

# Franz Erik Bauer — Curriculum Vitae

Contact Instituto de Astrofísica, Pontificia Universidad Católica de Chile, Casilla 306, Santiago 22, Chile  
011.56.9.7378.9885 (Chile-Cell), 1.718.637.3071 (USA-cell)  
[franz.e.bauer@gmail.com](mailto:franz.e.bauer@gmail.com)  
<http://www.astro.puc.cl/~fbauer/>

## Education

2001 PhD Astronomy, University of Virginia  
1997 MSc Astronomy, University of Virginia  
1995 BSc Astronomy, summa cum laude, University of Michigan  
1995 BSc Physics, summa cum laude, University of Michigan

## Current position

2022- *Full Professor*, Instituto de Astrofísica, Pontificia Universidad Católica de Chile  
2009- *Adjunct Research Scientist*, Space Science Institute

## Professional History

2013-2022 *Associate Professor*, Instituto de Astrofísica, Pontificia Universidad Católica de Chile  
2009-2013 *Assistant Professor*, Instituto de Astrofísica, Pontificia Universidad Católica de Chile  
2007-2009 *Research Scientist*, Columbia Astrophysics Laboratory Columbia University  
2004-2007 *Chandra Postdoctoral Fellow*, Columbia Astrophysics Laboratory Columbia University  
2003-2004 *Research Associate*, Institute of Astronomy University of Cambridge  
2000-2003 *Research Associate*, Department of Astronomy & Astrophysics, Pennsylvania State University  
1997-2000 *Jansky Pre-Doctoral Fellow*, National Radio Astronomy Observatory  
1995-1997 *Graduate Research Assistant*, Department of Astronomy, University of Virginia  
1994-1995 *Research Assistant*, Department of Astronomy, University of Michigan

## Grants, Honours & Awards

2004-2007 Chandra Postdoctoral Fellowship, Chandra X-ray Center  
1999-2000 Aerospace Graduate Research Fellowship, Virginia Space Grant Consortium  
1997-1999 Du Pont Research Fellowship, University of Virginia  
1997-2000 Jansky Pre-Doctoral Fellow, National Radio Astronomy Observatory

## Areas of Specialisation

Black Hole Physics, Structure, Demographics, Feeding, and Evolution  
Galaxy Formation and Coeval Growth of Galaxies and Super-Massive Black Holes  
Large Surveys (Radio through X-ray, Imaging/Spectroscopic, Time-Domain)  
Transients (SNe, TDEs, FXTs, GW Events, Changing-State AGN)

# Teaching Experience

## Instructor

- Astronomía - dictado en inglés, Pregrado, Pontificia Universidad Católica de Chile  
2011A (69 students), 2011B (46 students), 2012A (27 students), 2013A (62 students),  
2014A (30 students), 2015B (50 students), 2016A (55 students), 2018B (75 students),  
2019B (84 students), 2022A (72 students), 2024B (47 students)
- Astrofísica Extragaláctica Avanzada, Postgrado, Pontificia Universidad Católica de Chile  
2018A (2 students), 2019A (21 students), 2020A (16 students), 2022B (15 students),  
2023A (15 students)
- Procesos Físicos en Astrofísica, Postgrado, Pontificia Universidad Católica de Chile  
2012B (7 students), 2013B (12 students), 2014B (8 students), 2017B (8 students)  
2020A (14 students), 2021A (10 students), 2025A (12 students)
- Introducción de Analisis de Datos, Pregrado, Pontificia Universidad Católica de Chile  
2015A (34 students)
- Radioastronomía, Pregrado/Postgrado, Pontificia Universidad Católica de Chile  
2010B (8 students)
- Seminario de Astrofísica, Postgrado, Pontificia Universidad Católica de Chile  
2010A (10 students)
- Supermassive Black Holes, Pregrado/Postgrado, Pontificia Universidad Católica de Chile  
2021B (11 students)
- Introduction to Observational Astronomy, Undergraduate, University of Virginia  
1999B (35 students), 2000A (40 students)

## Co-Instructor

- Topicos de Astronomía, Postgrado, Pontificia Universidad Católica de Chile  
2009B (3 students), 2010B (2 students), 2011B (5 students), 2012B (4 students),  
2013B (4 students)
- Fronteras de la Astrofísica, Postgrado, Pontificia Universidad Católica de Chile  
2015A (3 students), 2015B (5 students), 2016A (6 students), 2017B (25 students),  
2018A (20 students), 2018B (21 students), 2019A (23 students), 2019B (19 students),  
2020A (29 students), 2020B (14 students), 2021A (21 students), 2021B (14 students)  
2022A (25 students), 2022B (12 students), 2023A (25 students), 2024B (18 students)
- Intro to the Sky and the Solar System, Undergraduate, University of Virginia  
1996B (80 students)

## Lab Instructor

- Introductory Astronomical Observing, Undergraduate, University of Virginia  
1995B (40 students), 1996A (40 students), 1996B (40 students), 1997A (40 students)

## Advisor

- Practica de Licenciatura, Pregrado, Pontificia Universidad Católica de Chile  
2010B (1 student), 2011B (2 students), 2018A (1 student), 2020A (1 student),  
2021A (1 student), 2021B (1 student), 2022A (1 student), 2022B (1 student)
- Trabajo de Investigación A, B or C, Postgrado, Pontificia Universidad Católica de Chile  
2012B (1 student), 2013B (1 student), 2014A (1 student), 2014B (1 student),  
2016A (1 student), 2017A (2 students), 2018A (2 students), 2018B (2 students),  
2019A (2 students), 2019B (5 students), 2020A (5 students), 2021A (3 students),  
2022A (3 students), 2022B (1 student), 2023A (5 students), 2023B (1 student),  
2024A (3 student), 2024B (1 student)
- Proyecto de Tesis (Magister or Doctorado), Postgrado, Pontificia Universidad Católica de Chile  
2021B (2 students), 2022B (1 student), 2023B (4 students), 2024B (2 students)

- Tesis de Magister, Postgrado, Pontificia Universidad Católica de Chile  
2014B (1 student), 2017B (1 student), 2018A (1 student), 2020A (2 students),  
2020B (3 students), 2021A (3 students), 2021B (1 students), 2022A (1 student),  
2022B (1 student), 2023A (1 student), 2023B (1 student), 2024A (2 students),  
2024B (2 students)
- Tesis de Doctorado, Postgrado, Pontificia Universidad Católica de Chile  
2017B (1 student), 2018A (1 student), 2019A (1 student), 2019B (1 student),  
2020A (1 student), 2020B (2 students), 2021A (3 students), 2021B (3 students),  
2022A (4 students), 2022B (4 students), 2023A (5 students), 2023B (3 students),  
2024A (4 students), 2024B (4 students)

# Supervisions

## Postdoctoral Fellows

- 2024- Alejandra Rojas (CATA Postdoc), PUC-Chile
- 2023-2024 Jonathan Quirola-Vasquez (Postdoc), MAS (currently Postdoc at Radboud University)
- 2020- Alejandra Muñoz Arancibia (MAS Postdoc), MAS
- 2020-2023 Lorena Hernandez Garcia (MAS Postdoc), MAS (currently Postdoc at Universidad de Valparaíso)
- 2018-2021 Demetra De Cicco (MAS Postdoc/FONDECYT Fellow), PUC-Chile (currently Professor at Università degli Studi di Napoli Federico II)
- 2019-2021 Paula Sánchez-Saez (MAS Postdoc, FONDECYT Fellow), PUC-Chile (currently Staff Scientist at ESO-Garching)
- 2018-2020 Fabio Vito (Chile-China Fellow), PUC-Chile (currently Researcher at INAF-Bologna)
- 2018-2019 Lucia Guaita (ALMA-CONICYT Postdoc), PUC-Chile (currently Profesor Asistente at Universidad Andres Bello)
- 2015-2019 Sam Kim (FONDECYT Fellow/MPIA Postdoc), PUC-Chile (currently Telescope and Instrument Operator, ESO)
- 2015-2018 Johannes Buchner (MAS Fellow / FONDECYT Fellow), PUC-Chile (currently Postdoc at MPE)
- 2015-2018 Claudio Ricci (Anillo-NuSTAR Postdoc / Chile-China Fellow), PUC-Chile (currently Profesor Asociado at Universidad Diego Portales)
- 2015-2018 Jorge González-López (FONDECYT Postdoc / CONICYT-ALMA Postdoc), PUC-Chile (currently Profesor Asistente at PUC-Chile)
- 2013-2016 Jesús Corral-Santana (FONDECYT Fellow), PUC-Chile (currently Staff Scientist at ESO-Vitacura)
- 2012-2016 Steve Schulze (MCSS Fellow/FONDECYT Fellow), PUC-Chile (currently Research Scientist at Northwestern University)
- 2012-2016 Cristina Romero-Cañizales (CONICYT-ALMA Postdoc/FONDECYT Fellow), PUC-Chile (currently Postdoc at Academia Sinica Institute)
- 2014-2016 Nicolas Laporte (CONICYT-Gemini Postdoc / FONDECYT Fellow), PUC-Chile (currently Assistant Astronomer, Laboratoire d'Astrophysique de Marseille)
- 2012-2014 Eduardo Ibar (FONDECYT Fellow), PUC-Chile (currently Profesor Asociado at Universidad de Valparaiso)
- 2013-2014 Patricia Arévalo (Anillo-NuSTAR Fellow), PUC-Chile (currently Profesor Asociado at Universidad de Valparaiso)
- 2011-2014 Cristian Saez (FONDECYT Fellow / Anillo Postdoc), PUC-Chile (currently adjunct Profesor at Universidad de Chile)

## Graduate Students

- 2024 Santiago Gil (PhD semester project), PUC-Chile
- 2024 Manuel Pavez (PhD semester project), PUC-Chile
- 2024 Devika Mukhi (Magister thesis), PUC-Chile
- 2023 Jennifer Chacon (PhD semester project), PUC-Chile
- 2023 Miguel Parra Tello (Magister thesis), PUC-Chile
- 2023 Javier Correa Orellana (Magister thesis), PUC-Chile
- 2023-2024 Juan Pablo Carvajal (PhD semester project), PUC-Chile
- 2023 Audrey Budlong (Fulbright Fellow), University of Washington/PUC-Chile
- 2023 Vincenzo Petrecca (visiting PhD), Università degli Studi di Napoli Federico II/PUC-Chile
- 2023 Joaquin Hernandez (PhD semester project), PUC-Chile
- 2022- Benedict Luke Rouse (PhD), PUC-Chile
- 2022- Anastasia Shlentsova (PhD), PUC-Chile
- 2021- Laura Natalia Martinez (PhD), PUC-Chile
- 2020- Ernesto Camacho (PhD), PUC-Chile
- 2020- Priscilla Jorge Behar (PhD), PUC-Chile
- 2020-2023 Andrés Scherer (PhD thesis), PUC-Chile (current Adjunct Professor at PUC)
- 2019- Carlos Orquera (Magister thesis), PUC-Chile
- 2016-2023 Jonathan Quirola-Vasquez (Magister thesis; PhD thesis), PUC-Chile (currently Postdoc at Radboud University)
- 2019-2022 Goran Doll (Magister thesis, publication), PUC-Chile (current PhD candidate at Napoli)
- 2018-2021 Gonzalo Prieto (Post-Licenciatura project/Magister thesis), PUC-Chile (currently PhD candidate at DAWN-Copenhagen)
- 2018-2020 Carolina Andonie (Magister thesis), PUC-Chile (currently PhD candidate at Durham University)

