

Curriculum Vitae

Gaspar Galaz

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Instituto de Astrofísica
Pontificia Universidad Católica de Chile
Macul, Santiago



Education

- Ph.D. (Astrophysics), Université de Paris VII, January 1998.
- M.Sc. (Astronomy), Universidad de Chile, August 1993.
- B.Sc. (Physics), Universidad de Chile, December 1990.

Employment History

- Professor, PUC (December 2017+).
- Associate Professor, PUC (January 2006 – 2017).
- Assistant Professor, PUC (January 2001 – December 2005).
- Andes-Carnegie Postdoctoral Fellow (January 1998 – January 2001).

Appointments

- Chair, Instituto de Astrofísica, Pontificia Universidad Católica de Chile (April 2017 – September 2020, elected).
- Chair, Instituto de Astrofísica, Pontificia Universidad Católica de Chile (April 2014 – 2017, elected).
- Visiting Associate Professor, Department of Astronomy, University of Maryland, College Park, USA (September to December 2010).
- Visiting Research Scholar, Department of Astronomy, University of Washington, Seattle USA (May to August 2010).

Scholarships, Fellowships, etc.

- 1998, Andes-Carnegie Fellowship.
- 1993, French Government Ph.D. Fellowship.
- 1991, Facultad de Ciencias Físicas y Matemáticas scholarship for academic excellence, Universidad de Chile.

Primary Research Interests

- Extragalactic astronomy.
- Stellar and gaseous content in galaxies.
- Low surface brightness galaxies.
- Optical, near-IR and sub-mm extragalactic astronomy.
- Statistical properties of the galaxy distribution.
- Galaxy evolution.
- Large-scale structure of the universe.

Research and Other Grants

- Grant FONDEDOC new course “A journey through the universe”, 2019.
- PI VRI grant: “Supporting sabbatical leave for Prof. Chris Hawk from University of Notre Dame”, 2017
- Co-I FONDECYT REGULAR GRANT 1161817 (2016 – 2020), 1161817 (PI. Thomas Puzia).
- Co-I Proyecto ECOS, with Thomas Puzia and Ariane Lançon (2015).
- Co-I, FONDECYT REGULAR GRANT 1150300 (2015 – 2018), *Shedding light on the dark side of the universe* (PI: Nelson Padilla).
- Co-I Anillo Atlas Andino (PI: Marco Díaz, Departamento de Física, PUC, 2013 - 2015).
- PI, FONDECYT REGULAR GRANT 1120195 (2012 - 2015), *Unveiling the Physical Properties of the Interstellar Medium in Low Surface Brightness Galaxies*. ~US\$ 190,000.
- Co-I FONDEDOC grant “Improving English writing in Astrophysics” (PI: María Cristina Arancibia, Facultad de Letras, 2012 - 2013).
- Co-I FONDEDOC grant “Astronomy eLearning” (PI. Leopoldo Infante, Instituto de Astrofísica, 2008-2009).
- PI, GEMINI-CONICYT Grant 32110010, 2011-2013, “Support for the Graduate Program in Astrophysics at Pontificia Universidad Católica de Chile”. ~US\$ 20,000.
- PI, ALMA-CONICYT Grant 31110008, 2012-2013, “Support for the Graduate Program in Astrophysics at Pontificia Universidad Católica de Chile”. ~US\$ 68,000.
- Co-I, FONDECYT REGULAR GRANT 1110328 (2011-2014), *Lighting Up The Dark Universe* (PI: Nelson Padilla).
- PI, GEMINI-CONICYT Grant 32090009, 2010, “Sabbatical leave”, grant covering airfares, US\$ 2,000.
- PI, ALMA-CONICYT Grant 31090009, 2010, “Sabbatical Leave to the University of Washington: Adding the sub-mm Windows to the Local Volume Legacy Survey”, US\$ 6,000.
- PI, FONDECYT Regular Grant 1085267 (2008 – 2011), *The Impact of Environment on Stellar Formation in Low Surface Brightness Galaxies*. ~US\$120,000 (co-Is: Leonardo Bronfman and Nelson Padilla).
- Sponsor Investigator, FONDECYT Postdoctoral, Rodrigo Parra, 2008-2009.
- PI, FONDECYT Regular Grant 1040359 (2004 – 2008), *Improving our Understanding of Low Surface Brightness Galaxies*. ~US\$92,000.
- DIPUC starting grant 2001/14E (2001 – 2003), *Stellar Populations in Low Surface Brightness galaxies*. ~US\$7,000.
- Co-I, FONDAPE grant 15010003 (2002 – 2012): *Center for Astrophysics*. ~US\$600,000 per year (shared with other ~20 researchers).
- ECOS-Conicyt grant (1999 – 2001): *A study of galaxy evolution up to $z=0.6$* . ~US\$20,000 (shared with Valérie de Lapparent).

