

Sebastián Pérez | CV

Dr./Professor at Universidad de Santiago – Astrophysicist, Musician and Author
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Summary

Sebastián Pérez is Associate Professor at the Faculty of Sciences of Universidad de Santiago de Chile and **alternate director of the YEMS Millennium Nucleus** as well as **interim director of the CIRAS Center**. He holds a Ph.D. in astrophysics from Oxford University and a B.Sc. in science and astronomy from Universidad de Chile. He has authored more than 90 publications in peer-reviewed international journals with more than 5000 citations. He works in astrophysics, art-science interplay, with incursions into music and literature. His research focuses on the question of planetary origins. His presented a novel method for detecting and characterizing young forming planets (disk kinematics), as well as the discovery of signatures of a migrating mini-Neptune planet via the footprints it left in a protoplanetary disk.

Prof. Pérez wrote an engaging children's novel that promotes women in science by sharing the essentials of scientific exploration and discovery. More than seven thousand copies are read by children in public schools today. In the interplay between art-science, outreach and education, he leads projects on intercultural dialogues between scientific and indigenous communities, embodied learning applied to astrophysics (Recreo Espacial), directed the Skies Concert project ([Concierto Cielos](#)), and worked on the [Charango concerto From the Big Bang, through the fundamental laws](#).

Positions and appointments

- Director 2021-2024, **Alternate Director** 2024-2027, Millennium Nucleus on Young Exoplanets and their Moons (YEMS)
- **Interim Director** 2022-, Center for Interdisciplinary Research in Astrophysics and Space Science (CIRAS)
- **Associate Professor**, Physics department, Universidad de Santiago de Chile (USACH)
- **Faculty Council Member** (elected), Faculty of Science, University of Santiago de Chile (2023–)
- **Member of the board of directors** 2023-, Planetario Chile
- **Founding member**, Fundación Astrodiálogos

Research experience and funding

ANID-Gemini postdoctoral fellowship

Main line of research: *Hydrodynamics and observations of planet formation*

Universidad de Chile
2018–2019

ANID-Fondecyt postdoctoral fellowship, Young researcher at MAD

Main line of research: *Modelling and observing on-going planet formation*

Universidad de Chile
2014–2017

Millennium Nucleus on Protoplanetary Disks postdoctoral researcher

Main line of research: *Protoplanetary disks research with ALMA*

MAD, U. Chile
2011–2014

Postdoctoral fellow (STFC PDRA)

Main line of research: *accretion disks around black holes with jets (microquasars)*

University of Oxford
2009–2011

Education

Doctor of Philosophy, PhD in Astrophysics

Inflow and outflow in stellar mass black holes. PhD advisor: Prof. K. M. Blundell

University of Oxford
2006–2009

Licenciatura en Ciencias mención Astronomía, BSc

Graduated with distinction equivalent to a First-class honour (1st).

Universidad de Chile
2002–2005

Publications (WoS/ISI indexing, peer-reviewed)

99 publications in peer-reviewed international journals (WoS/ISI), 10 as first author, more than 50 as either 1st, 2nd or 3rd author, with a total of >5000 citations (Nov 2025). *h-index: 42 (Google Scholar), 39 (ADS)*.

See publication list at the end or click on: Smithsonian/NASA ADS, SciX, ORCID, Google Scholar.

Synergetic projects on art, education, outreach and science

- Director of Potenciando el diálogo entre saberes científicos y de pueblos originarios en astrofísica. Ciencia Pública 2022, ALMA-ANID 2023-2024. www.astrodialogos.cl.

- Director of Concierto Cielos project on convergence between music and astronomy. www.conciertocielos.cl.
- Director of Recreo Espacial an embodied learning project for education and motivation into science through experiential activities related to astrophysical concepts (2016–2019).
- Author of the children's astronomy novel *Bitácora Planetaria: Cazadores de Eclipses*, 2016, LOM Ediciones, funded via Milenio PME. 2nd edition. About 5.000 copies distributed at schools and general public so far.

AATS 2014: Director of the Art, Astronomy, Technology and Society initiative. In which I produced:

- Art+Astronomy Day at Contemporary Arts Museum (MAC, Santiago) for artists, educators and the public.
- Art+Astronomy Incubator initiative. Coordination of 4 projects led by pairs of artists and astronomers.