2019 Cristian Vargas (PhD semester-project), PUC-Chile  
 2015-2019 Rodrigo Carvajal (Post-Licenciatura project/Magister thesis), PUC-Chile (currently PhD candidate at University of Lisbon)  
 2013-2019 Paola Miryam Flores Sanchez (Magister thesis), PUC-Chile  
 2016 Ismael Pessa (Magister semester-project), PUC-Chile  
 2015 Francisco Ley (Magister semester-project), PUC-Chile  
 2014-2015 Gergely Hadju (Magister semester-project), PUC-Chile  
 2014-2016 Diego Calderon (PhD semester-project), PUC-Chile  
 2012-2013 Alejandra Muñoz Arancibia (PhD semester-project), PUC-Chile (currently Postdoc at MAS)  
 2002 Bret Lehmer (PhD semester-project), Pennsylvania State University (current Associate Professor at University of Arkansas)

### **Undergraduate Students**

2024 Benjamin Gomez (Licenciatura thesis), PUC-Chile  
 2023 Catalina Muga (summer project), PUC-Chile  
 2023 Lucas Purcell (summer project), PUC-Chile  
 2022- Devika Mukhi (Summer project, Licenciatura thesis, post-Licenciatura), PUC-Chile  
 2022 Miguel Parra Tello (Licenciatura thesis), PUC-Chile  
 2020-2022 Javier Correa Orellana (summer project, Licenciatura thesis, post-Licenciatura), PUC-Chile  
 2021 Victoria Catan (summer project), PUC-Chile  
 2021 Fabián Soto (summer project), PUC-Chile  
 2017,2020 Ariel Gonzalez (summer project, Licenciatura thesis), PUC-Chile  
 2019-2020 Emilio Sanchez (post-Licenciatura project), PUC-Chile  
 2019 Nicolás Rodríguez (summer project), PUC-Chile  
 2018 Fernando Peñaloza (post-Licenciatura project), PUC-Chile  
 2015-2018 Charlotte Simmonds Wagemann (undergraduate project, Licenciatura thesis), PUC-Chile  
 2017 Bernadita Morris (summer project), PUC-Chile  
 2017 Fabrizzio Bahamondes (summer project), PUC-Chile  
 2017 Avelyn Garcia (summer project), PUC-Chile  
 2017 Vicente Salinas (summer project), PUC-Chile  
 2017 Manuel Solimano (summer project), PUC-Chile  
 2015 Gabriela Navarro (summer project), PUC-Chile  
 2015 Guadalupe Lizana (summer project), PUC-Chile  
 2012 Camilo Muñoz (post-Licenciatura project), PUC-Chile  
 2011-2012 Astrid San Martin Jimenez (Licenciatura thesis), PUC-Chile  
 2011-2012 Pedro Salas (Licenciatura thesis, Magister semester-project), PUC-Chile  
 2010-2012 Cristobal Meunier Cornejo (Licenciatura thesis, post-Licenciatura project), PUC-Chile  
 2007-2008 Jacques Laroche (post-undergraduate project), Columbia University

## Grant Allocations (as PI, Funded Co-I, or Postdoc Sponsor)

### Chile (PI)

- 2024-2027 ANID-Chile, FONDECYT-Regular, *Spectro-Temporal Studies of AGN Populations*, #1241005, \$130,000 USD, PI.
- 2024-2026 ANID-Chile, CONICYT-ALMA, *Characterizing IMBH-powered AGN*, #31230018, \$70,000 USD, PI.
- 2020-2023 ANID-Chile, FONDECYT-Regular, *An Unprecedented Census of Black Hole Activity in the LSST Era*, #1200495, \$188,000 USD, PI.
- 2018-2019 CONICYT-Chile, CONICYT-ALMA, *Funding for AGN TORUS Workshop 2018*, #31170012, \$15,000 USD, PI.
- 2017-2020 CONICYT-Chile, PCCI-ECOS, *Exploring the Formation and Growth of Galaxies: the First 5 Gyr in the Universe*, C16U02, \$19,300 USD, PI.
- 2016-2018 CONICYT-Chile, CONICYT-ALMA, *ALMA Studies of Dusty Galaxies and AGN*, #31160033, \$70,000 USD, PI.
- 2014-2018 CONICYT-Chile, FONDECYT-Regular, *The Role of SMBHs in Galaxy Evolution*, #1141218, \$325,000 USD, PI.
- 2012-2015 CONICYT-Chile, PCCI-DAAD, *Assessing the Obscured Cosmic Star-Formation-Rate-History by Studying the Dustiest Gamma-Ray Burst Host Galaxies*, 130074, \$11,500 USD, PI.
- 2013-2015 CONICYT-Chile, CONICYT-Gemini, *Postdoctoral Position Using Chile's New NIR MOS Capabilities to Obtain Rest-Frame Optical Constraints of  $z \sim 2$  Populations*, #32120003, \$80,000 USD, PI.
- 2010-2014 CONICYT-Chile, FONDECYT-Regular, *The Role of AGN Feedback in the Coeval Growth of Supermassive Black Holes and Galaxies*, #1101024, \$100,000 USD, PI.
- 2011-2014 CONICYT-Chile, CONICYT-ALMA, *The PUC ALMA Initiative*, #31100004, \$80,000 USD, PI.

### Chile (funded co-I)

- 2023-2032 ANID-Chile, Programa de Financiamiento Basal, *Centro de Astrofísica y Tecnologías Afines (CATA) II*, FB210003, \$24,700,000 USD, Co-I.
- 2024-2025 Apoyo a Institutos Milenio, *Millennium Instituto de Astrofísica (MAS)*, AIM23-0001, \$1,000,000 USD, Co-I.
- 2013-2023 Iniciativa Científica Milenio, *Millennium Instituto de Astrofísica (MAS)*, IC12\_009, \$12,900,000 USD, Co-I.
- 2018-2021 CONICYT-Chile, Programa de Financiamiento Basal, *Centro de Astrofísica y Tecnologías Afines (CATA)*, AFB-170002, \$5,600,000 USD, Institutional Co-I.
- 2008-2018 CONICYT-Chile, Programa de Financiamiento Basal, *Centro de Astrofísica y Tecnologías Afines (CATA)*, PFB-06/2007, \$18,600,000 USD, Institutional Co-I.
- 2012-2015 CONICYT-Chile, ANILLO, *Establishing the Role of Mergers in Black Hole Growth and Galaxy Evolution*, ACT1101, \$900,000 USD, Co-I.
- 2009-2013 Iniciativa Científica Milenio, *Millennium Center for Supernova Science (MCSS)*, P10-064-F, \$900,000 USD, Co-I.
- 2002-2012 CONICYT-Chile, FONDAPE, *Centro de Astrofísica*, 15010003, \$9,000,000 USD, Institutional Co-I.

### Chile (Postdoc Sponsor)

- 2020-2021 ANID-Chile, FONDECYT-Postdoctorado, *Variable AGN Science for New-Generation Surveys*, #3200222, \$71,994,000 CLP, Sponsor of Demetra De Cicco.
- 2018-2020 CONICYT-Chile/CASSACA, China/CONICYT Joint-Postdoctorado, *Probing the Early Growth of Supermassive Black Holes*, #CAS17010, \$52,936,000 CLP, Sponsor of Fabio Vito.
- 2015-2018 CONICYT-Chile, FONDECYT-Postdoctorado, *Robust Constraints On The Growth Of Super-Massive Black Holes*, #3160439, \$71,994,000 CLP, Sponsor of Johannes Buchner.
- 2015-2016 CONICYT-Chile, FONDECYT-Postdoctorado, *Exploring The Frontiers Of The Universe*, #3160122, \$71,392,000 CLP, Sponsor of Nicolas Laporte.
- 2015-2018 CONICYT-Chile/CASSACA, China/CONICYT Joint-Postdoctorado, *Tracing Circumnuclear Material In Supermassive Black Holes*, #CAS14005, 04/2015-04/2018, \$72,000,000 CLP, Sponsor of Claudio Ricci.
- 2014-2017 CONICYT-Chile, FONDECYT-Postdoctorado, *An Extinction-Free View Of Star Forming Galaxies And Their Constituents Through Radio And mm/sub-mm Observations*, #3130504, 10/2014-09/2017, \$70,200,000 CLP, Sponsor of Cristina Romero-Cañizales.
- 2014-2017 CONICYT-Chile, FONDECYT-Postdoctorado, *Probing The Nature Of Gamma-Ray Bursts With High-Luminosity Supernovae In Sub-Luminous Dwarf Galaxies*, #3140534, \$67,500,000 CLP, Sponsor of Steve Schulze.
- 2015-2017 CONICYT-Chile, FONDECYT-Postdoctorado, *Dust Obscuration in AGN*, #3140436, \$70,500,000 CLP, Sponsor of Robert Nikutta.
- 2014-2017 CONICYT-Chile, FONDECYT-Postdoctorado, *Increasing The Census Of Galactic Stellar-Mass Black Holes In X-Ray Binaries*, #3140310, \$70,500,000 CLP, Sponsor of Jesus Corral-Santana.
- 2012-2015 CONICYT-Chile, FONDECYT-Postdoctorado, *Using ALMA To Reveal The Star-Formation And AGN Activity In Samples Of Herschel-Detected Galaxies*, #3130504, \$67,916,000 CLP, Sponsor of Eduardo Ibar.
- 2011-2013 CONICYT-Chile, FONDECYT-Postdoctorado, *A Multiwavelength Study Of AGN Evolution And Quasar Outflows*, #3120198, \$42,500,000 CLP, Sponsor of Cristian Saez.

## **USA (PI)**

- 2019-2021 NASA, *Chandra X-ray Observatory Cycle 20, J1047+0739: X-ray weak obscured AGN or extreme starburst?*, SAO #20700665, \$51,820 USD, PI.
- 2015-2016 NASA, *NuSTAR Observatory Cycle 1, When in the Major Merger Sequence is (Obscured) Black Hole Growth Triggered?*, NUSTAR-GO-1274.01A, \$53,825 USD, PI.
- 2015-2016 NASA, *Hubble Space Telescope Cycle 22, HST Follow-up of a Fast Unexplained X-ray Transient in the CDF-S*, HST-GO-14043.01A, \$30,294 USD, PI.
- 2011-2013 NASA, *Swift Cycle-5, Tracking the X-ray Evolution of the Enigmatic SN1996cr*, NNX11AH17G, \$35,000 USD, PI.
- 2010-2012 NASA, *Chandra X-ray Observatory Cycle 11, The X-ray Emission from SN 1993J: Resolving Almost Two Decades of Conflict with Detailed Spectral Monitoring*, SAO GO1-12095B, \$5,000 USD, Co-I.
- 2009-2012 NASA, *Chandra X-ray Observatory Cycle 10, Tracking the X-ray Evolution of the Enigmatic SN1996cr*, SAO GO0-11095A, \$9,268 USD, PI.
- 2010-2012 NASA, *Chandra X-ray Observatory Cycle 9, CDFS: Public Source Catalogs and Active-Galaxy Spectral Constraints*, SAO SP1-12007B, \$7,358 USD, Co-I.
- 2009-2011 NASA, *Chandra X-ray Observatory Cycle 9, A Deep HETG Probe of the CSM Interaction in SN1996cr*, SAO GO9-0086A, \$102,070 USD, PI.
- 2008-2011 NASA, *Chandra X-ray Observatory Cycle 9, Exploratory Chandra Observations of Low-Metallicity AGN Candidates*, SAO GO9-0106C, \$11,998 USD, Co-I.
- 2008-2010 NASA, *Chandra X-ray Observatory Cycle 9, A Complete Census of AGN Activity in Luminous Infrared Galaxies*, SAO GO9-0134C, \$25,557 USD, Co-I.
- 2007-2010 NASA, *Chandra X-ray Observatory Cycle 8, Constraining the Continued Rise of SN1996cr*, SAO GO9-9074X, \$42,984 USD, PI.
- 2004-2007 NASA, *Chandra Fellowship 2004, Understanding of the Nature of the Cosmic X-ray Background*, SAO PF4-50032, \$186,000 USD, PI.
- 2002-2004 NASA, *Chandra X-ray Observatory Cycle 3, A Chandra and HST Study of IC 10: The Nearest Starburst Galaxy to the Milky Way*, SAO GO3-4112X, \$29,421 USD, PI.
- 2002-2004 NASA, *Hubble Space Telescope Cycle 9, A Chandra and HST Study of IC 10: The Nearest Starburst Galaxy to the Milky Way*, HST-GO-09683.01A, \$22,102 USD, PI.
- 2001-2004 NASA, *XMM-Newton X-ray Observatory AO2, Establishing X-ray Emission as a Star Formation Indicator*, NAG5-10089, \$35,924 USD, PI.
- 1999-2000 Virginia Space Grant Consortium, *Aerospace Graduate Research Fellowship, A Study of the intersection of the NVSS-ROSAT All Sky Surveys*, \$5,000 USD, PI.