Participation in Conferences

- 2020: Workshop Argus-144: *Argus-144: Wider and Deeper at Green Bank: The New Argus-144 Instrument*, West Virginia, USA, September 22-24.
- 2019: IAU Symposium 355, The Realm of the Low Surface Brightness Universe, Tenerife, Spain.
- 2018: The Bewildering of Ultra Diffuse Galaxies, Leiden, The Netherlands.
- 2018: 231st Meeting of the American Astronomical Society, Washington, DC, USA.
- 2016: Disk in Galaxies, ESO Conference, Garching, Munich, Germany.
- 2016: Mock Santiago, Santiago, Chile.
- 2015: Korea-Chile Workshop, Santiago, Chile.
- 2015: XXIX General Assembly IAU, Hawaii, USA.
- 2014: 4th Chile-China Astronomy Science Workshop, Guangzhou, China.

- 2013: The First year of ALMA Science.
- 2013: 221st Meeting of the American Astronomical Society, Long Beach, California, USA.
- 2013: LARIM 2013, XIV Latin American Regional IAU Meeting, Florianopolis, Brasil.
- 2012: 213rd Meeting American Astronomical Society, Long Beach, California, USA.
- 2011: 219th Meeting, American Astronomical Society, Austin, Texas.
- 2010: Oxford Physical Conference Series, Molecules in Galaxies, Oxford, UK.
- 2010: VIII Annual Meeting, SOCHIAS, Concepción, Chile.
- 2009: VII Annual Meeting, SOCHIAS, Santiago, Chile.
- 2007: IAU Symposium 245, Formation and Evolution of Galaxy Bulges, Oxford, UK.
- 2007: VI Annual Meeting, SOCHIAS, Valparaíso, Chile.
- 2007: 207th Meeting of the American Astronomical Society, Washington DC, USA.
- 2007: Sub-millimeter Astronomy in Chile during the Pre-ALMA Era, Santiago, Chile.
- 2006: IAU Symposium 241, Stellar Populations as Building Blocks of Galaxies, La Palma, Spain.
- 2006: 5th Annual Meeting, SOCHIAS, La Serena, Chile.
- 2006, LENAC Latin-American Workshop, Guarujá, Brasil.
- 2005: 11th Latin American Regional IAU Meeting, Pucon, Chile
- 2004: SED 2004, Heidelberg, Germany.
- 2004: 3rd Annual Meeting, SOCHIAS, Santiago, Chile.
- 2003: 2nd Annual Meeting, SOCHIAS, Santiago, Chile.
- 2002: Stellar Candles for the Extragalactic Distance Scale, Concepción, Chile.
- 2002: The Outer Edges of Dwarf Irregular Galaxies: Stars and Gas, Flagstaff, Arizona, USA.
- 2000: Stars, gas and dust in galaxies: exploring the links, La Serena, Chile.
- 1999: Omega Workshop, Pucón, Chile.
- 1999: ESO Topical Meeting, Physics of galaxies.
- 1998: 14th IAP Colloquium, Paris, France.
- 1998: XI Simposio Chileno de Física, Santiago, Chile.
- 1997: Workshop on the Evolution of Clusters of Galaxies, Viña del Mar, Chile.

Teaching and student supervision

- Teaching of Physics and Astronomy courses for Astronomy, Physics, and Engineering students at the undergraduate and graduate level. Including *Astronomy*, *General Astrophysics*, *Observational Astrophysics*, *Mechanics*, *Cosmology*, *Cosmic Microwave Background Radiation*, *Radiative Processes in Astrophysics* (at least 1 course/semester since 2002), *Astronomy 101* (March 2020-December 2020).
- Bachelor Students:
 - Supervisor
 - 2003: Alvaro Villalobos.
 - 2004: Trinidad Browne, Roberto González.
 - 2005: Iván Lacerna, Eduardo Befferman.
 - 2007: Rodrigo Herrera.
 - 2009: Elías Lira, Daniel Valdés.
 - 2010: Karin García.
 - 2014: Luis Busta.
 - 2016: Guadalupe Lizana, Germán Cheuque.
 - 2019: Vicente Salinas
 - Co-Supervisor
 - 2002: Jorge Cuadra.
 - 2004: Roberto Muñoz.
 - 2005: Timo Anguita, Roberto Assef, Víctor Serey
 - 2006: Gabriel Prieto, Paula Zelaya, Matías Carrasco.