Immersive installation AATS 2013 “El Origen del Sistema Solar”: Scientist in residency at National Contemporary Arts museum (lead by artist Olaf Peña).

Teaching experience, as supervisor and lecturer

- U. de Santiago (2025b): Astrofísica de la Formación Planetaria (pregrado)
- U. de Santiago (2025a): Introducción a la Astrofísica; Modelamiento en Astrofísica
- U. de Santiago (2024b): Proyecto de Especialidad
- U. de Santiago (2024a): Astrofísica de la Formación Planetaria (pregrado)
- U. de Santiago (2023b): Proyecto de Especialidad
- U. de Santiago (2023a): Desarrollo de Software en Astrofísica, y Astrofísica de la Formación Planetaria (posgrado)
- U. de Santiago (2022b): Introducción a la Astrofísica
- U. de Santiago (2022a): Introducción a la Astrofísica
- U. de Santiago (2020-2022): Opening and design of the bachelor degree on astrophysics and data science
- U. de Santiago (2020-2021): Supervision of two physics education students.
- U. de Santiago (2020-2021): Supervision of engineering student B. Monsalvez.
- U. de Chile (2016-2018): Co-supervision of MSc students M. Barraza and F. Alarcón.
- U. de Chile (2016-2017): Supervisor of undergraduate research projects on hydrodynamics of multiple planets, radiation hydrodynamics, and FU Ori ALMA observations.
- U. de Chile (2015-2016): Supervisor of undergraduate research projects: C. Flores, M. Barraza and F. Alarcón.
- U. of Oxford (2007-2010): Lecturer Stellar Evolution and Cosmology (Astro B3, 3rd year Physics undergrads).
- U. de Chile (2002-2006): Teaching assistant for Electromagnetism and Statistical Physics.

Grants

Science grants and awards

- 2024–2027: Alternate Director, Millennium Nucleus grant (~USD700k).
- 2024–2026: Principal Investigator, MIT Global Seed Fund. AI Applications for Planet Formation (~USD20k).
- 2023–2027: Principal Investigator, FONDECYT Regular 1231663 grant (~USD270k).
- 2021–2024: Director, Millennium Nucleus grant (~USD700k).
- 2019–2022: Principal Investigator, FONDECYT Regular grant (~USD270k).
- 2018: ESO-Chile comité mixto grant for funding astrophysics professorship at USACH. Two years. ~90k USD.
- 2017: FONDECYT Regular grant (as co-investigator).
- 2015: FONDEQUIP grant (100k USD) for GPU Cluster for hydro 3D simulations.
- 2014: FONDECYT Postdoctoral fellowship (120k USD).
- 2008: Oxford University's St John's College special grant for research excellence.
- 2006: PPARC (STFC) PhD Studentship – Particle Physics and Astronomy Research Council (PPARC UK). I was awarded the only such studentship available for South American students.
- 2005: Outstanding Undergraduate Student at Universidad de Chile (top 10% students of Physics and Math).

Art grants and residencies

- 2023: ANID-ALMA fund for astrodiálogos project “Potenciando el diálogo entre saberes científicos y de pueblos originarios en astrofísica”.
- 2022: Concurso Nacional Ciencia Pública for “Potenciando el diálogo entre saberes científicos y Mapuche en astrofísica”.
- 2018: Fondo de la Música (Fondos de Cultura, Chile) to make a record of the charango concerto based on the fundamental laws of astronomy (composer A. Yermakova in collaboration with S. Perez). 15k USD.

2018: Djerassi Artist Residency for the Scientific Delirium Madness art+science program, to explore and expand how the creativity of scientists and artists are connected. San Francisco, CA, USA. June 2018.

2016-2017: Research grant on embodied learning applied to astronomy (20k USD) via Iniciativa Milenio (PME MAD program, along with S. Casassus, A. Yermakova).

2015: Grant to create, illustrate, publish and distribute a children's book about astronomy to encourage Women in Science (20k USD) via Iniciativa Milenio (PME MAD program).

2014: Outreach grant to fund art+astronomy initiatives "AATS 2014" (20k USD), along with S. Casassus, via Iniciativa Milenio (PME MAD program).