## Observing Awards (as PI or primary co-I only)

- 2024 Gemini South Observatory, Gemini-S GMOS, *Determining the origin of the elusive Extragalactic Fast X-ray Transients*, 12.8 hrs (100% useful), PI
- 2024 Gemini South Observatory, Gemini-S GMOS, *Unmasking the origins of extragalactic fast X-ray transients detected by Chandra*, 5.3 hrs (100% useful), PI
- 2024 Cerro Tololo Inter-American Observatory, SOAR-Goodman, *SOAR ToO follow-up of optical counterparts of Extragalactic Fast X-ray Transients*, 8 hrs, PI
- 2024 Gemini South Observatory, Gemini-N GMOS, *Determining the origin of the elusive Extragalactic Fast X-ray Transients*, 5.0 hrs (100% useful), PI
- 2024 Gemini South Observatory, Gemini-S GMOS, *Determining the origin of the elusive Extragalactic Fast X-ray Transients*, 3.1 hrs (100% useful), PI
- 2024 Cerro Tololo Inter-American Observatory, SOAR-Goodman, *SOAR ToO follow-up of optical counterparts of Extragalactic Fast X-ray Transients*, 8 hrs, PI
- 2023 European Southern Observatory, VLT-MUSE, *The exceptional cluster lens SPT0615-57, the most distant lensed arc at  $z=10$ , and many lensed  $z=6$  galaxies*, 8.0 hr, PI
- 2023 Las Campanas Observatory, Magellan Baade-MagE/FIRE/FourSTAR, *Building a sample of fully characterised host galaxies of intermediate-mass black holes: NIR calibration of virial MBH estimates*, 4 nights, PI
- 2023 Las Cumbres Observatory, LCOGT 1m-Sinistro, *Obtaining optical photometry for the last holdouts among BAT AGN*, 37 hr, PI
- 2023 European Southern Observatory, VLT-XSHOOTER, *A sample of fully characterized "light-weight" supermassive black holes*, 58.5 hr, PI
- 2022 European Southern Observatory, VLT-XSHOOTER, *Internal properties of host galaxies of light-weight supermassive black holes*, 28.2 hr, PI
- 2022 Las Campanas Observatory, Magellan Baade-IMACS, *Pushing the boundaries of AGN selection in preparation for 4MOST*, 1.5 nights, PI
- 2021 ALMA Observatory, Band 3+4+6, *A Legacy Survey of SMGs in the CDF-S*, 17.8 hrs, PI
- 2021 ALMA Observatory, Band 3+4+6, *Lifting the shroud on two IRAC-dark dusty star-forming galaxies*, 8.6 hrs, PI
- 2021 Gemini South Observatory, Gemini-S GMOS, GS-2021A-FT-204, *Characterizing the Hosts of Extragalactic Fast X-ray Transients*, 3 hrs (100% useful), PI
- 2020-2029 European Southern Observatory, VISTA-4MOST, 5-yr Community Survey, *Chilean AGN/Galaxy Evolution Survey (ChANGES)*, 1,793,400 fibre-hrs (approved), co-PI
- 2019 European Southern Observatory, VLT-MUSE, *Resolving the Nearest PG Quasars with MUSE*, 3 hr, PI
- 2019 ALMA Observatory, Band 3+6, *First Systematic Study of Dense Molecular Gas in Quasars*, 29.4 hrs, PI
- 2018 Chandra X-ray Observatory, ACIS-S, J1047+0739: *X-ray weak obscured AGN or extreme starburst?*, 50 ks, PI
- 2018 Hubble Space Telescope, ACS, J1047+0739: *X-ray weak obscured AGN or extreme starburst?*, 8 orbits, PI
- 2018 ALMA Observatory, Bands 3,4,7,8, *An ACA Spectral Sampling Campaign of SN1996cr*, 23.4 hrs, PI
- 2018 ALMA Observatory, Bands 6, *Testing the Effectiveness of AGN Feedback in Quasars*, 4.8 hrs, PI
- 2018 ALMA Observatory, Band 6, *ALMA Lensing Cluster Survey*, 95.5 hrs, co-PI
- 2018 ALMA Observatory, Band 7, *An ALMA Survey of Lensed SMGs in the Hubble Frontier Fields*, 6.2 hrs, PI
- 2018 ALMA Observatory, Bands 3+4+6, *Hunting for redshifts of faint DSFGs in A2744 (Resubmission)*, 14.3 hrs, PI
- 2018-2019 European Southern Observatory, VLT-MUSE, *MUSE Mapping of the First Cluster Lens: Abell 370*, 19 hr, PI
- 2017 ALMA Observatory, Bands 5+6, *An ALMA-ACA Survey of CO(2-1) in PG QSOs*, 103 hrs, PI
- 2017 ALMA Observatory, Band 7, *An ALMA Survey of Lensed SMGs in the Hubble Frontier Fields*, 6.2 hrs, PI
- 2017 ALMA Observatory, Bands 3+4+6, *Hunting for redshifts of faint DSFGs in A2744*, 14.3 hrs, PI
- 2016 European Southern Observatory, VLT-KMOS, *Characterizing the  $<2$  mJy Submm Galaxy Population in the Frontier Fields with KMOS*, 24 hrs, PI
- 2016 ALMA Observatory, Band 7, *BASIC: A Bright ALMA Survey of SMGs in the Chandra Deep Field-South*, 3.7 hrs, PI
- 2015 ALMA Observatory, Band 7, *BASIC: A Bright ALMA Survey of SMGs in the Chandra Deep Field-South*, 2.9 hrs, PI
- 2015 ALMA Observatory, Band 6, *Lensing through Cosmic Time II: Mapping the Remaining Frontier Fields*, 21.8 hrs, PI
- 2015-2016 European Southern Observatory, VLT-MUSE, *MUSE Mapping of the First Cluster Lens: Abell 370*, 19 hr, PI
- 2015 NuSTAR Observatory, FPMA+FPMB, *ULIRGs across merger sequence*, 200ks (100% useful), PI
- 2015 Las Campanas Observatory, Magellan Clay-MMIRS, *Into the Deep2: Last Access to MMIRS for high-redshift galaxies*, 4 nights (10% useful), PI
- 2015 Hubble Space Telescope, WFC3, *CDF-S XT1*, 1 orbit, PI
- 2014 European Southern Observatory, FORS2, *Continued Optical follow-up of a Fast Unexplained X-ray Transient in the CDF-S*, 1 hr (100% useful), PI
- 2014 European Southern Observatory, FORS2, *Continued Optical follow-up of a Fast Unexplained X-ray Transient in the CDF-S*, 1 hr (100% useful), PI
- 2014-2015 European Southern Observatory, VLT-MUSE, *Dissection of a Lensing Cluster: A Deep MUSE Exposure of the Hubble*



*Frontier Field MACSJ0416.1-2403*, 11 hours (100%), PI

2014-2015 La Silla, Rapid Eye Mount (REM) Telescope, *Near-Term Monitoring of PESSTO Supernovae*, 70 hrs (70% useful), PI

2014 Las Campanas Observatory, Magellan Baade-FIRE, *How Robust is [OIII] as an Intrinsic AGN Luminosity Tracer?*, 1 night (100% useful), PI

2014 Las Campanas Observatory, Magellan Clay-MMIRS, *Into the Deep: Constraining the stellar continuum of high-redshift galaxies*, 4 nights

2014 Gemini South Observatory, Gemini-S GMOS, *A Spectroscopic Survey of Bright NuSTAR-Swift Targets*, 5 hrs (100% useful), PI

2014 ALMA Observatory, Band 6, *Lensing Through Cosmic Time: ALMA Constraints on "Normal" Galaxies in the HST Frontier Fields*, 15.3 hrs (100% useful), PI

2014 NuSTAR Observatory, FPMA/B, *Pinning Down the X-ray Reflection Component in the Changing-Look AGN IC 751*, 28 ks (100% useful), PI

2014 XMM-Newton Observatory, EPIC pn+MOS, *Pinning Down the X-ray Reflection Component in the Changing-Look AGN IC 751*, 28 ks (100% useful), PI

2014 Gemini South Observatory, Gemini-S GMOS, *A Spectroscopic Survey of Bright NuSTAR-Swift Targets*, 3 hrs (100% useful), PI

2014 Gemini-South Observatory, GSAOI, *GeMS Study of Supernovae in Luminous Infrared Galaxies*, GS-2013B-Q-65, 5.0 hours (69% useful), Chile-PI

2013 La Silla, Rapid Eye Mount (REM) Telescope, *Near-Term Monitoring of PESSTO Supernovae-01/2014*, 80 hrs (50% useful), PI

2013 Las Campanas Observatory, Magellan Clay-MagE, *A Spectroscopic Survey of Bright NuSTAR-Swift Targets*, 1 night (100% useful), PI

2012 Las Campanas Observatory, Magellan Clay-MMIRS, *Hunting for Galactic Black Holes, Neutron Stars, and Massive Stars in the Norma Spiral Arm*, 1.5 nights, PI

2013 Gemini-South Observatory, GSAOI, *GeMS Study of Supernovae in Luminous Infrared Galaxies*, GS-2013A-Q-9, 6.8 hours (100% useful), Chile-PI

2013 European Southern Observatory, VLT-SINFONI, *Monsters Under the Microscope - IFU-AO Observations of Hyper Luminous Infrared Galaxies-09/2013*, 22 hours (0% useful; never observed due to instrument problems), PI

2013 La Silla, Rapid Eye Mount (REM) Telescope, *Near-Term Monitoring of PESSTO Supernovae*, 0, 50 hrs (30% useful), PI

2013 Las Campanas Observatory, Magellan Clay-MagE, *A Spectroscopic Survey of Bright NuSTAR-Swift Targets*, 1 night (20% useful), PI

2012 Las Campanas Observatory, Magellan Clay-MMIRS, *Rest-frame Optical Spectra of Obscured AGN and SFGs in GOODS-S*, 4 nights (80% useful), PI

2012-2013 European Southern Observatory, VLT-VIMOS, *MOS Observations of  $z \sim 2$  Candidates in the SSA22 Protocluster*, 33.3 hours (100% useful), PI

2012 *Herschel* Observatory, SPIRE, *Constraining the Molecular Outflows in Hyper-Luminous Infrared Galaxies*, 28.9 hours, PI

2012 Las Campanas Observatory, Magellan Clay-MMIRS, *Rest-frame Optical Spectra of Obscured AGN and SFGs in GOODS-S*, 2 nights (70% useful), PI

2012 European Southern Observatory, VLT-FORS2-Polarimetry, *Follow-up Spectropolarimetry of the Luminous Type II In SN 2010jl*, 6 hours (100% useful), PI

2011 European Southern Observatory, VLT-FORS2-Polarimetry, *Spectropolarimetry of the Luminous Type II In SN 2010jl*, 2h (DDT; never observed), PI

2011 Las Campanas Observatory, Magellan Clay-MAGE, *Optical-NIR Spectroscopic Monitoring of SN1996cr*, 0.5 nights (100% useful), PI