- 2007: Mauricio Cisternas, Cynthia Herrera, Paula Urrutia.
 - 2008: Mauricio Carrasco, Nicolás Rojas.
 - 2009: Daniela Rico.
 - 2010: Cristóbal Sifón.
 - 2011: Silvio Rodríguez.
 - 2012: Salvador Salazar.
 - 2013: Sergio Contreras.
 - 2014: Stefano García.
 - 2015: Karen Ribbeck.
 - 2016: Tomás Ahumada.
 - 2019: Romina Dinamarca, Javiera Díaz.
 - 2020: Claudio Hernández, Vania Rodríguez, Jorge Riveros.
- Graduate Students:
 - Supervisor
 - 2009: Rodrigo Herrera (MSc).
 - 2014: Rodrigo Leiva (MSc).
 - 2015-2016: Eva Riveros (MSc).
 - 2017-2018: Katerine Joachimi (PhD).
 - 2019: Katerine Joachimi (MSc).
 - Co-Supervisor
 - Tianwen Cao (PhD student, NAOC, China).
 - Rev. Committee
 - 2002: Beatriz Sabogal (MSc).
 - 2004: Patricio Lagos (MSc).
 - 2008: Daniela Villegas (PhD).
 - 2009: Claudia Lagos (MSc).
 - 2009: Paulina Troncoso (MSc).
 - 2011: Heather Andrews (MSc).
 - 2012: Iván Lacerna (PhD).
 - 2012: Paula Aguirre (PhD).
 - 2013: Alejandra Rojas (MSc).
 - 2013: Osmar Rodríguez (MSc).
 - 2013: Gustavo Morales (MSc).
 - 2013: Martin Tourneboeuf (MSc).
 - 2016: Matthew Taylor (PhD).
 - 2017: Sergio Contreras (PhD).
 - 2020: Jonathan Gómez, Karen Ribbeck, César Calderón.
 - 2020: Luis Enríquez Pérez-Montañó (PhD student, UNAM, Mexico).

Administration, committee work, science referee, Science Policy

- Appointed, Qualification Committee, Instituto de Astrofísica, November 2020.
- Director of UC Observatory, September 2020 to present.
- Appointed referee for the Accreditation by the CNA for the Joint PhD Programme in Physical Sciences Pontificia Universidad Católica de Valparaíso/Universidad Técnica Federico Santa María, October – November 2019.
- Invited to a private discussion on Science, with the Ministry of Science, Palacio de la Moneda, January 2019.
- Invited by the Ministry of Science for a lunch with the President of the Republic of Chile and other 11 Chilean scientists (Palacio de la Moneda) for discussing about science prospects in Chile (January 2019).

- Appointed referee for the Accreditation by the CNA for the PhD in Astronomy, Universidad de Chile, December 2018 – January 2019.
- Representative of the University President for the Academic Qualifying process for the Faculty of Biology, PUC, 2018 – 2019.
- Appointed Advisor of the Committee for Research of Anomalous Aerial Phenomena (CEFAA), Dirección de General de Aeronáutica Civil DGAC (2018+).
- Director, Institute of Astrophysics, Pontificia Universidad Católica de Chile (re-elected April 2017 – April 2020)
- Appointed member, Council for Internationalization, Pontificia Universidad Católica de Chile (October 2017+).
- Appointed member, sub-commission for Internationalization, Accreditation Process, Pontificia Universidad Católica de Chile (October 2017).
- Referee, Palomar Observatory, USA.
- Member of the LSST Galaxies Science Collaboration Group.
- Head of the Development Plan (2015-2020), Institute of Astrophysics.
- Leader of the organization of the Chile-China Joint Committee (2014).
- Director, Institute of Astrophysics, Pontificia Universidad Católica de Chile (elected 1 April 2014 – April 2017).
- Member, Faculty of Physics Dean Searching Committee (elected, 2013).
- Member of the GEMINI-CONICYT Time Allocation Committee (2012 - 2019).
- Member of the ALMA Assessor Panels (2011+).
- Head of the *Accreditation for the PhD* program (2012-2013).
- Head of the Graduate Program in Astronomy at the DAA, PUC (2011-2013).
- Head of the Undergraduate Program in Astronomy at the DAA, PUC (2007-2009).
- Department Representative to the Faculty Council (2009-2010).
- Member of the Physics and Astronomy Panel, FONDECYT (2008-Jan 2010).
- Head of the Outreach Committee, Faculty of Physics (2007-2010).
- Member of the Faculty Search Committee (2007 and 2008).
- Member of the ALMA-CONICYT Committee (2008- Jan 2010).
- Head of the Qualifying Exam Committee (2006-2007).
- Co-Chair, Local Organizing Committee of the 11th Latin American Regional IAU Meeting, held in Pucón, Chile, December 2005.
- Member of the Organizing Committee of the 2nd Chilean Advanced School of Astrophysics, “First Large Scale Structures in the Universe and their Evolution”, held in Santiago, Chile, December 2004.
- Executive Director (elected, January 2004-January 2006), Sociedad Chilena de Astronomía (SOCHIAS).
- Outreach Director, Astronomy and Astrophysics Department, PUC (2003 - 2007).
- Director, Outreach Committee, Faculty of Physics PUC (2006+).
- Referee Explora-Conicyt grants.
- Referee Fondecyt Regular and postdoctoral grants. Referee, CONICYT grants (2003, 2005, 2011, 2014).
- Referee, CONACYT (Argentina science grants, 2012, 2013, 2014).
- Referee International Cooperation Projects, Fondecyt.
- Referee for international astronomy and astrophysics journals: The Astrophysical Journal, The Astronomical Journal, and Astronomy & Astrophysics.

