

George C. Privon

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Current Position

Assistant Scientist, North American ALMA Science Center, National Radio Astronomy Observatory, Charlottesville, VA, USA.

Education

- 2014 PhD in Astronomy, University of Virginia – “The Dynamics and Cold Gas Content of Luminous Infrared Galaxy Mergers in the Local Universe”.
Advisor: Aaron Evans
- 2009 MS in Astronomy, University of Virginia
- 2009 MS in Imaging Science, Rochester Institute of Technology – “Modeling the Infrared Emission from Cygnus A”. Advisor: Stefi Baum
- 2006 BS in Physics with Honors (Minors: Astronomy, Mathematics), Rochester Institute of Technology

Positions Held

- 2020–present *Assistant Scientist*, North American ALMA Science Center, National Radio Astronomy Observatory, Charlottesville, VA, USA.
- 2017–2020 *Prize Postdoctoral Fellow*, Department of Astronomy, University of Florida, Gainesville, FL, USA.
- 2014–2017 *FONDECYT Postdoctoral Fellow*, Instituto de Astrofísica, Pontificia Universidad Católica de Chile, Santiago and Departamento de Astronomía, Universidad de Concepción, Concepción, Chile.
- 2014 *Postdoctoral Research Fellow*, Departamento de Astronomía, Universidad de Concepción, Concepción, Chile.
- 2010–2014 *Graduate Research Assistant*, Department of Astronomy, University of Virginia, Charlottesville, VA, USA.
- 2013 *Visiting Graduate Student Research Fellow*, Infrared Processing and Analysis Center, California Institute of Technology, Pasadena, CA, USA.
- 2007–2010 *Graduate Researcher*, Department of Astronomy, University of Virginia, Charlottesville, VA, USA.
- 2007 *Summer Student*, Netherlands Institute for Radio Astronomy (ASTRON), Dwingeloo, Netherlands.
- 2006–2007 *Graduate Research Assistant*, Astrophysics Group / Center for Imaging Science, Rochester Institute of Technology.

2005–2006 *Undergraduate Research Assistant*, Astrophysics Group / Physics Department, Rochester Institute of Technology.

Grants, Honors, and Awards

2022 James Webb Space Telescope General Observer Cycle 1 Proposal. \$131,000.
 2021 NuSTAR Cycle 7 program, awarded Priority B. \$90,282.
 2020 NuSTAR Cycle 6 program, awarded Priority B. \$77,844.
 2019 ALMA Ambassador Fellowship, North American ALMA Science Center. \$10,000.
 2018 NuSTAR Cycle 4 program, awarded Priority B. \$56,597
 2017 NuSTAR Cycle 3 program, awarded Priority A. \$56,629
 2015 International Astronomical Union General Assembly Grant, IAU XXIX, \$1100
 2014–2017 FONDECYT Postdoctoral Fellowship (taken at the Pontificia Universidad Católica de Chile and the Universidad de Concepción), Comisión Nacional de Investigación Científica y Tecnológica, Chile. Approximately \$130,000 at the time of award.
 2014 International Travel Grant, American Astronomical Society. \$1100
 2013 Robert J. Huskey Travel Fellowship, University of Virginia Graduate School of Arts and Sciences. \$250
 2013 Visiting Graduate Student Research Fellowship, Infrared Processing and Analysis Center, California Institute of Technology, Pasadena, CA
 2012 Herschel Space Telescope–Open Time 2, Priority 1 Proposal (Principal Investigator): “Measuring the Far-Infrared SED of Cygnus A”, \$21,200
 2012 Robert J. Huskey Graduate Student Research Exhibition, 3rd place Oral Presentation
 2011 Elected to membership in the Raven Society, the oldest and most prestigious honorary society at the University of Virginia.
 2000 Eagle Scout Rank–Boy Scouts of America

Publications

Journal articles (as first or second author)

16 “Search for high-energy neutrino emission from hard X-ray AGN with IceCube”
 Goswami, S., **Privon, G. C.**, Santander, M., IceCube Collaboration. 2021, JInst, 16C9013G. [arXiv:2107.08366](https://arxiv.org/abs/2107.08366)

15 “A hard X-ray view of Luminous and Ultra-luminous Infrared Galaxies in GOALS: I – AGN obscuration along the merger sequence”
 C. Ricci, **G. C. Privon**, R. W. Pfeifle, L. Armus, K. Iwasawa, N. Torres-Albá, S. Satyapal, F. E. Bauer, E. Treister, L. C. Ho, S. Aalto, P. Arevalo, L. Barcos-Muñoz, V. Charmandaris, T. Díaz-Santos, A. S. Evans, T. Gao, H. Inami, M. J. Koss, G. Lansbury, S. T. Linden, A. Medling, C. Romero-Cañizales, D. B. Sanders, Y. Song, D. Stern, V. U. Y. Ueda, S. Yamada. 2021, MNRAS, 506, 5935. [arXiv:2107.10864](https://arxiv.org/abs/2107.10864)