2011 Las Campanas Observatory, Magellan Baade-FIRE, *Optical-NIR Spectroscopic Monitoring of SN1996cr*, 0.5 nights (100% useful), PI

2011 *Chandra* X-ray Observatory, ACIS-S, *The Evolution of SN 1993J*, 60 ks, Co-PI

2011-2012 European Southern Observatory, VLT-VIMOS, *Confirmation of  $z \sim 2$  Candidates in the SSA22 Protocluster*, 10 hours (100% useful), PI

2010-2011 European Southern Observatory, VLT-FORS2-Polarimetry, *Spectropolarimetry of the Luminous Type II In SN 2010jl*, 2h DDT (100% useful), PI

2010 Las Campanas Observatory, Magellan Clay-MMIRS, *Constraining  $H\alpha$  in  $z \sim 2$  Lyman  $\alpha$  Emitters in GOODS-S*, 2 nights (100% useful), Co-I

2010 Las Campanas Observatory, Magellan Clay-MMIRS, *Rest-frame Optical Spectra of Compton-Thick AGN Candidates in the CDF-S*, 1 night (0% useful), PI

2010 Las Campanas Observatory, Magellan Baade-FIRE, *Rest-frame Optical Spectra of Compton-Thick AGN Candidates in the CDF-S*, 2 nights (40% useful), PI

2010-2011 XMM-Newton X-ray Observatory, pn+MOS, *XMM-Newton Constraints on the AGN Receding Torus Model*, 194 ks, PI

2010-2012 Gemini Observatory, Gemini-South T-RecS, *Searching for Tracers of Obscured AGN in the Mid-IR Spectra of LIRGs*, 9 hrs (20% useful), PI

2010 Las Campanas Observatory, Magellan Baade-FIRE, *NIR Follow-up of quiescent X-ray Binaries in the Galactic Center*, 1.5 nights (50% useful), PI

2010-2011 Gemini Observatory, Gemini-South T-RecS, *Probing the Dust Content of SN 1996cr via Mid-IR Spectroscopy*, 9 hours (50% useful), PI

2009 Chandra X-ray Observatory, ACIS-S, *Tracking the X-ray Evolution of the Enigmatic SN1996cr*, 20 ks, PI

2009 Swift X-ray Observatory, XRT, *Tracking the X-ray Evolution of the Enigmatic SN1996cr*, 6 ks, PI

2008 Australia Telescope Compact Array, CABB, *Probing Complex Circumstellar Material in SNe: Monitoring SN1996cr and SN1978K*, 8 hr, PI

2008-2009 Chandra X-ray Observatory, HETG, *A Deep HETG Probe of the CSM Interaction in SN1996cr*, 485 ks, PI

2007 Chandra X-ray Observatory, ACIS-S, *Constraining the Continued Rise of SN1996cr*, 55 ks, PI

2003 Chandra X-ray Observatory, ACIS-S, *A Chandra and HST Study of IC 10: The Nearest Starburst Galaxy to the Milky Way*, 30 ks, PI

2003-2004 XMM-Newton X-ray Observatory, pn+MOS, *XMM First Look Survey*, 450 ks, PI

2002 Hubble Space Telescope, WFPC2, *A Chandra and HST Study of IC 10: The Nearest Starburst Galaxy to the Milky Way*, 3 orbits, PI

2001-2003 XMM-Newton X-ray Observatory, pn+MOS, *Establishing X-ray Emission as a Star Formation Indicator*, 80 ks, PI

1999 Caltech Submillimeter Observatory, 10.4m Telescope+SHARC/Heterodyne Receivers, *Searching for Cold Dust in Nearby IR-Excess Stars*, 5 nights (10% useful), co-PI

1998 National Radio Astronomy Observatory, Very Large Array A+B configurations, *Resolving Complex Radio Sources in the NVSS-ROSAT Sky Surveys*, 20 hours (100% useful), PI

1997-1999 Kitt Peak National Observatory, 2.1m Telescope+GoldCAM spectragraph, *Spectroscopic Identification and Classification of AGN in the NVSS-ROSAT Sky Surveys*, 21 nights (60% useful), PI

## Seminars, Colloquia, Invited Talks, Poster Presentations

- 2024 Talk, *4MOST-ChANGES*, Chilean Astronomical Society Annual Meeting 2024, Arica, Chile
- 2024 Invited Talk, *Multiwavelength AGN*, eROSITA International Conference, Garching, Germany
- 2024 Invited Talk, *AGN Science Collaboration Summary*, Rubin Community Workshop, Menlo Park, CA, USA
- 2024 Invited Talk, *Overview of Chilean Rubin-LSST Activities*, LSST@LATAM, La Serena, Chile
- 2024 Invited Talk, *LSST-Chile Roles*, LSST@LATAM, La Serena, Chile
- 2024 Talk, *4MOST-ChANGES*, Laboratoire d'Astrophysique de Marseille, Marseille, France
- 2024 ITC Luncheon Talk, *ALeRCE*, Harvard University, Boston, MA, USA
- 2024 HEA Lunch Talk, *Exploring the large population of extragalactic Fast X-ray Transients (FXTs)*, Harvard University, Boston, MA, USA
- 2024 Colloquium, *Exploring the large population of extragalactic Fast X-ray Transients (FXTs)*, National Radio Astronomy Observatory, Charlottesville, VA, USA
- 2024 Colloquium, *Exploring the large population of extragalactic Fast X-ray Transients (FXTs)*, Pennsylvania State University, State College, PA, USA
- 2023 Talk, *Exploring the growing population of extragalactic Fast X-ray Transients*, University of Michigan, Ann Arbor, MI, USA
- 2023 Invited Talk, *AGN Science Collaboration Summary*, Rubin LSST Project Community Workshop, Tucson, AZ, USA
- 2023 Invited Talk, *4MOST: Spectroscopically Complementing LSST*, Rubin LSST Project Community Workshop, Tucson, AZ, USA
- 2023 Invited Talk, *Survey S16: Chilean AGN/Galaxy Evolution Survey*, 4MOST Seminar series, [virtual]
- 2022 Invited Talk, *Extreme Variability and Changing Look/State AGN*, AXIS Seminar series, [virtual]
- 2022 Colloquium, *The BAT AGN Spectroscopic Survey (BASS) - A Local Legacy*, UNAB, Santiago, Chile
- 2022 Talk, *Extreme Variability and Changing Look/State AGN*, AXIS Time Domain Working Group, [virtual]
- 2022 Talk, *LSST-Chile 2019-2022 Summary*, LSST-Chile Meeting, [virtual]
- 2022 Talk, *Fast X-ray transients*, AXIS Time Domain Working Group, [virtual]
- 2022 Discussion, *The Road Ahead*, Round Table discussion for Joint Observatory Kavli Science Forum in Chile, ESO-Vitacura, Chile
- 2022 Talk, *MOONS-Science WG5:AGN*, MOONS GTO Meeting, [virtual]
- 2021 Talk, *QSOs/AGN in LSST*, DESC Seminar series, [virtual]
- 2021 Talk, *MOONS-Science WG5:AGN and WG9:Transients*, MOONS Source list meeting, [virtual]
- 2021 Invited Talk, *Rubin/Euclid DDP - LSST AGN perspective*, Rubin-Euclid Derived Data Product Forum, [virtual]
- 2021 Colloquium, *Unveiling a population of Fast Extragalactic X-ray Transients*, University of Cambridge, England [virtual]
- 2020 Colloquium, *Unveiling a population of Fast Extragalactic X-ray Transients*, University of Alberta, Canada [virtual]
- 2020 Talk, *Doing Science With ALeRCE*, ALeRCE Broker Workshop, [virtual]
- 2020 Talk, *MOONS-Science WG5: AGN*, MOONS Webinar Series, [virtual]
- 2020 Invited Talk, *4MOST Chilean AGN/Galaxy Evolution Survey (ChANGES)*, ESO 4MOST Community Workshop 2020, [virtual]
- 2020 Talk, *Updates from ASPECS and ALCS*, Friday Extragalactic Discussion Series, University of Hawaii-Manoa, Honolulu, USA
- 2020 Talk, *Discovery and Characterization of Fast Extragalactic X-ray Transients*, 235th American Astronomical Society Meeting, Honolulu, HI, USA
- 2019 Invited Talk, *The Streaming Universe: The Challenges of Classifying Alert Streams in Real Time from Current and Future Synoptic Surveys*, XVI Encuentro de Física: Desafíos Computacionales en la Física Contemporánea, Quito, Ecuador
- 2019 Talk, *Putting together a Chilean 4MOST Survey*, Monthly AGN-Santiago Meeting, Santiago, Chile
- 2019 Invited Talk, *AGN Science Needs for the Difference Image Workshop*, LSST Community Workshop 2019, Tucson, AZ, USA
- 2019 Invited Talk, *AGN Science Working Group Plenary Talk*, LSST Community Workshop 2019, Tucson, AZ, USA
- 2019 Colloquium, *ALMA constraints on distant dusty star-forming galaxies...*, ESO-Vitacura, Santiago, Chile
- 2019 Valongo Observatory Winter School, 4×2h lectures on *AGN*, Federal University of Rio de Janeiro, Rio de Janeiro, Brasil
- 2019 Colloquium, *ALMA constraints on distant dusty star-forming galaxies...*, Federal University of Rio de Janeiro, Rio de Janeiro, Brasil
- 2019 Talk, *LSST-Chile Update*, IV Workshop LSST Chile, La Serena, Chile
- 2019 Colloquium, *Assessing the structure of AGN from X-ray observations*, Università Rome Tre, Roma, Italy
- 2019 Talk, *MOONS-Science WG5:AGN and WG9:Transients*, MOONS Instrument Team Workshop 2019, Roma, Italy
- 2018 Talk, *Ubiquitous Extended Fe K-alpha emission in AGN*, TORUS2018: The Many Faces of AGN Accretion, Puerto Varas, Chile
- 2018 Talk, *High-z XLF + Photo-zs*, Accretion History of AGN, Miami, FL, USA
- 2018 Talk, *Extended X-ray Reflection is everywhere*, Accretion History of AGN, Miami, FL, USA
- 2018 Talk, *X-ray Reflection Models from few to MANY!!!*, Accretion History of AGN, Miami, FL, USA
- 2018 Talk, *NH contributions from Host Galaxies*, Accretion History of AGN, Miami, FL, USA