Review panel invitations and other services

- ALMA Science Assessor (2017–2019). Reviewing ~100 proposals/year.
- Referee on major (WoS) astronomy journals ApJ, ApJ Letters, A&A and MNRAS.
- Member of astronomy review panel, FONDECYT Regular, ANID.
- Science Assessor and evaluator for graduate travel scholarships/funding at U. de Chile.
- Science Assessor and evaluator for XXI Concurso de Proyectos Explora, Conicyt.

Recent telescope time allocated as PI (2014–2021)

ALMA Cycle 7 rank A: (long baselines) Revealing planet migration with ALMA, 7h

ALMA Cycle 7 rank B: (long baselines) Resolving the kinematics of FU Orionis, 8h

ALMA Cycle 6 rank A: (long baselines) Follow up observation on circumplanetary disk discovery, 16h

VLT/SPHERE DDT P101: SAM observations of a candidate protoplanet, 5h

ALMA Cycle 5 rank A: (long baselines) Survey of TTauri disks (DARTTS-A). 10h

SPHERE/VLT P101: Solar asteroid belt analogue. 0.5n

ALMA Cycle 4 rank A: (long baselines) CPD detection. 11h

ALMA Cycle 4 rank A: (long baselines) Kinematics of FU Ori. 3h

ALMA Cycle 4 rank B: Protolunar disks II. 3h

VLA A-config 2017: V883 Ori's snowline. 6h

SPHERE/VLT P98 and P99: Interacting protoplanetary disks Survey II. 0.9n

SPHERE/VLT P97: Interacting protoplanetary disks Survey I. 0.3n

ALMA Cycle 3 rank B: Protolunar disks. 3h

ALMA Cycle 2 rank B: Planet formation at a critical age. 5h

NACO/VLT P96: Circumstellar environ of ZCMa in high contrast polarimetry. 4h

NACO/VLT P96: Ionised nebula around black hole SS433. 2h in service + 4h visitor AGPM

MagAO/Baade 2014: Twin disks SR24, diffraction-limited imaging in Z' and K band. 2h

Invited seminars, conferences and workshops (selected)

- Contributed talk at "SOCHIAS XX Annual Meeting" on Eruptive Stars and Planet Formation, Puerto Montt, Chile October 2025
- Contributed plenary talk at "A new era in astrophysics: Preparing for early science with the SKAO" on Disk Demographics, Gorlitz, Germany June 2025
- Contributed talk at "A new era in astrophysics: Preparing for early science with the SKAO" on Disk Substructures, Gorlitz, Germany June 2025
- Organizer of the "Born in Fire: Eruptive stars and planet formation" international conference, Santiago Sept 2024
- Co-organizer of the "1st FARGO3D Workshop" international workshop, Santiago Jan 2024
- Invited talk "Reescribiendo la historia de cómo se forman los planetas" at Centro de Astronomía CITEVA, U. Antofagasta Nov 2021
- Invited talk at "Circumplanetary Disks and Satellite Formation", Online (Nagoya/ETH Zurich). Mar 2020
- Invited talk at "Kinematics of Planet formation", Flatiron Institute, NYC. Oct 2019
- Contributed talk at 2nd workshop "The UX Ori type stars and related topics", St Petersburg. Oct 2019
- Invited talk at the "Great Barriers in Planet Formation", Palm Cove, Australia. July 2019
- Contributed talk at "New Horizons in Planetary Systems", Victoria, Canada. May 2019
- Invited seminar at "The Poladian Project: A festival of interdisciplinary research and surprising connections", Sydney, Australia. Feb 2019
- Colloquium, Department of Physics, U. de Santiago, Chile. Jan 2019

- Colloquium, Department of Astronomy, U. de Chile. Dec 2018
- Invited seminar, Niels Bohr Institute, Copenhagen, Denmark. Oct 2018
- Invited seminar, Institute of Astronomy, Cambridge, UK. Oct 2018
- Participant at Aspen Center for Physics, "Unveiling the Physics of Protoplanet Formation: Connecting Theory to Observations.", Aspen, Colorado. July 2018
- Contributed talk at "Circumplanetary Disks and Satellite Formation", Nagoya, Japan. March 2018
- Contributed talk at "ESO Planet Formation 2016", Santiago. March 2016
- Contributed talk at "Disc Dynamics & Planets", Larnaka, Cyprus. June 2015
- Contributed talk at "Transition Disks and Planet Formation", Leiden, Netherlands. March 2015
- Chair and coordinator for "Protoplanetary disks and the planets they form", U. Chile. Nov 2014
- Contributed talk at "Characterising planetary systems across the HR diagram", Cambridge, UK. July 2014
- Poster at "Transformational Science with ALMA: From Dust to Rocks to Planets", Hawaii, USA. May 2014
- Contributed talk at "Herbig Ae/Be stars: the missing link in star formation", ESO, Chile. March 2014
- Contributed talk at "ALMA Early Science conference", Puerto Varas, Chile. Dec 2013