14 “A Hard X-ray Test of HCN Enhancements as a Tracer of Embedded Black Hole Growth”

- G. C. Privon**, C. Ricci, S. Aalto, S. Viti, L. Armus, T. Díaz-Santos, E. González-Alfonso, K. Iwasawa, D. L. Jeff, E. Treister, F. Bauer, A. S. Evans, P. Garg, R. Herrero-Illana, J. M. Mazzarella, K. Larson, L. Blecha, L. Barcos-Muñoz, V. Charmandaris, S. Stierwalt, M. A. Pérez-Torres. 2020, ApJ, 893, 149. [arXiv:2004.02884](#)
- 13 “How to Fuel an AGN: Mapping Circumnuclear Gas in NGC 6240 with ALMA”
Anne Medling, **George C. Privon**, Loreto Barcos-Muñoz, Ezequiel Treister, Claudia Cicone, Hugo Messias, Nick Scoville, Vivian U, Lee Armus, Franz E. Bauer, Chin-Shin Chang, Julia M. Comerford, Aaron S. Evans, Francisco Müller-Sánchez, and Kartik Sheth. 2019, ApJL, 885, L21. [arXiv:1910.12967](#)
- 12 “The Molecular Gas and Dust Properties of Galaxies in the Great Observatories All-sky LIRG Survey”
R. Herrero-Illana, **G. C. Privon**, A. S. Evans, T. Díaz-Santos, M. Á. Pérez-Torres, V. U, A. Alberdi, K. Iwasawa, L. Armus, S. Aalto, J. Mazzarella, J. Chu, D. B. Sanders, L. Barcos-Muñoz, V. Charmandaris, S. T. Linden, I. Yoon, D. T. Frayer, H. Inami, D.-C. Kim, H. J. Borish, J. Conway, E. J. Murphy, Y. Song, S. Stierwalt, J. Surace. 2019, A&A, 628A, 71H. [arXiv:1907.03854](#)
- 11 “On the Interpretation of Far-infrared Spectral Energy Distributions. I: The 850 μm Molecular Mass Estimator”
G. C. Privon, D. Narayanan, R. Davé. 2018, ApJ, 867, 2. [arXiv:1805.03649](#)
- 10 “Modeling the Baryon Cycle in Dwarf Galaxies: The Case of NGC 4490 & NGC 4485”
Sarah Pearson, **George C. Privon**, Gurtina Besla, Mary E. Putman, David Martinez-Delgado, Kathryn V. Johnston, R. Jay Gabany, David R. Patton, Nitya Kallivayalil. 2018, MNRAS, 480, 3069. [arXiv:1807.03791](#)
- 9 “Recovering the Physical Properties of Molecular Gas in Galaxies from CO SLED Modeling”
J. Kamenetzky, **G. C. Privon**, and D. Narayanan. 2018, ApJ, 859, 9. [arXiv:1083.07084](#)
- 8 “Optical, Near-IR, and Sub-mm IFU Observations of the Nearby Dual AGN Mrk 463”
Ezequiel Treister, **George C. Privon**, Lia F. Sartori, Neil Nagar, Franz E. Bauer, Kevin Schawinski, Hugo Messias, Claudio Ricci, Vivian U, Caitlin Casey, Julie Comerford, Francisco Müller-Sánchez, Aaron Evans, Carolina Finlez, Michael Koss, David B. Sanders, C. Megan Urry. 2018, ApJ, 854, 83. [arXiv:1801.06190](#)
- 7 “The role of major mergers in (obscured) black hole growth and galaxy evolution”
E. Treister, **G. C. Privon**, C. Ricci, F. Bauer, K. Schawinski, MODA Collaboration. 2017, BAA, 59, 124.
- 6 “A Widespread, Clumpy Starburst in the Isolated Ongoing Dwarf Galaxy Merger dm1647+21”
G. C. Privon, S. Stierwalt, D. R. Patton, G. Besla, S. Pearson, M. Putman, K. E. Johnson, N. Kallivayalil, S. Liss. 2017, ApJ, 846, 74. [arXiv:1708.02587](#)
- 5 “The Dense Molecular Gas and Nuclear Activity in the ULIRG IRAS 13120–5453”