- 2018 Talk, *ALMA + Chile*, SOCHAIS2018, La Serena, Chile
- 2018 Talk, *Larger AGN samples... new AGN parameter spaces...*, 2018 PUC-KIAA Workshop - II Bilateral Workshop on AGN and Galaxy Evolution, Santiago, Chile
- 2018 Talk, *Needed Data-Mining to Prepare for LSST AGN Science and Chilean AGN Follow-Up Capabilities*, LSST Community Workshop 2018, Tucson, AZ, USA
- 2018 Colloquium, *ALMA Surveys of SMGs in CDF-S + FFields*, IRAP-Toulouse, France
- 2018 Talk, *Unraveling the mysteries of (narrow) Fe K $\alpha$* , ESO-BASS 2018, Santiago, Chile
- 2018 Talk, *VLT-MOONS*, CosmoAndes2018, Santiago, Chile
- 2018 Talk, *MAS-Centric Investigations*, MAS Team Meeting, Machali, Chile
- 2017 Talk, *Bright ALMA Survey of SCUBA-2 SMGs In the CDF-S (BASIC)*, Distant Galaxies from the Far South, Bariloche, Argentina
- 2017 Talk, *SMGs and DSFGs at  $z > 1$  + LSST Deep-Drilling Fields (DDFs)*, MOONS Team Meeting, Lisbon, Portugal
- 2017 Colloquium, *ALMA Observations of the Frontier Fields and CDF-S*, NAOJ, Tokyo, Japan
- 2017 Colloquium, *The Ubiquity of extended narrow Fe K $\alpha$  emission*, Kyoto University, Kyoto, Japan
- 2017 Talk, *A New, Faint Population of X-ray Transients*, Kyoto University, Kyoto, Japan
- 2017 Talk, *ALMA Observations of the Frontier Fields and CDF-S*, ICRR, University of Tokyo, Tokyo, Japan
- 2017 Talk, *A New, Faint Population of X-ray Transients*, IPMU, Tokyo, Japan
- 2017 Talk, *The Ubiquity of extended narrow Fe K $\alpha$  emission*, Institute of Astronomy at University of Hawaii-Manoa, Honolulu, HI, USA
- 2017 Colloquium, *The ALMA Frontier Fields*, Institute of Astronomy at University of Hawaii-Manoa, Honolulu, HI, USA
- 2017 Talk, *A New, Faint Population of X-ray Transients*, Nanjing University, Nanjing, China
- 2017 Talk, *A New, Faint Population of X-ray Transients*, University of Science and Technology of China, Hefei, China
- 2017 Talk, *Probing the Torus Structure of Nearby AGN*, KIAA-PUC Bilateral Workshop on Active Galactic Nuclei and Galaxies, Beijing, China
- 2017 Talk, *The ALMA Frontier Fields*, 229th American Astronomical Society Meeting, Grapevine, TX, USA
- 2016 Colloquium, *ALMA observations of the Frontier Fields*, Geneva Observatory, Geneva, Switzerland
- 2016 Colloquium, *Probing the Torus Structure of Nearby AGN*, MPE, Garching, Germany
- 2016 Colloquium, *A New, Faint Population of X-ray Transients*, MPE, Garching, Germany
- 2016 Talk, *ALMA observations of the Frontier Fields*, University College London, London, UK
- 2016 Talk, *Hubble Frontier Fields with ALMA*, "Physical Characteristics of Normal Galaxies at  $z > 2$ " Conference, Lorentz Center, Leiden, Holland
- 2016 Colloquium, *ALMA observations of the Frontier Fields*, Bologna Observatory, Bologna, Italy
- 2016 Colloquium, *ALMA observations of the Frontier Fields*, Observatoire de Lyon, Lyon, France
- 2016 Talk, *MOONS + HERE, THERE, AND EVERYWHERE*, Calan/BASAL Meeting, Santiago, Chile
- 2016 Talk, *Probing Black Holes Near and Far + Nearby "transients" + The High-z Universe*, OSU-PUC Meeting, Santiago, Chile
- 2016 Talk, *A new type of X-ray Transient?*, SOCHIAS Meeting 2016, Antofagasta, Chile
- 2016 Talk, *Probing the Torus Structure of Nearby AGN*, X-ray View of Black Hole Activity in the Local Universe, Zurich, Switzerland
- 2016 Talk, *A new type of X-ray Transient? + ALMA observations of the Frontier Fields*, Rutgers University, New Brunswick, New Jersey, USA
- 2016 Talk, *A new type of X-ray Transient?*, 227th American Astronomical Society Meeting, Kissimmee, FL, USA
- 2015 Talk, *A New Type of X-ray Transient + ALMA observations of the Frontier Fields*, Columbia University, New York, New York, USA
- 2015 Talk, *A New Type of X-ray Transient*, MAS Workshop 2015, Olmue, Chile
- 2015 Talk, *A New Type of X-ray Transient*, LSST-Chile Workshop 2015, La Serena, Chile
- 2015 Talk, *ALMA Observations of the First Three Frontier Fields*, IAU 29th General Assembly, Focus Meeting 22: "The Frontier Fields: Transforming our Understanding of Cluster and Galaxy Evolution", Honolulu, Hawaii, USA
- 2015 Talk, *Mapping Extended Fe K $\alpha$  Emission in Nearby AGN: Implications for Surveys and Future Observatories*, IAU 29th General Assembly, Focus Meeting 6: "X-ray Surveys of the Hot and Energetic Cosmos", Honolulu, Hawaii, USA
- 2015 Talk, *An X-ray Transient Goes Bump in the Night*, Future and Science of the Gemini Observatory Meeting, Toronto, Canada
- 2015 Invited Talk, *Observational Constraints on the Growth and Evolution of AGN*, VI Workshop Challenges of New Physics in Space, Campos do Jordão, SP, Brasil
- 2015 Poster, *NuSTAR Detection of Multiple Reflections in NGC 1068*, 225th American Astronomical Society Meeting, Seattle, WA, USA
- 2014 Invited Talk, *A view of Abell 2744 through mm-tinted glasses*, Yale Frontier Fields Workshop, New Haven, CT, USA
- 2014 Invited Talk, *Establishing the Role of Mergers in Black Hole Growth and Galaxy Evolution: X-ray Studies*, EMBIGGEN Anillo Meeting, Panimavida, Chile
- 2014 Talk, *Here, There, and Everywhere*, "Science Jamboree" Symposium, Pontificia Universidad Católica de Chile, Santiago, Chile
- 2014 Colloquium, *Reconciling IR Constraints on AGN Tori using X-rays*, Universidad Andres Bello/Universidad Diego Portales,

Santiago, Chile

- 2014 Talk, *Probing the Torus Structure of Nearby AGN*, AGN vs Star Formation, Durham, England
- 2014 Talk, *New Insights into the Obscuration of NGC 1068 (+ Circinus) and beyond?*, Southern Cross Meeting VII 2014: Powerful AGN and Their Host Galaxies Across Cosmic Time, Port Douglas, Australia
- 2014 Talk, *AGN, SNe, and High-z galaxies, Oh My!*, Ohio State-PUC Workshop, Ohio State University, Columbus, OH, USA
- 2014 Talk, *NGC 1068*, “NuSTAR Science Team” Meeting, Columbia University, New York City, NY, USA
- 2013 Invited Review, *High redshift galaxies*, Latin American Regional IAU Meeting, Florianopolis, Brazil
- 2013 Invited Talk, *A neat result for Circinus and NGC1068*, EMBIGGEN Anillo Meeting, Santa Cruz, Chile
- 2013 Talk, *Constraints on  $z > 1$  AGN from NIR-MOS Spectra (and ALMA)*, China-Chile Meeting, Vina del Mar, Chile
- 2013 Talk, *Probing (AGN Feedback through) the Rest-frame Optical Spectra Properties of  $z > 2$  AGN*, INCAI 2013 WORKSHOP on Exploring the Nature of the Evolving Universe III, Santiago Chile
- 2013 Talk, *Insights into Type II SNe*, “Oxford SN progenitor workshop”, Oxford University, Oxford, England
- 2012 Poster, *Insights into Type II SNe*, “PESSTO Science Team” Meeting, Institut d’Estudis Espacials de Catalunya (IEEC), Barcelona, Spain
- 2012 Invited Talks, *Asymmetries in Type II SNe and Hyper-LIRGs*, “Luminous Infrared Galaxies” Workshop, Instituto de Astrofísica de Andalucía (IAA-CSIC), Granada, Spain
- 2012 Invited Talk, *Insights into nearby II SNe*, “The Evolving Universe II’ in Washington” Conference, Catholic University of America, Washington, DC, USA
- 2012 Colloquium, *AGN Feedback*, Universidad de Concepción, Concepción, Chile
- 2012 Talk, *AGN, X-ray Binaries, and Supernovae*, “Science Jamboree” Symposium, Pontificia Universidad Católica de Chile, Santiago, Chile
- 2012 Poster, *Spectropolarimetry of Type II SN2010jl: Peering Into the Heart of a Monster*, International Astronomical Union Symposium 279: “The Deaths of Massive Stars: SNe and GRBs” in Nikko, Japan
- 2011 Invited Talk, *Obscured AGN Program*, “NuSTAR Science Team” Meeting, Caltech, Pasadena, CA, USA
- 2011 Poster, *Probing AGN at high redshift with ALM*, “Multiwavelength Views of the ISM at High Redshift” Meeting, ESO, Santiago, Chile
- 2011 Talk, *AGN Feedback*, “PUC-Maryland Connection” Workshop, University of Maryland, College Park, MD, USA
- 2011 Talk, *AGN, X-ray Binaries, and Supernovae*, “Science Jamboree” Symposium, Pontificia Universidad Católica de Chile, Santiago, Chile
- 2011 Invited Review Talks, *Overview of ALMA Capabilities and the Call for Early Science and Interferometry Basics and mm/submm Considerations*, “ALMA Community Day”, Pontificia Universidad Católica de Chile, Santiago, Chile
- 2011 Invited Review Talk, *The Observational Nature of AGN Feedback*, “Galaxy Formation in a Hierarchical Universe” Workshop, Pontificia Universidad Católica de Chile, Santiago, Chile
- 2011 Poster, *Finding Obscured AGN in the Deep Field Surveys*, SOCHIAS Meeting 2011, Universidad Andrés Bello, Santiago, Chile
- 2011 Poster, *Modeling the Morphology of SN1996cr from X-ray Lines at High Resolution*, 217th American Astronomical Society Meeting, Seattle, WA, USA
- 2010 Invited Talk, *Prospecting for a Population of Compact Objects in the Galactic Center*, “The Milky Way: from the south, in the south” Workshop, Universidad Andrés Bello, Santiago, Chile
- 2010 Poster, *Assessing Obscured Quasars at  $z \sim 2$* , “What Drives the Growth of Black Holes?” Workshop, Durham University, Durham, UK
- 2010 Poster, *Chandra High-Resolution Spectroscopy of SN 1996cr*, 11th High Energy Astrophysics Division Meeting, Kona, HI
- 2010 Invited Talk, *The Extreme(y) Late-Time Evolution of SN1996cr’s Progenitor*, SOCHIAS Meeting 2010, Universidad de Concepción, Concepción, Chile
- 2009 Colloquium, *Constraining the Evolution of SN1996cr’s Progenitor*, Space Science Institute, Boulder, CO, USA
- 2009 Colloquium, *Asymmetries in the High-Resolution X-ray Spectra of SN 1996cr*, Jet Propulsion Laboratories, Pasadena, CA, USA
- 2009 Poster, *Asymmetries in the High-Resolution X-ray Spectra of SN 1996cr*, “Rogerfest”, Pasadena, CA, USA
- 2009 Talk, *Chandra High-Resolution Spectroscopy of SN 1996cr*, Chandra Supernova Remnant Symposium, Boston, MA, USA
- 2009 Colloquium, *The Slow X-ray Evolution of SN1996cr*, Goddard Space Flight Center, Washington, DC, USA
- 2009 Colloquium, *A First Peek into the X-ray Shock Structure of the Nearby Type II SN1996cr*, University of Florida, Gainesville, FL, USA
- 2009 Colloquium, *Constraining the Evolution of SN1996cr’s Progenitor*, University of Sydney, Sydney, Australia
- 2009 Colloquium, *Constraining the Evolution of SN1996cr’s Progenitor*, Australia National Telescope Facility, Sydney, Australia
- 2009 Colloquium, *The AGN Content Of The Faint Radio Galaxy Population*, Australia National Telescope Facility, Sydney, Australia
- 2009 Colloquium, *Constraining the Evolution of SN1996cr’s Progenitor*, Universidad Andrés Bello, Santiago, Chile
- 2009 Colloquium, *Constraining the Evolution of SN1996cr’s Progenitor*, Pontificia Universidad Católica, Santiago, Chile
- 2009 Poster, *The AGN Content Of The Faint Radio Galaxy Population*, 213th American Astronomical Society Meeting, Long Beach, CA