Tools and technical expertise

Numerical Simulations: 3D/2D hydrodynamic simulations (`FARGO3D`, `FARGO2D-ADSG`).

Radiative Transfer: Continuum and line emission calculations with `RADMC3D`.

Image synthesis: NRAO CASA.

Programming languages: Python (astropy, numpy, scipy), Perl (PDL), C, CUDA GPU, OpenGL.

Recent outreach activity

- Organizer of Concierto Cielos talks that blend astronomy and music since 2017.
- Co-organizer of Space is the Place talks that blend jazz and astronomy (2023-2025).
- Odessa House of Scientists, Astronomy society, Odessa, Ukraine. Oct 2018.
- Keynote speaker at "Simposio de Arte y Astronomía", UDP, Santiago, Chile. Mar 2018
- Workshop talk on art and astronomy at UNESCO's "Learning through Art" week. Coyhaique, Chile. 2016
- >50 outreach talks at schools since 2013, in Chile (50), UK (4), India (2), Ukraine (1) and South Africa (1).
- Invited to 7 radio shows at four major radio stations and four appearances on national TV (including S02E10 Hijos de las Estrellas, Metropolibros).
- Invited to several "Diálogos en movimiento" by Ministry of Cultures at schools in Chile.

Other highlights

- Observing experience on VLT/SPHERE, ALMA, Gemini North and South, Magellan, VLA, SAAO 2m
- Advanced English and native Spanish.

Publications list (WoS/ISI, peer-reviewed)

- [1] James M. Miley, Grant M. Kennedy, Alvaro Ribas, Enrique Macias, John Carpenter, Miguel Vioque, Kevin Luhman, Thomas Haworth, Philipp Weber, Sebastian Perez, and Alice Zurlo. Resolving the large exoKuiper belt of the HD 126062 debris disc and extended gas emission in its vicinity. *arXiv e-prints*, page arXiv:2511.07576, November 2025.
- [2] Haochang Jiang, Feng Long, Enrique Macías, Myriam Benisty, Kiyoaki Doi, Cornelis P. Dullemond, Ryan A. Loomis, Ilaria Pascucci, Sebastián Pérez, Shangjia Zhang, and Zhaohuan Zhu. Puffed-up Inner Rings and Razor-thin Outer Rings in Structured Protoplanetary Disks. *AJ*, 993(2):166, November 2025.
- [3] Miles Lucas, Michael Bottom, Ruobing Dong, Myriam Benisty, Mario Flock, Maria Vincent, Jonathan Williams, Kyoho Ahn, Thayne Currie, Vincent Deo, Olivier Guyon, Tomoyuki Kudo, Lucinda Lilley, Julien Lozi, Maxwell Millar-Blanchaer, Barnaby Norris, Sebastián Pérez, Boris Safonov, Peter Tuthill, Taichi Uyama, Sébastien Vievard, and Manxuan Zhang. Dynamical Analysis of the HD 169142 Planet-forming Disk: Twelve Years of High-contrast Polarimetry. *AJ*, 170(5):278, November 2025.
- [4] R. Montecinos, C. Hernández, I. Fuentes-Morales, F. Alarcón, I. Benito, L. Laroze, and S. Pérez. Analyzing New Planetary Systems at School: Applications of Newton's Law of Universal Gravitation and Kepler's Third Law. *The Physics Teacher*, 63(7):543–547, October 2025.
- [5] Álvaro Ribas, Miguel Vioque, Francesco Zagaria, Cristiano Longarini, Enrique Macías, Cathie J. Clarke, Sebastián Pérez, John Carpenter, Nicolás Cuello, and Itziar de Gregorio-Monsalvo. A young gas giant and hidden substructures in a protoplanetary disk. *Nature Astronomy*, 9:1176–1183, August 2025.