- 4 **G. C. Privon**, S. Aalto, N. Falstad, S. Muller, E. González-Alfonso, K. Sliwa, E. Treister, F. Costagliola, L. Armus, A. S. Evans, S. Garcia-Burillo, T. Izumi, K. Sakamoto, P. van der Werf, J. K. Chu. 2017, *ApJ*, 835, 213. [arXiv:1612.04401](#)
- “Excitation Mechanisms for HCN (1–0) and HCO⁺ (1–0) in Galaxies from the Great Observatories All-sky LIRG Survey”
- G. C. Privon**, R. Herrero-Illana, A. S. Evans, K. Iwasawa, M. A. Perez-Torres, L. Armus, T. Díaz-Santos, E. J. Murphy, S. Stierwalt, S. Aalto, J. M. Mazzarella, L. Barcos-Muñoz, H. J. Borish, H. Inami, D.-C. Kim, E. Treister, J. Surace, S. Lord, J. Conway, D. T. Frayer, A. Alberdi. 2015, *ApJ*, 814, 39. [arXiv:1509.07512](#)
- 3 “Dynamical Modeling of Galaxy Mergers Using Identikit”
- G. C. Privon**, J. E. Barnes, A. S. Evans, J. E. Hibbard, M. S. Yun, J. M. Mazzarella, L. Armus, J. Surace. 2013, *ApJ*, 771, 120. [arXiv:1303.3977](#)
- 2 “Modeling the Infrared Emission from Cygnus A”
- G. C. Privon**, S. A. Baum, C. P. O’Dea, J. Gallimore, J. Noel-Storr, D. J. Axon, and A. Robinson. 2012, *ApJ*, 747, 46P. [arXiv:1201.3319](#)
- 1 “WFPC2 LRF Imaging of Emission Line Nebulae in 3CR Radio Galaxies”
- G. C. Privon**, C. P. O’Dea, S. A. Baum, D. J. Axon, P. Kharb, C. L. Buchanan, W. Sparks, and M. Chiaberge. 2008, *ApJS*, 175, 423. [arXiv:0710.3105](#)

Journal Articles (as co-author)

- 65 “Radio Constraints on r-process Nucleosynthesis by Collapsars”
- K.H. Lee, I. Bartos, A. Cook, A. Corsi, Z. Marka, **G.C. Privon**, S. Marka. *submitted to AAS Journals* [arXiv:2202.09739](#)
- 64 “An orientation bias in observations of submillimetre galaxies”
- C. C. Lovell, J. E. Geach, R. Davé, D. Narayanan, K. E. K. Coppin, Q. Li, M. Franco, G. C. Privon. *submitted to MNRAS* [arXiv:2106.11588](#)
- 63 “After The Fall: Resolving the Molecular Gas in Post-Starburst Galaxies”
- Adam Smercina, John-David T. Smith, K. Decker French, Eric F. Bell, Daniel A. Dale, Anne M. Medling, Kristina Nyland, George C. Privon, Kate Rowlands, Fabian Walter, Ann I. Zabludoff. *submitted to AAS Journals* [arXiv:2108.03231](#)
- 62 “BASS XXXII: Outflow Scaling Relations in Low Redshift X-ray AGN Host Galaxies with MUSE”
- 2022, *MNRAS*, 511, 2105. [arXiv:2201.04149](#)
- 61 “The BPT Diagram in Cosmological Galaxy Formation Simulations: Understanding the Physics Driving Offsets at High Redshift”
- Prerak Garg, Desika Narayanan, Nell Byler, Ryan L. Sanders, Alice E. Shapley, Allison L. Strom, Romeel Davé, Michaela Hirschmann, Christopher C. Lovell, Justin Otter, Gergö Popping, **George C. Privon**. *accepted for publication in ApJ*. [arXiv:2201.03564](#)
- 60 “Black hole fueling in galaxy mergers: A high-resolution analysis”
- J. Prieto, A. Escala, **G. Privon**, J. d’Egny. 2021, *MNRAS*, 508, 3672. [arXiv:2101.09407](#)
- 59 “Comprehensive Broadband X-ray and Multiwavelength Study of Active Galactic Nuclei in Local 57 Ultra/luminous Infrared Galaxies Observed