- 2008 Talk, *The AGN Content Of The Faint Radio Galaxy Population*, EVLA Workshop, Socorro, NM, USA
- 2008 Poster, *Modeling The Evolution of SN1996cr's Progenitor*, Tri-State Conference, New York, NY, USA
- 2008 Colloquium, *Constraints on a Nearby Luminous Type II<sub>n</sub> Supernova in the Circinus Galaxy*, Bologna University, Bologna, Italy
- 2007 Colloquium, *SN 1996cr: Confirmation of a Luminous Type II<sub>n</sub> Supernova in the Circinus Galaxy*, Durham University, Durham, UK
- 2007 Colloquium, *Chandra Survey of the Galactic Center*, Bologna University, Bologna, Italy
- 2007 Poster, *SN 1996cr: Confirmation of a Luminous Type II<sub>n</sub> Supernova in the Circinus Galaxy*, "SUPERNOVA 1987A: 20 YEARS AFTER: Supernovae and Gamma-Ray Bursters" AIP Conference, Aspen, CO
- 2007 Talk, *Lost and Found: Another Missed Type II<sub>n</sub> SN, CG X-2*, 209th American Astronomical Society Meeting, Seattle, WA, USA
- 2006 Talk, *Lost and Found: Another Missed Type II<sub>n</sub> SN, CG X-2*, "Chandra Fellow Symposium", Harvard University, Boston, MA, USA
- 2006 Poster, *New Optical and X-ray Constraints on the Ultraluminous X-ray source Circinus Galaxy X-2: A Missed Local SN?*, 9th High Energy Astrophysics Division Meeting, San Francisco, CA, USA
- 2006 Colloquium, *Obscured AGN in the Chandra Deep Field Surveys*, Yale University, New Haven, CT, USA
- 2006 Poster, *The High Redshift Universe with Constellation-X*, 207th American Astronomical Society Meeting, Washington, DC, USA
- 2005 Talk, *Obscured AGN in the Chandra Deep Field Surveys*, "Chandra Fellow Symposium", Harvard University, Boston, MA, USA
- 2005 Talk, *Multi-Wavelength Constraints on AGN in the Chandra Deep Field Surveys*, "The Role of Wide and Deep Multi-Wavelength Surveys in Understanding Galaxy Evolution" Workshop at Ringberg Castle, Munich, Germany
- 2004 Talk, *An Update on the Chandra Deep Field Surveys*, "Chandra Fellow Symposium", Harvard University, Boston, MA, USA
- 2004 Poster, *The fraction of cooling flow clusters at  $z \sim 0.2 - 0.4$* , "35th COSPAR Scientific Assembly", Paris, France
- 2004 Talk, *AGN content in the Chandra Deep Field Surveys*, "35th COSPAR Scientific Assembly", Paris, France
- 2003 Talk, *A Long, Hard Look at the X-ray Background - The Chandra Deep Fields*, "Multiwavelength AGN Surveys, Guillermo Haro Conference", Cozumel, Mexico
- 2003 Invited Talk, *The Chandra Deep Fields and the Prevalance of Super-Massive Black Holes in the Universe*, The Tenth Marcel Grossmann Meeting, Rio de Janeiro, Brazil
- 2003 Poster, *Constraining the Nature of the X-ray Background through X-ray spectroscopy in the Chandra Deep Fields*, 201st American Astronomical Society Meeting, Seattle, WA, USA
- 2002 Colloquium, *X-rays from the Chandra Deep Fields*, Caltech, Pasadena, CA, USA
- 2002 Talk, *Searching for Diffuse Objects in the Chandra Deep Fields*, Chandra Deep Fields Workshop, Boston, MA
- 2002 Poster, *The X-ray/Radio Connection in the Chandra Deep Fields*, "X-ray Surveys in the Light of the New Observatories" Workshop in Santander, Spain
- 2002 Colloquium, *X-rays from the Chandra Deep Fields*, National Radio Astronomy Observatory, Charlottesville, VA, USA
- 2002 Invited Talk, *AGN source populations detected in the Chandra Deep Field North Survey*, "34th COSPAR Scientific Assembly, The Second World Space Congress", Houston, TX, USA
- 2002 Colloquium, *Overview of the Chandra Deep Fields*, Tokyo University, Tokyo, Japan
- 2002 Colloquium, *Overview of the Chandra Deep Fields*, Osaka University, Osaka, Japan
- 2002 Colloquium, *The X-ray/Radio Connection in the Chandra Deep Fields*, National Radio Astronomy Observatory, Charlottesville, VA, USA
- 2002 Colloquium, *The Chandra Deep Field-North Survey*, Carnegie Mellon University, Pittsburgh, PA, USA
- 2001 Poster, *Diffuse X-ray Emission Within the Chandra Deep Field North*, "Two Years of Science with Chandra" Symposium, Washington, DC, USA
- 2001 Poster, *Chandra Observations of Off-Nuclear Sources within Circinus*, 197th American Astronomical Society Meeting, San Diego, CA, USA
- 2000 Thesis Talk, *The Active Nuclei Content of the RASS BSC/NVSS sample*, 195th American Astronomical Society Meeting, Atlanta, GA, USA
- 1999 Poster, *Radio and Optical Identification of BSC X-ray Sources Using the NVSS*, "Imaging at Radio through Submillimeter Wavelengths" Meeting, Tucson, AZ, USA
- 1999 Poster, *A Study of the Brightest Radio Emitting X-ray Galaxies*, 193rd American Astronomical Society Meeting, Austin, TX, USA

## Professional Service

### Journal Referee/Editor

- 2002- ApJ, MNRAS, A&A, Science referee ( $\approx 1-2$  articles/yr)  
2016- Board of Reviewing Editors, Science Magazine ( $\approx 50-80$  articles/yr)

### Funding Proposal Referee

- 2024 ANID/ALMA-FUND (Chile)  
2022 ANID/GEMINI-FUND (Chile)  
2018,2024 ANID/FONDECYT (Chile)  
2015-2016 MINCYT/FONCYT (Argentina)  
2006 Chandra Budget Chair, Cycle 8 AGN Panel  
2024 NASA Hubble Postdoctoral Fellowship

### Observing Proposal Referee

- Jansky Very Large Array Time Allocation Committee —  
2013-2014 *Member*: High-z/Surveys Panel (twice per year)  
— ALMA Review Panels —  
2015 *Deputy Chair*: Cycle 3 High-z/Surveys Panel  
2016-2017 *Chair*: Cycle 4-5 High-z/Surveys Panel  
2015-2018 *Member*: Director Discretionary Time Committee  
2015-2018 *Chair*: Chilean Review Committee  
2021-2022 *Distributed Review Member*: Cycles 8,9 High-z/Surveys Panel  
— European Southern Observatory —  
2022-2024 *Distributed Review Member*: Periods 110,111,112,115  
— Gemini Observatory —  
2023-2024 *Distributed Review Member*: Fast Turnaround  
— APEX Chilean Time Allocation Committee —  
2011-2012 *Member* (twice per year)  
2013 *Chair* (twice per year)  
— Chilean National Time Allocation Committee —  
2010-2012 *Member*: Extragalactic Panel (twice per year)  
— Hubble Space Telescope Time Allocation Committee —  
2022 *Member*: Cycle 30 Massive Black Holes Panel  
— James Webb Space Telescope Time Allocation Committee —  
2023 *External Reviewer*: Cycle 2 Active Galactic Nuclei Panel  
2024 *External Reviewer*: Cycle 3 Massive Black Holes Panel  
2024 *External Reviewer*: Cycle 4 EC-Expert Galaxies and SMBH  
— Swift Time Allocation Committee —  
2008 *Member*: Cycle 4 AGN Panel  
2009 *Co-Chair*: Cycle 5 AGN Panel  
2010 *Deputy Chair*: Cycle 7 AGN Panel  
— NuSTAR Time Allocation Committee —  
2015 *Member*: Cycle 1 AGN Panel  
— Chandra Time Allocation Committee —  
2004 *Member*: Cycle 6 AGN Panel  
2006 *Deputy Chair*: Cycle 8 AGN Panel  
2021 *Deputy Chair*: Cycle 23 AGN Panel

### **Observatory/Agency Advisory Committees**

- 2020-2025 *Member*, Survey Cadence Optimization Committee (SCOC), Rubin Observatory/LSST  
2018-2024 *Member*, Science Advisory Committee (SAC), Rubin Observatory/LSST  
2020-2021 *Member*, Rubin-Euclid Derived Data Products Working Group (DDP-WG), Rubin Observatory/LSST  
2018-2021 *Member*, Comité Científico Estratégico, Chilean National Laboratory for High Performance Computing  
2018-2020 *Member*, Advisory Board, Chilean National Time Allocation Committee (CNTAC)  
2015-2017 *Chair*, Users Committee, Gemini Observatory  
2014-2015 *Member*, Users Committee, Gemini Observatory,  
2011-2014 *Member*, Users Committee, Chandra X-ray Observatory,

### **Observatory/Instrument/Follow-up/Software Team Memberships**

- 2022- *co-I, Member*, X-ray Transient and AGN Science Working Groups, AXIS  
2020-2022 *Member*, X-ray Transient and AGN Science Working Groups, Gamow Explorer  
2020- *Member*, Black-Hole Mapper Science Working Group, Sloan Digital Sky Survey V  
2020- *Member*, Galaxies, Rubin Observatory/LSST  
2020- *Member*, Transients and Variable Stars Science Collaboration, Rubin Observatory/LSST  
2020- *Member*, AGN, GW, TDE, SNe Science Working Groups, SOXS Instrument Team  
2022- *Member*, Science Team, 4MOST  
2019- *PI*, Chilean AGN/Galaxy Extragalactic Survey (ChANGES), 4MOST  
2018- *Member*, EM counterparts of gravitational wave sources at the Very Large Telescope (ENGRAVE) Team  
2018- *Member*, extended-Public ESO Spectroscopic Survey of Transient Objects (ePESSTO) Team  
2018- *Member*, Science Working Group, ALeRCE Broker  
2018- *Member*, Dark Energy Science Collaboration, Rubin Observatory/LSST  
2017- *Member*, AGN Science Collaboration (Follow-up co-Chair, Membership Committee), Rubin Observatory/LSST  
2014- *Member*, AGN and Transient Science Working Group, Gemini-SCORPIO Instrument Team  
2013-2018 *Member*, Public ESO Spectroscopic Survey of Transient Objects (PESSTO) Team  
2010- *Member*, AGN (co-chair), Protocluster, and High-z Working Groups, VLT-MOONS Instrument Team  
2009-2019 *Member*, Obscured AGN, Extragalactic Surveys, and Galactic Surveys Groups, NuSTAR X-ray Observatory  
2011-2012 *Member*, Surveys and High-z AGN Science Working Groups, Athena X-ray Observatory  
2010-2011 *Co-Chair*, Multi-wavelength Survey Science Working Group, VLT-NIRMOS Instrument,  
2010-2012 *Member*, Surveys and Galactic Center Science Working Groups, GMT-NIRMOS Instrument,  
2005-2011 *Member*, Surveys and High-z AGN Science Working Groups, International X-ray Observatory,