- [6] Anuroop Dasgupta, Alice Zurlo, Philipp Weber, Francesco Maio, Lucas A. Cieza, Davide Fedele, Antonio Garufi, James Miley, Prashant Pathak, Sebastián Pérez, and Veronica Roccagliati. VLT/ERIS Observations of the V960 Mon System: A Dust-embedded Substellar Object Formed by Gravitational Instability? *ApJ*, 988(1):L30, July 2025.
- [7] Philipp Weber, Silvio Ulloa, Sebastián Pérez, James Miley, Lucas Cieza, Sergei Nayakshin, Alice Zurlo, Hauyu Baobab Liu, Fernando Cruz-Sáenz de Miera, Antonio Hales, Antonio Garufi, Dimitris Stamatellos, Ágnes Kóspál, and Viviana Guzmán. A Multiwavelength Study of the Dynamic Environment Surrounding the FUor V960 Mon. *ApJ*, 985(2):226, June 2025.
- [8] Aurora Aguayo, Claudio Caceres, Zhen Guo, Matthias R. Schreiber, Álvaro Ribas, Joel H. Kastner, Lucas A. Cieza, Sebastián Pérez, Héctor Cánovas, Daniela Rojas Bozza, D. Annie Dickson-Vandervelde, William Grimble, and Alejandro Santamaría-Miranda. Confirmation of a ring structure in the disk around MP Mus (PDS 66) with ALMA Band 7 observations. *A&A*, 698:A165, June 2025.
- [9] Santiago Orcajo, Lucas A. Cieza, Octavio Guilera, Sebastián Pérez, Fernando R. Rannou, Camilo González-Ruiz, Grace Batalla-Falcon, Trisha Bhowmik, Prachi Chavan, Simon Casassus, Anuroop Dasgupta, Kevin Diaz, José L. Gomez, Antonio S. Hales, J. M. Miley, Marcelo M. Miller Bertolami, P. H. Nogueira, María Paula Ronco, Dary Ruiz-Rodriguez, Anibal Sierra, Julia Venturini, Philipp Weber, Jonathan P. Williams, and Alice Zurlo. The Ophiuchus Disk Survey Employing ALMA (ODISEA): A Unified Evolutionary Sequence of Planet-driven Substructures Explaining the Diversity of Disk Morphologies. *ApJ*, 984(2):L57, May 2025.
- [10] Anuroop Dasgupta, Lucas A. Cieza, Camilo González-Ruiz, Trisha Bhowmik, Prachi Chavan, Grace Batalla-Falcon, Gregory Herczeg, Dary Ruiz-Rodriguez, Jonathan P. Williams, Anibal Sierra, Simon Casassus, Octavio Guilera, Sebastian Pérez, Santiago Orcajo, P. H. Nogueira, A. S. Hales, J. M. Miley, Fernando R. Rannou, and Alice Zurlo. The Ophiuchus Disk Survey Employing ALMA (ODISEA): Complete Size Distributions for the 100 Brightest Disks across Multiplicity and Spectral Energy Distribution Classes. *ApJ*, 981(1):L4, March 2025.
- [11] P. H. Nogueira, C. Lazzoni, A. Zurlo, T. Bhowmik, C. Donoso-Oliva, S. Desidera, J. Milli, S. Pérez, P. Delorme, A. Fernandez, M. Langlois, S. Petrus, G. Cabrera-Vives, and G. Chauvin. Astrometric and photometric characterization of η Tel B combining two decades of observations. *A&A*, 687:A301, July 2024.
- [12] A. Zurlo, P. Weber, S. Pérez, L. Cieza, C. Ginski, R. G. van Holstein, D. Principe, A. Garufi, A. Hales, J. Kastner, E. Rigliaco, G. Ruane, M. Benisty, and C. Manara. The environment around young eruptive stars. SPHERE/IRDIS polarimetric imaging of seven protostars. *A&A*, 686:A309, June 2024.
