Chauvin, G., De Caprio, V., Feldt, M., Gluck, L., Hagelberg, J., Keppler, M., Lagrange, A.-M., Launhardt, R., Maire, A.-L., Meyer, M., Moeller-Nilsson, O., Pavlov, A., Samland, M., Schmidt, T., & Weber, L., “*Limits on the presence of planets in systems with debris discs: HD 92945 and HD 107146*”, MNRAS, vol. 503, p 1276, 2021
27. Lovell, J. B., Kennedy, G. M., **Marino, S.**, Wyatt, M. C., Ansdell, M., Kama, M., Manara, C. F., Matrà, L., Rosotti, G., Tazzari, M., Testi, L., & Williams, J. P., “*Rapid CO gas dispersal from NO Lup’s class III circumstellar disc*”, MNRAS, vol. 502, p L66, 2021
28. Pinilla, P., Pascucci, I., & **Marino, S.**, “*Hints on the origins of particle traps in protoplanetary disks given by the  $M_{\text{dust}} - M_{\star}$  relation*”, A&A, vol. 635, p A105, 2020
29. Kral, Q., **Marino, S.**, Wyatt, M. C., Kama, M., & Matrà, L., “*Imaging [CI] around HD 131835: reinterpreting young debris discs with protoplanetary disc levels of CO gas as shielded secondary discs*”, MNRAS, vol. 489, p 3670, 2019
30. Pérez, S., **Marino, S.**, Casassus, S., Baruteau, C., Zurlo, A., Flores, C., & Chauvin, G., “*Upper limits on protolunar disc masses using ALMA observations of directly imaged exoplanets*”, MNRAS, vol. 488, p 1005, 2019
31. Casassus, S., **Marino, S.**, Lyra, W., Baruteau, C., Vidal, M., Wootten, A., Pérez, S., Alarcon, F., Barraza, M., Cárcamo, M., Dong, R., Sierra, A., Zhu, Z., Ricci, L., Christiaens, V., & Cieza, L., “*Cm-wavelength observations of MWC 758: resolved dust trapping in a vortex*”, MNRAS, vol. 483, p 3278, 2019
32. Matrà, L., **Marino, S.**, Kennedy, G. M., Wyatt, M. C., Öberg, K. I., & Wilner, D. J., “*An Empirical Planetesimal Belt Radius-Stellar Luminosity Relation*”, ApJ, vol. 859, p 72, 2018
33. Read, M. J., Wyatt, M. C., **Marino, S.**, & Kennedy, G. M., “*Shaping HR8799’s outer dust belt with an unseen planet*”, MNRAS, vol. 475, p 4953, 2018
34. Kennedy, G. M., **Marino, S.**, Matrà, L., Panić, O., Wilner, D., Wyatt, M. C., & Yelverton, B., “*ALMA observations of the narrow HR 4796A debris ring*”, MNRAS, vol. 475, p 4924, 2018
35. Casassus, S., Wright, C. M., **Marino, S.**, Maddison, S. T., Wootten, A., Roman, P., Pérez, S., Pinilla, P., Wyatt, M., Moral, V., Ménard, F., Christiaens, V., Cieza, L., & van der Plas, G., “*A Compact Concentration of Large Grains in the HD 142527 Protoplanetary Dust Trap*”, ApJ, vol. 812, p 126, 2015
36. Casassus, S., **Marino, S.**, Pérez, S., Roman, P., Dunhill, A., Armitage, P. J., Cuadra, J., Wootten, A., van der Plas, G., Cieza, L., Moral, V., Christiaens, V., & Montesinos, M., “*Accretion Kinematics through the Warped Transition Disk in HD142527 from Resolved CO(6-5) Observations*”, ApJ, vol. 811, p 92, 2015

**Remaining co-author publications:**



37. Gratton, R., Bonavita, M., Mesa, D., Desidera, S., Zurlo, A., Marino, S., D’Orazi, V., Rigliaco, E., Nascimbeni, V., Barbato, D., Columba, G., & Squicciarini, V., “*A study of the frequency and characteristics of stellar companions and Jupiter-like planets in nearby open clusters*”, arXiv e-prints, vol. p arXiv:2501.04692, 2025
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## Non-refereed publications

- **Marino, S.**, “*Debris/Planetesimal discs*”, invited review chapter for book “*Planetary Systems Now*”, ed. by Luisa Lara and David Jewitt, World Scientific, 2023. [link to chapter](#). 17 citations
- Matrà, L., Kral, Q., Su, K., Brandeker, A., Dent, W., Gaspar, A., Kennedy, G., **Marino, S.**, Öberg, K., Roberge, A., Wilner, D., Wilson, P., Wyatt, M., Cataldi, G., Higuchi, A., Hughes, M., Kiefer, F., Lecavelier des Etangs, A., Lyra, W., Matthews, B., Moor, A., Welsh, B., & Zuckerman, B., “*Exocometary Science*”, Astro2020, BAAS, vol. 51, p 391, 2019