### **Conference/Meeting/Workshop Science/Local Organizing Committees**

- 2023-2024 *Member*, SOC, “The Ecosystem of Gas and Dust in Galaxies near and far”, Chiang Mai, Thailand  
2023-2024 *Member*, SOC, “COSPAR-2024-E1.10: Extreme Accretion events in SMBHs”, Busan, South Korea  
2024 *Member*, SOC, “Rubin Observatory Community Workshop (RCW) 2024”, Menlo Park, CA, USA  
2024 *Member*, SOC/LOC, “LSST@LATAM”, La Serena, Chile  
2023 *Member*, SOC, “Rubin Observatory Project and Community Workshop (PCW) 2023”, Tucson, CA, USA  
2022-2023 *Member*, SOC, “The Restless Nature of AGN”, Napoli, Italy  
2021-2022 *Member*, SOC, “Joint Observatories Kavli Science Forum in Chile”, ESO-Vitacura, Chile  
2018-2019 *Member*, SOC, “X-ray Astronomy 2019”, Bologna, Italy  
2017-2019 *Member*, SOC, “IAU Symposium: Uncovering early galaxy evolution in the ALMA and JWST era”,  
Viana do Castelo, Portugal  
2018-2019 *Member*, SOC, “LSST-Chile”, La Serena, Chile  
2017-2018 *Member*, SOC, “BASS Workshop 2018”, Santiago, Chile  
2017-2018 *Co-organizer*, SOC/LOC, “Torus Workshop 2018”, Puerto Varas, Chile  
2016-2017 *Member*, SOC, “Distant Galaxies from the Far South”, Bariloche, Argentina  
2015-2016 *Member*, SOC, “Half a Decade of ALMA: Cosmic Dawns Transformed”, Indian Wells, CA, USA  
2015-2016 *Member*, SOC, “X-ray View of Black Hole Activity in the Local Universe”, Zurich, Switzerland  
2015 *Co-organizer*, SOC/LOC, Columbia-PUC Workshop, Columbia University, New York, New York, USA  
2014-2015 *Organizer*, SOC/LOC, Columbia-PUC Workshop, PUC-Chile, Santiago, Chile  
2014-2015 *Member*, SOC, “IAU-FM6: Cosmological X-ray Surveys: probing the hot and energetic Universe”,  
Honolulu, HI, USA



- 2014-2015 *Member*, SOC, “Black Hole and Galaxy Evolution Workshop”, Puerto Varas, Chile  
2013-2014 *Member*, SOC, “Powerful AGN and Their Host Galaxies Across Cosmic Time”, Port Douglas, Australia  
2013 *Organizer*, SOC/LOC, ALMA Community Day, PUC-Chile, Santiago, Chile  
2010-2011 *Organizer*, SOC/LOC, ALMA Community Day, PUC-Chile, Santiago, Chile  
2010-2011 *Member*, SOC, “14th COSPAR/IAU Capacity Building Workshop on Data Analysis of the XMM-Newton, Chandra and Suzaku X-ray Missions”, San Juan, Argentina

**Professional Societies**

- 1999- *Member*, American Astronomical Society (AAS)  
2005- *Member*, High-Energy Astrophysics Division (HEAD-AAS)  
2010- *Member*, Society of Chilean Astronomy (SOCHIAS)

# University Service

## Examination Committees

- *Reader (\*Advisor)*, Undergraduate Thesis Examination Committee for —
- 2024 Alan Contreras, “Predicción de Redshifts Fotométricos Usando Imágenes Multi Banda Y Multi Resolución”, Universidad de Chile
- 2023 Mila Winter, “Black hole mergers in the centers of galaxies: the role of stellar fly-bys”, PUC-Chile
- 2023 Tomas Parada, “Espectros teóricos de supernovas”, PUC-Chile
- 2023 Gabriela Monasterio, “Spectroscopic Characterization of baryonic Structures in Fornax”, PUC-Chile
- 2022 Devika Mukhi Nilo\*, “Measuring spectroscopic redshifts for CTA candidate TeV blazars”, PUC-Chile
- 2022 Valentina Garrido, “Búsqueda y Caracterización de Variables delta Scuti en DECaPS East”, PUC-Chile
- 2022 Pablo Arriagada, “The role of molecular gas in the activation of AGNs hosted by major galaxy mergers”, PUC-Chile
- 2022 Barbara Camila Pozo, “Interconnecting Multi-Band RR Lyrae Light Curves: The Visual Regime”, PUC-Chile
- 2022 Valentín Nicolás Peña, “Effect from stellar flybys on the merger rates of black holes in the centers of galaxies”, PUC-Chile
- 2022 Miguel Parra\*, “Morphological Preferences of Local X-ray Selected AGN”, PUC-Chile
- 2021 Javier Correa\*, “Characterization of Host Galaxies for ZTF Transients”, PUC-Chile
- 2021 Fabian Soto, “Extreme Mass Ratio Inspirals in the Center of Galaxies: Predictions for LISA”, PUC-Chile
- 2021 Dante Pinto, “Use of Complex Event Processing with Astronomical Data Streams”, PUC-Chile
- 2021 Joaquin Silva, “Aplicación del Código TARDIS para Simulación de Espectro de Supernovas Super-Luminosas sin Hidrogeno”, PUC-Chile
- 2020 Erick Cardenas, “A New Look at Difference Imaging Techniques”, PUC-Chile
- 2020 Ariel Gonzalez Carrasco\*, “Desempeño de Estrategias de Observación en el LSST: AGNs a  $z > 5,6$  desde LF Bolométrica y Variabilidad según Pares de Visitas”, PUC-Chile
- 2019 Loreto Osorio, “Primordial Black Holes and the Large-Scale Structure of the Universe”, PUC-Chile,
- 2018 Dusan Tubin, “Stellar populations and kinematics of the Gas in the dual AGN Mrk 739”, PUC-Chile,
- 2018 Charlotte Simmonds Wagemann\*, “XZ: Deriving Redshifts From X-Ray Spectra of Obscured AGN”, PUC-Chile
- 2018 Carolina Andonie, “The first IR/X-ray model for the Circinus galaxy - testing AGN unification”, PUC-Chile
- 2017 Fernando Peñaloza Garrido, “Gas Molecular en Galaxias Activas del Universo Local”, PUC-Chile
- 2014 Camilo Fontecilla, “Simulación en una Dimensión de Discos de Acreción en un Sistema Binario de Agujeros Negros Supermasivos”, PUC-Chile
- 2013 Josefina Michea, “Supernova rate in Red-Sequence Cluster Survey 2 Luminous Red Galaxies”, PUC-Chile
- 2013 Sergio Contreras, “Halo Occupation Distributions in Models of Galaxy Formation”, PUC-Chile
- 2012 Astrid San Martin Jimenez\*, “AGN en el Wide-Field Infrared Survey Explorer”, PUC-Chile
- 2012 Pedro Salas\*, “SN 2007bg: the complex circumstellar medium”, PUC-Chile
- 2011 Felipe Garrido, “Physical models for AGN feedback”, PUC-Chile
- 2011 Patricio Gallardo, “Sidelobes and spillover in ACT”, PUC-Chile
- 2011 Luis Valdes Perez, “Formación de Nubes Moleculares en la galaxia Wolf-Lundmark-Molotte”, PUC-Chile
- 2011 Cristobal Meunier Cornejo\*, “Modeling the prolific emission from the CSM-interacting SN1996cr”, PUC-Chile
- 2010 Alejandra Rojas, “Fuentes de alta energía hacia el bulbo de la Vía Láctea”, PUC-Chile
- *Reader (\*Advisor)*, Master Thesis Examination Committee for —
- 2022 Goran Doll\*, “Host galaxies of local hard X-ray selected AGN”, PUC-Chile
- 2021 Gonzalo Prieto\*, “Intersection of LAEs & LBGs in Abell370, Abell2744 and MACS0416”, PUC-Chile
- 2020 Felipe Zepeda, “Fast Radio Bursts: Constraining possible astrophysical scenarios from a particle acceleration model”, PUC-Chile
- 2020 Carolina Andonie\*, “Characterizing the Fe K $\alpha$  line variability in a large sample of AGN”, PUC-Chile
- 2019 Diego Farías, “Type II Supernovae as Distance Indicators”, PUC-Chile
- 2018 Rodrigo Carvajal\*, “ALMA Stacking of Lyman-Break Galaxies in Abell 2744, Abell 370, AbellS1063, MACSJ0416.1-2403 and MACSJ1149.5+2223”, PUC-Chile
- 2018 Nicolas Meza Retamal, “The extraplanar type II SN ASASSN-14jb in galaxy ESO 467-G051”, PUC-Chile
- 2018 Jonathan Quirola Vasquez\*, “The Exceptional X-ray Evolution of SN1996cr in High Resolution”, PUC-Chile
- 2016 Cristóbal Mackenzie Kiessler, “Clustering Based Feature Learning On Variable Stars”, PUC-Chile
- 2015 Diego Calderón, “Thin-shell Instabilities and Clump Formation due to Colliding Stellar Winds in the Galactic

- Centre”, PUC-Chile
- 2014 Pedro Salas, “A two element radio interferometer for education”, PUC-Chile
- 2012 Cristobal Sifon, “Scaling relations in galaxy clusters detected using the Sunyaev Zel’dovich effect”, PUC-Chile
- 2011 Ignacio Araya, “High Energy Particle Interaction Effects on Galaxies”, PUC-Chile
- 2011 Heather Andrews, “Confirmations de absorbentes in la linea de vision a cuasares”, PUC-Chile
- *Reader (\*Advisor)*, PhD Thesis Examination Committee for —
- 2023 Jonathan Quirola Vasquez\*, “Characterization of Extragalactic Fast X-Ray Transient from X-Ray Archival Searches”, PUC-Chile
- 2023 Andrés Scherer Espinoza\*, “Very-High-Energy Gamma-Rays from the Galactic Center Generated by Cosmic Rays”, PUC-Chile
- 2017 Felipe Garrido Goicovic, “Infalling clouds onto supermassive black hole binaries”, PUC-Chile
- 2013-2015 Alejandra Muñoz Arancibia, “The Proxy+Matching Technique: Modeling SMGs and LAEs”, PUC-Chile
- 2011-2014 Regis Cartier, “Characterizing AGN Variability”, Universidad de Chile
- *Member (\*Advisor)*, PhD Thesis Monitoring Committee for —
- 2024- Luis Rodriguez, “Magnetar - Black Hole Binary as Explanation for Actively Repeaters Fast Radio Bursts”, PUC-Chile
- 2023- Anastasia Shlentsova\*, “Lighting up a new Standard Candle: calibration of AGNs”, PUC-Chile
- 2023- Benedict Luke Rouse\*, “Probing AGN dynamics through a natural language processor lens”, PUC-Chile
- 2022- Laura Natalia Martinez\*, “Selection and Characterization of High-redshift AGN in the Southern Hemisphere”, PUC-Chile
- 2022- Keri Heuer, “Investigating Chaotic and Variable Accretion Flows in Changing-Look Active Galactic Nuclei”, Drexel University
- 2022- Macarena Droguett, “Optical Variability of Hard X-ray Selected AGN”, PUC-Chile
- 2022- Priscilla Behar\*, “Optical Variability of Hard X-ray Selected AGN”, PUC-Chile
- 2022- Cristóbal Moya, “Properties of ionizing agents during the epoch of reionization”, PUC-Chile
- 2022- Ernesto Camacho\*, “Characterizing the Variability and Multi-wavelength Properties of Intermediate-mass Black Holes”, PUC-Chile
- 2020- Cristian Vargas, “Characterizing Resolved Radio Sources in the Atacama Cosmology Telescope”, PUC-Chile
- 2020- Andrés Scherer\*, “Gamma-ray Diffusion in the Galactic Center”, PUC-Chile
- 2018- Jonathan Alexander Quirola Vasquez\*, “Extragalactic Fast X-ray Transients”, PUC-Chile
- *Member (\*Advisor)*, Magister Thesis Monitoring Committee for —
- 2023- Miguel Parra Tello\*, “Morphology and properties of EELRs in Hard X-ray selected AGN”, PUC-Chile
- 2023- Javier Coreea Orellana\*, “”, PUC-Chile
- 2023- Marco Troncoso, “”, PUC-Chile