- [13] A. Garufi, C. Ginski, R. G. van Holstein, M. Benisty, C. F. Manara, S. Pérez, P. Pinilla, Á. Ribas, P. Weber, J. Williams, L. Cieza, C. Dominik, S. Facchini, J. Huang, A. Zurlo, J. Bae, J. Hagelberg, Th. Henning, M. R. Hogerheijde, M. Janson, F. Ménard, S. Messina, M. R. Meyer, C. Pinte, S. P. Quanz, E. Rigliaco, V. Roccagliati, H. M. Schmid, J. Szulágyi, R. van Boekel, Z. Wahaj, J. Antichi, A. Baruffolo, and T. Moulin. The SPHERE view of the Taurus star-forming region. The full census of planet-forming disks with GTO and DESTINYS programs. *A&A*, 685:A53, May 2024.
- [14] A. S. Hales, A. Gupta, D. Ruiz-Rodríguez, J. P. Williams, S. Pérez, L. Cieza, C. González-Ruiz, J. E. Pineda, A. Santamaría-Miranda, J. Tobin, P. Weber, Z. Zhu, and A. Zurlo. Discovery of an Accretion Streamer and a Slow Wide-angle Outflow around FU Orionis. *ApJ*, 966(1):96, May 2024.
- [15] S. de Regt, C. Ginski, M. A. Kenworthy, C. Caceres, A. Garufi, T. M. Gledhill, A. S. Hales, N. Huelamo, Á. Kóspál, M. A. Millar-Blanchaer, S. Pérez, and M. R. Schreiber. Polarimetric differential imaging with VLT/NACO. A comprehensive PDI pipeline for NACO data (PIPPIN). *A&A*, 684:A73, April 2024.
- [16] Felipe Alarcón, Simón Casassus, Wladimir Lyra, Sebastián Pérez, and Lucas Cieza. Viscous heating as the dominant heat source inside the water snowline of V883 Ori. *MNRAS*, 527(4):9655–9667, February 2024.
- [17] Carla Arce-Tord, Simon Casassus, William R. F. Dent, Sebastián Pérez, Miguel Cárcamo, Philipp Weber, Natalia Engler, Lucas A. Cieza, Antonio Hales, Alice Zurlo, and Sebastian Marino. Radio-continuum decrements associated to shadowing from the central warp in transition disc DoAr 44. *MNRAS*, 526(2):2077–2085, December 2023.
- [18] Pedro Henrique Nogueira, Alice Zurlo, Sebastián Pérez, Camilo González-Ruiz, Lucas A. Cieza, Antonio Hales, Trisha Bhowmik, Dary A. Ruiz-Rodríguez, David A. Principe, Gregory J. Herczeg, Jonathan P. Williams, Jorge Cuadra, Matías Montesinos, Nicolás Cuello, Prachi Chavan, Simon Casassus, Zhaohuan Zhu, and Felipe G. Goicovic. Resolving the binary components of the outbursting protostar HBC 494 with ALMA. *MNRAS*, 523(4):4970–4991, August 2023.
- [19] Amaia Imaz Blanco, Sebastian Marino, Luca Matrà, Mark Booth, John Carpenter, Virginie Faramaz, Thomas Henning, A. Meredith Hughes, Grant M. Kennedy, Sebastián Pérez, Luca Ricci, and Mark C. Wyatt. Inner edges of planetesimal belts: collisionally eroded or truncated? *MNRAS*, 522(4):6150–6169, July 2023.
- [20] Philipp Weber, Sebastián Pérez, Alice Zurlo, James Miley, Antonio Hales, Lucas Cieza, David Principe, Miguel Cárcamo, Antonio Garufi, Ágnes Kóspál, Michihiro Takami, Joel Kastner, Zhaohuan Zhu, and Jonathan Williams. Spirals and Clumps in V960 Mon: Signs of Planet Formation via Gravitational Instability around an FU Ori Star? *ApJ*, 952(1):L17, July 2023.
- [21] Alice Zurlo, Raffaele Gratton, Sebastián Pérez, and Lucas Cieza. Observations of planet forming disks in multiple stellar systems. *European Physical Journal Plus*, 138(5):411, May 2023.
- [22] Á. Ribas, E. Macías, P. Weber, S. Pérez, N. Cuello, R. Dong, A. Aguayo, C. Cáceres, J. Carpenter, W. R. F. Dent, I. de Gregorio-Monsalvo, G. Duchêne, C. C. Espaillat, P. Riviere-Marichalar, and M. Villenave. The ALMA view of MP Mus (PDS 66): A protoplanetary disk with no visible gaps down to 4 au scales. *A&A*, 673:A77, May 2023.