Outreach (selected)

- Interview TV Deutsche Welle (DW), March 2021.
- “Astronomía en tu casa”, invited by Núcleo Milenio of Supermassive Black Holes, April 2020.

- Interview TXS radio (by Macarena Rojas Abalos), June 2020.
- “Flight into the Dark” concept leader. Flight to the total solar eclipse 2 July 2019, Sky Airlines and the National Geographic Society.
- TV Interview in CNN Chile and MegaPlus, concerning the total solar eclipse 2 July 2019.
- Focused interview, newspaper La Segunda, concerning the “Flight into the Dark”, flight to the total solar eclipse by Sky Airlines, July 2019.
- Interview talk “Red Líbero”, May 2019.
- Interview for the program “Invitation au Voyage”, Arte-France TV, May 2019.
- Invited Speaker, Congreso del Futuro, January 2019.
- Interview at Paranal/VLT for Deutsche Welle, Nov. 2018.
- Main role in the Eco-Documentary “The Journey”, sponsored by SCANIA, August 2018.
- Interview, ADN radio, November 2017.
- Invited speaker in “Protagonistas 2030: Ideas de Futuro”, El Mercurio, October 2017.
- Main role in the documentary “Star Stuff”, directed by Milad Tangshir, June 2017.
- Invited talk at “Estudio Abogados Carey”, Santiago, April 2017.
- Invited talk at “Nerd Night” at *Maker Space*, Santiago, November 2016.
- Talk “1000 Científicos 1000 Aulas”, sponsored by Astroavión in Corporación Educacional de Melipilla, April 2017.
- Talk “1000 Científicos 1000 Aulas” sponsored by *Astroavión* in Colegio Christian College in San Fernando, October 2016.
- Invited talk series at Universidad Adolfo Ibáñez, Santiago, October 2016.
- Organizer, “El Impacto de la Física y la Astronomía en Nuestra Sociedad: Ejemplos y Desafíos”, on *Diálogos de Ecología Humana*, meeting of students and faculty at the Faculty of Physics, August 2016.
- Invited outreach talks, anniversary 100 *Colegio Germania*, Puerto Varas, May 2016.
- Invited moderator, IV Congreso del Futuro, January 2015.
- Talk “1000 Científicos 1000 Aulas” sponsored by *Astroavión* in Colegio La República, Rancagua, October 2015.
- Invited speaker, III Congreso del Futuro, January 2014.
- EMOL astronomy columns (2014+).
- Outreach mentor, for *Colegio Hermanos Sotomayor*, Melipilla, Chile, June 2014 and June 2015.
- *Astroavión (Astroplane)* private initiative, to give astronomy talks and distribute didactic material for basic and secondary students in poor and isolated, rural schools in Chile, reachable easily by airplane (2013, 2014 and 2015).
- Invited speaker, TED x Santiago, October 2013.
- Author, “*Galaxias: Islas del Universo*”, book by Ediciones B, 2013.
- Starring “*Nostalgia de la Luz*”, documentary film by Patricio Guzman. Atacama Productions, 2010.
- Conductor, “*Cazadores de Ciencia*”, science documentary with 13 chapters, transmitted by TVN (principal TV broadcasting in Chile), 2008.
- Editor in Chief, FONDAP Center for Astrophysics Outreach Book Series (2007).
- Lecturer for astronomy courses at Centro de Extensión, PUC (2006 and 2007).
- Scientific consulting and conductor “*Cazadores de Ciencia*”, documentary to be presented at TVN.
- Talks at elementary and high schools and national amateur astronomy meetings.
- Mini-courses for the general public at PUC Outreach Center.
- Author of several articles to general public in main newspapers in Chile.
- Several interviews on astronomical subjects on nation-wide TV and radio.
- Scientific consulting and conductor of the Documentary “*Deep Impact*”, *Cazadores de Ciencia* Productions (Transmitted by TV Channel 13, 2005).
- Scientific consulting and conductor of the Documentary “*100 años luz*”, *Cábala Productions* (Transmitted by Canal 13 cable, 2004).
- Exposition “*Old Astronomical Instruments in Chile*”, Outreach Center, PUC (2004).