### **Institutional Committees**

- 2024 *Coordinator*, Qualifying Exam Committee (set policies, construct and grade exams), IA-PUC-Chile
- 2024- *Member*, Comisión de Incorporación de los Académicos de la Facultad de Física, IA-PUC-Chile
- 2022-2023 *Director*, Graduate Program (set policies and curriculum; manage program and students), IA-PUC-Chile
- 2022-2023 *Member*, Comité de Calificación (periodic evaluation of faculty member performance, sabbatical requests, ...), Física-PUC-Chile
- 2020-2022 *Coordinator*, Comité de Admisión Postgrado (organized advertisement, submissions, evaluations, interviews, and correspondence,...), IA-PUC-Chile
- 2019-2022 *Member*, Comité de Admisión Postgrado (evaluate applications), Física-PUC-Chile
- 2018-2023 *Member*, Graduate Student Advisory Committee (set policies; oversee thesis topic evaluations, progress, examinations, funding), IA-PUC-Chile
- 2018-2022 *Director*, Computation (set policies, oversee team and maintenance of computing infrastructure), IA-PUC-Chile
- 2011- *Member*, Postdoctoral Fellow Advisory Committee (set policies, organize and carry out application and evaluation process), IA-PUC-Chile
- 2012- *co-Leader*, Daily 30-min astro-ph discussions, IA-PUC-Chile
- 2017-2020 *Member*, Consejo de Facultad (oversee promotion+evaluation procedures, solicitations, ...), Física-PUC-Chile
- 2015 *Coordinator*, Qualifying Exam Committee (set policies, construct and grade exams), IA-PUC-Chile
- 2014 *Member*, Qualifying Exam Committee (construct and grade exams, evaluate and set policies), IA-PUC-Chile
- 2010-2016 *Coordinator*, Postdoctoral Fellow Program (set policies, solicit applications, correspond with candidate and incoming fellows, organize selection committee and applications to FONDECYT, write funding proposals, ...), IA-PUC-Chile
- 2010 *Coordinator*, Department Seminars and Colloquia, DAA-PUC-Chile

# Publications

## Statistical Summary

Refereed papers (NASA/ADS): **447+**

Refereed papers with Bauer as first author (NASA/ADS, denoted by #-Bauer): **17**

Refereed papers with Bauer PUC group member as first author (NASA/ADS, denoted by \$-name): **49**

Total refereed citations: **36,204**

*h*-index: **91**

Non-refereed papers (NASA/ADS): **160+**

Transient Reports (NASA/ADS): **1375+**

## Refereed Publications

448 ~5 additional papers submitted, ~10 more in preparation.

- 447 “ALMA Lensing Cluster Survey: Dust mass measurements as a function of redshift, stellar-mass and star formation rate, from  $z=1$  to  $z=5$ ”, Jolly, J.-B., Knudsen, K., Laporte, N., Guerrero, A., Fujimoto, S., Kohno, K., Kokorev, V., Lagos, C. del P., Schirmer, T.-A., Bauer, F., Dessauge-Zavadsky, M., Espada, D., Hatsukade, B., Koekemoer, A. M., Richard, J., Sun, F., Wu, J. F., 2024, *Astronomy and Astrophysics*, submitted; 0 cites;  
<https://doi.org/10.48550/arXiv.2411.11212>
- 446 “AT 2021hdr: A candidate tidal disruption of a gas cloud by a binary super massive black hole system”, Hernández-García, L., Muñoz-Arancibia, A. M., Lira, P., Bruni, G., Cuadra, J., Arévalo, P., Sánchez-Sáez, P., Bernal, S., Bauer, F. E., Catelan, M., Panessa, F., Pávez-Herrera, M., Ricci, C., Reyes-Jainaga, I., Ailawadhi, B., Chavushyan, V., Dastidar, R., Deconto-Machado, A., Förster, F., Gangopadhyay, A., García-Pérez, A., Márquez, I., Masegosa, J., Misra, K., Patiño-Alvarez, V. M., Puig-Subirà, M., Rodi, J., Singh, M., 2024, *Nature Astronomy*, submitted; 0 cites;  
<https://doi.org/10.48550/arXiv.2411.08949>
- 445 “PICZL: Image-based Photometric Redshifts for AGN”, Roster, W., Salvato, M., Krippendorf, S., Saxena, A., Shirley, R., Buchner, J., Wolf, J., Dwelly, T., Bauer, F. E., Aird, J., Ricci, C., Assef, R. J., Anderson, S. F., Liu, X., Merloni, A., Weller, J., Nandra, K., 2024, *Astronomy and Astrophysics*, submitted; 0 cites;  
<https://doi.org/10.48550/arXiv.2411.07305>
- 444 “Tuning into spatial frequency space: Satellite and space debris detection in the ZTF alert stream”, \$-Carvajal, J. P., Bauer, F. E., Reyes-Jainaga, I., Förster, F., Muñoz Arancibia, A. M., Catelan, M., Sánchez-Sáez, P., Ricci, C., Bayo, A., 2024, *Astronomy and Astrophysics*, submitted; 0 cites;  
<https://doi.org/10.48550/arXiv.2411.03258>
- 443 “BASS: XLIII. Optical, UV, and X-ray emission properties of unobscured Swift/BAT active galactic nuclei”, Gupta, K. K., Ricci, C., Temple, M. J., Tortosa, A., Koss, M. J., Assef, R. J., Bauer, F. E., Mushotzky, R., Ricci, F., Ueda, Y., Rojas, A. F., Trakhtenbrot, B., Chang, C.-S., Oh, K., Li, R., Kawamuro, T., Diaz, Y., Powell, M. C., Stern, D., Megan Urry, C., Harrison, F., Cenke, B., 2024, *Astronomy and Astrophysics*, 691, A203; 2 cites;  
<https://doi.org/10.1051/0004-6361/202450567>
- 442 “Dust-Obscured Galaxies in the XMM-SERVS Fields: Selection, Multiwavelength Characterization, and Physical Nature”, Yu, Z., Brandt, W. N., Zou, F., Zhu, Z., Bauer, F. E., Cristello, N., Luo, B., Ni, Q., Vito, F., Xue, Y., 2024, *The Astrophysical Journal*, accepted; 1 cites;  
<https://doi.org/10.48550/arXiv.2410.18190>
- 441 “New JWST redshifts for the host galaxies of CDF-S XT1 and XT2: understanding their nature”, \$-Quirola-Vásquez, J., Bauer, F. E., Jonker, P. G., Levan, A., Brandt, W. N., Ravasio, M., Eppachen, D., Xue, Y. Q., Zheng, X. C., 2024, *Astronomy and Astrophysics*, submitted; 1 cites;  
<https://doi.org/10.48550/arXiv.2410.10015>
- 440 “The NuSTAR Local AGN  $N_{\text{H}}$  Distribution Survey (NuLANDS) I: Towards a Truly Representative Column Density Distribution in the Local Universe”, Boorman, P. G., Gandhi, P., Buchner, J., Stern, D., Ricci, C., Baloković, M., Asmus, D., Harrison, F. A., Svoboda, J., Greenwell, C., et al., 2024, *The Astrophysical Journal*, accepted; 0 cites;  
<https://doi.org/10.48550/arXiv.2410.07339>
- 439 “Rare Occasions: Tidal Disruption Events Rarely Power the AGNs Observed in Dwarf Galaxies”, Tan, J., Yang, G., Walsh, J. L., Brandt, W. N., Luo, B., Bauer, F. E., Chen, C.-T., Sun, M., Xue, Y., 2024, *The Astrophysical Journal*, accepted; 0 cites;  
<https://doi.org/10.48550/arXiv.2410.02484>
- 438 “High-quality Extragalactic Legacy-field Monitoring (HELM) with DECAM: Project Overview and First Data Release”, Zhuang,

- M.-Y., Yang, Q., Shen, Y., Adamów, M., Friedel, D. N., Gruendl, R. A., Stone, Z., Li, J., Liu, X., Martini, P., et al., 2024, *The Astrophysical Journal Supplement Series*, 274, 42; 1 cites;  
<https://doi.org/10.3847/1538-4365/ad7d01>
- 437 “Joint ALMA/X-ray monitoring of the radio-quiet type 1 active galactic nucleus IC 4329A”, Shablovinskaya, E., Ricci, C., Chang, C.-S., Tortosa, A., del Palacio, S., Kawamuro, T., Aalto, S., Arzoumanian, Z., Balokovic, M., Bauer, F. E., Gendreau, K. C., Ho, L. C., Kakkad, D., Kara, E., Koss, M. J., Liu, T., Loewenstein, M., Mushotzky, R., Paltani, S., Privon, G. C., Smith, K., Tombesi, F., Trakhtenbrot, B., 2024, *Astronomy and Astrophysics*, 690, A232; 2 cites;  
<https://doi.org/10.1051/0004-6361/202450133>
- 436 “Investigating the off-axis GRB afterglow scenario for extragalactic fast X-ray transients”, Wichern, H. C. I., Ravasio, M. E., Jonker, P. G., Quirola-Vásquez, J. A., Levan, A. J., Bauer, F. E., Kann, D. A., 2024, *Astronomy and Astrophysics*, 690, A101; 4 cites;  
<https://doi.org/10.1051/0004-6361/202450116>
- 435 “The Einstein Probe transient EP240414a: Linking Fast X-ray Transients, Gamma-ray Bursts and Luminous Fast Blue Optical Transients”, van Dalen, J. N. D., Levan, A. J., Jonker, P. G., Malesani, D. B., Izzo, L., Sarin, N., Quirola-Vásquez, J., Mata Sánchez, D., de Ugarte Postigo, A., van Hoof, A. P. C., et al., 2024, *Astronomy and Astrophysics*, accepted; 2 cites;  
<https://doi.org/10.48550/arXiv.2409.19056>
- 434 “BASS XLI: the correlation between Mid-infrared emission lines and Active Galactic Nuclei emission”, Bierschenk, M., Ricci, C., Temple, M. J., Satyapal, S., Cann, J., Xie, Y., Diaz, Y., Ichikawa, K., Koss, M. J., Bauer, F. E., Rojas, A., Kakkad, D., Tortosa, A., Ricci, F., Mushotzky, R., Kawamuro, T., Gupta, K. K., Trakhtenbrot, B., Chang, C. S., Riffel, R., Oh, K., Harrison, F., Powell, M., Stern, D., Urry, C. M., 2024, *The Astrophysical Journal*, accepted; 1 cites;  
<https://doi.org/10.48550/arXiv.2409.17334>
- 433 “Constraining Quasar Feedback from Analysis of the Hydrostatic Equilibrium of the Molecular Gas in Their Host Galaxies”, Fei, Q., Wang, R., Molina, J., Ho, L. C., Shanguan, J., Bauer, F. E., Treister, E., 2024, *The Astrophysical Journal*, accepted; 0 cites;  
<https://doi.org/10.48550/arXiv.2409.15611>
- 432 “Redshifts of candidate host galaxies of four fast X-ray transients using VLT/MUSE”, Inkenhaag, A., Jonker, P. G., Levan, A. J., Quirola-Vásquez, J., Bauer, F. E., Eppachen, D., 2024, *Astronomy and Astrophysics*, 689, A343; 1 cites;  
<https://doi.org/10.1051/0004-6361/202450249>
- 431 “The SDSS-V Black Hole Mapper Reverberation Mapping Project: Multi-Line Dynamical Modeling of a Highly Variable Active Galactic Nucleus with Decade-long Light Curves”, Stone, Z., Shen, Y., Anderson, S. F., Bauer, F., Brandt, W. N., Chakraborty, P., Davis, M. C., Fries, L. B., Grier, C. J., Hall, P. B., Koekemoer, A. M., Martínez-Aldama, M. L., Long, K., Morrison, S., Ricci, C., Schneider, D. P., Temple, M. J., Trump, J. R., 2024, *The Astrophysical Journal*, accepted; 0 cites;  
<https://doi.org/10.48550/arXiv.2408.04789>
- 430 “Prospects for Time-Domain and Multi-Messenger Science with AXIS”, Arcodia, R., Bauer, F. E., Cenko, S. B., Dage, K. C., Haggard, D., Ho, W. C. G., Kara, E., Koss, M., Liu, T., Mallick, L., Negro, M., Pradhan, P., Quirola-Vásquez, J., Reynolds, M. T., Ricci, C., Rothschild, R. E., Sridhar, N., Troja, E., Yao, Y., 2024, *Universe*, 10, 316; 4 cites;  
<https://doi.org/10.3390/universe10080316>
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