- [23] Philipp Weber, Sebastián Pérez, Greta Guidi, Nicolás T. Kurtovic, Alice Zurlo, Antonio Garufi, Paola Pinilla, Satoshi Mayama, Rob G. van Holstein, Cornelis P. Dullemond, Nicolás Cuello, David Principe, Lucas Cieza, Camilo González-Ruiz, and Julien Girard. The SPHERE view of three interacting twin disc systems in polarized light. *MNRAS*, 518(4):5620–5642, February 2023.
- [24] Antonio S. Hales, Sebastián Marino, Patrick D. Sheehan, Silvio Ulloa, Sebastián Pérez, Luca Matrà, Quentin Kral, Mark Wyatt, William Dent, and John Carpenter. ALMA Observations of the HD 110058 Debris Disk. *ApJ*, 940(2):161, December 2022.
- [25] N. T. Kurtovic, P. Pinilla, Anna B. T. Penzlin, M. Benisty, L. Pérez, C. Ginski, A. Isella, W. Kley, F. Menard, S. Pérez, and A. Bayo. The morphology of CS Cha circumbinary disk suggesting the existence of a Saturn-mass planet. *A&A*, 664:A151, August 2022.
- [26] Charles J. Law, Sage Crystian, Richard Teague, Karin I. Öberg, Evan A. Rich, Sean M. Andrews, Jaehan Bae, Kevin Flaherty, Viviana V. Guzmán, Jane Huang, John D. Ilee, Joel H. Kastner, Ryan A. Loomis, Feng Long, Laura M. Pérez, Sebastián Pérez, Chunhua Qi, Giovanni P. Rosotti, Dary Ruiz-Rodríguez, Takashi Tsukagoshi, and David J. Wilner. CO Line Emission Surfaces and Vertical Structure in Midinclination Protoplanetary Disks. *ApJ*, 932(2):114, June 2022.
- [27] R. Franz, G. Picogna, B. Ercolano, S. Casassus, T. Birnstiel, Ch. Rab, and S. Pérez. Dust entrainment in photoevaporative winds: Synthetic observations of transition disks. *A&A*, 659:A90, March 2022.
- [28] P. P. Poblete, N. Cuello, S. Pérez, S. Marino, J. Calcino, E. Macías, Á. Ribas, A. Zurlo, J. Cuadra, M. Montesinos, S. Zúñiga-Fernández, A. Bayo, C. Pinte, F. Ménard, and D. J. Price. The protoplanetary disc around HD 169142: circumstellar or circumbinary? *MNRAS*, 510(1):205–215, February 2022.
- [29] Philipp Weber, Simon Casassus, and Sebastián Pérez. The steady-state hydrodynamics of a long-lived disc: planetary system architecture and prospects of observing a circumplanetary disc shadow in V4046 Sgr. *MNRAS*, 510(2):1612–1626, February 2022.
- [30] Rafael Martinez-Brunner, Simon Casassus, Sebastián Pérez, Antonio Hales, Philipp Weber, Miguel Cárcamo, Carla Arce-Tord, Lucas Cieza, Antonio Garufi, Sebastián Marino, and Alice Zurlo. High-resolution ALMA observations of V4046 Sgr: a circumbinary disc with a thin ring. *MNRAS*, 510(1):1248–1257, February 2022.
- [31] R. Franz, B. Ercolano, S. Casassus, G. Picogna, T. Birnstiel, S. Pérez, Ch. Rab, and A. Sharma. Dust entrainment in photoevaporative winds: Densities and imaging. *A&A*, 657:A69, January 2022.
- [32] Hauyu Baobab Liu, An-Li Tsai, Wen Ping Chen, Jin Zhong Liu, Xuan Zhang, Shuo Ma, Vardan Elbakyan, Joel D. Green, Antonio S. Hales, Sheng-Yuan Liu, Michihiro Takami, Sebastián Pérez, Eduard I. Vorobyov, and Yao-Lun Yang. Millimeter-sized Dust Grains Surviving the Water-sublimating Temperature in the Inner 10 au of the FU Ori Disk. *ApJ*, 923(2):270, December 2021.
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Publication list

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