- Scientific Editor “Dossier de Astronomía”, Revista Universitaria, nº 83, PUC (2004).
- Organizer from the 1st to the 5th Andes-Carnegie Summer School in Astronomy for Undergraduates, Las Campanas Observatory (1997 – 2001).

Invited Seminars, scientific visits and workshops

- Colloquium PUCV, November 2020.
- UNAM, September 2020.
- Visiting Professor Columbia University, NY (December 2015).
- Chair Workshop of Professors from University of Notre Dame (October 2015).
- Visiting Professor, workshop with professors of Ohio State University (April 2014).
- Universidad Diego Portales, 2014.
- Invited, IV Chile-China Astronomy Science Workshop, Guangzhou, China (December 2014).
- Institute d’Astrophysique de Paris (IAP), Paris, France (December 2014).
- Universidad de Concepción, Concepción (2000, 2011).
- Visiting Professor, University of Washington, Seattle (May-August 2010).
- Visiting Professor, University of Maryland at College Park (September-December 2010).
- Departamento de Física, Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile, Santiago (2005, 2012).
- Universidad Andrés Bello, Santiago (2009).
- University of Florida, Gainesville (2000).
- Princeton University, Princeton, NJ (2002).
- Columbia University, New York (2002).
- Universidad de Chile, Santiago (2002, 2005, 2008, 2010, 2012, 2013, 2014).
- Centro de Estudios Científicos (CECS), Valdivia (2005, 2009).
- Pontificia Universidad Católica de Chile, Santiago (2000).
- Pontificia Universidad Católica de Valparaíso, Valparaíso (2002, 2004, 2007, 2012).
- Carnegie Observatories, Pasadena (1998, 1999, 2000, 2004).
- Rio de Janeiro Observatory, Rio de Janeiro (1998).

Conference organization, SOC, LOC

- SOC Member, *Argus-144: Wider and Deeper at Green Bank: The New Argus-144 Instrument*, West Virginia, USA, 2020
- SOC member, IAU Symposium 355, *The Realm of the Low Surface Brightness Universe*, Tenerife, Spain, 2019.
- D. Alloin, K. Olsen & G. Galaz (2000), editors, *Stars, gas and dust in galaxies: exploring the links*, vol. 221 of the Astronomical Society of the Pacific Conference Series.
- Member of SOC and LOC Conference *Stars, gas and dust in galaxies: exploring the links*, La Serena, Chile, 2000.

Books

- Galaz, Gaspar 2013, “Galaxias: Islas del Universo”. Ediciones B, Santiago, Chile.
- Abell, P. and 238 co-authors 2009. “LSST Science Book v2.0”. (<http://www.lsst.org/lsst/scibook>). Chapter on Galaxies.

Observational Experience

- Remote and in-situ observing runs, 100m Green Bank Telescope, 2018.
- Since 1995 to present, more than 40 observing runs in telescopes, including 3.5m NTT, 8.2m VLT, 15m SEST (ESO); 2.5m du Pont (Carnegie), 1.0m Swope (Carnegie), 6.5m Magellan (Carnegie); 4m Blanco, 1.5m CTIO; 8.2m Gemini (NOAO); 12m APEX at 850 μm , line and bolometric observations. CARMA sub-mm telescope, Atacama Large Millimeter Array (ALMA). CO Observations in the Green Bank Telescope, USA. These observations include optical and near-IR imaging and spectroscopy, IFU observations and mm and sub-mm observations.
- All of the above observing runs were obtained from original proposals accepted by the corresponding Time Allocation Committees (TACs).

Publications in International Refereed Journals

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Professional Societies

- Member, Sociedad Chilena de Astronomía (SOCHIAS).
- Member, American Astronomical Society (AAS).

Other Societies and Associations

- Member, The Cloud Appreciation Society.
- Member, Aircraft Owners and Pilots Association (AOPA).

Others

- Private Pilot (ratings: Land, single engine, airplane).
- Certified Flight Instructor (CFI).