- with NuSTAR and/or Swift/BAT” Satoshi Yamada, Yoshihiro Ueda, Atsushi Tanimoto, Masatoshi Imanishi, Yoshiki Toba, Claudio Ricci, **George C. Privon**. 2021, ApJS, 257, 61. [arXiv:2107.10855](https://arxiv.org/abs/2107.10855)
- 58 “Massive Star Cluster Formation and Destruction in Luminous Infrared Galaxies in GOALS II: An ACS/WFC3 Survey of Nearby LIRGs” Sean Linden, Aaron Evans, Kirsten Larson, **George Privon**, Lee Armus, Jeff Rich, Tanio Diaz-Santos, Eric Murphy, Yiqing Song, Loreto Barcos-Muñoz, Justin Howell, Vassilis Charmandaris, Hanae Inami, Vivian U, Jason Surace, Joseph Mazzarella, Daniela Calzetti. 2021, ApJ, 923, 278. [arXiv:2110.03638](https://arxiv.org/abs/2110.03638)
- 57 “Tracing the Ionization Structure of the Shocked Filaments of NGC 6240” Anne Medling, Lisa J. Kewley, Daniela Calzetti, **George C. Privon**, Kirsten Larson, Jeffrey A. Rich, Lee Armus, Mark G. Allen, Tanio Díaz-Santos, Timothy M. Heckman, Claus Leitherer, Claire E. Max, David S. N. Rupke, Ezequiel Treister, Hugo Messias. 2021, ApJ, 923, 160. [arXiv:2111.01025](https://arxiv.org/abs/2111.01025)
- 56 “High Molecular-gas to Dust Mass Ratios Predicted in Most Quiescent Galaxies” Katherine E. Whitaker, Desika Narayanan, Christina C. Williams, Qi Li, Justin S. Spilker, Romeel Davé, Mohammad Akhshik, Hollis B. Akins, Rachel Bezanson, Neal Katz, Joel Leja, Georgios E. Magdis, Lamiya Mowla, Erica J. Nelson, Alexandra Pope, **George C. Privon**, Sune Toft, Francesco Valentino. 2021, ApJL, 922 30. [arXiv:2111.05349](https://arxiv.org/abs/2111.05349)
- 55 “A Comparison between Nuclear Ring Star Formation in LIRGs and in Normal Galaxies with the Very Large Array” Y. Song, S. T. Linden, A. S. Evans, L. Barcos-Muñoz, **G. C. Privon**, I. Yoon, E. J. Murphy, K. L. Larson, T. Díaz-Santos, L. Armus, Joseph M. Mazzarella, J. Howell, H. Inami, N. Torres-Albà, V. U, V. Charmandaris, E. Momjian, J. McKinney, D. Kunneriath. 2021, ApJ, 916, 73. [arXiv:2107.00412](https://arxiv.org/abs/2107.00412)
- 53 “BAT AGN Spectroscopic Survey XXVII: Scattered X-Ray Radiation in Obscured Active Galactic Nuclei” K. K. Gupta, C. Ricci, A. Tortosa, Y. Ueda, T. Kawamuro, M. J. Koss, B. Trakhtenbrot, K. Oh, F. E. Bauer, F. Ricci, **G. C. Privon**, L. Zappacosta, D. Stern, D. Kakkad, E. Piconcelli, S. Veilleux, R. Mushotzy, T. Caglar, K. Ichikawa, A. Elagali, M. C. Powell, C. M. Urry, and F. Harrison. 2021, MNRAS, 504, 428. [arXiv:2103.10543](https://arxiv.org/abs/2103.10543)
- 52 “CON-quest: Searching for the most obscured galaxy nuclei” N. Falstad, S. Aalto, S. König, K. Onishi, S. Muller, M. Gorski, M. Sato, F. Stanley, F. Combes, E. González-Alfonso, J. G. Mangum, A. S. Evans, L. Barcos-Muñoz, **G. C. Privon**, S. T. Linden, T. Díaz-Santos, S. Martín, K. Sakamoto, N. Harada, G. A. Fuller, J. S. Gallagher, P. P. van der Werf, S. Viti, T. R. Greve, S. García-Burillo, C. Henkel, M. Imanishi, T. Izumi, Y. Nishimura, C. Ricci, S. Mühle. 2021, A&A, 649, 105. [arXiv:2102.13563](https://arxiv.org/abs/2102.13563)
- 51 “The Complex Gaseous and Stellar environments of the nearby dual AGN Mrk 739” Dusán Tubín, Ezequiel Treister, Giuseppe D’ago, Giacomo Venturi, Franz E. Bauer, **George C. Privon**, Michael J. Koss, Federica Ricci, Julia M. Comerford, and Francisco Müller-Sánchez. 2021, ApJ, 911, 100.

- 50 [arXiv:2103.12180](https://arxiv.org/abs/2103.12180)
 “BAT AGN Spectroscopic Survey – XXI: Molecular Gas in Nearby Hard X-ray Selected AGN”
 Michael J. Koss, Benjamin Strittmatter, Isabella Lamperti, Taro Shimizu, Benny Trakhtenbrot, Amelie Saintonge, Ezequiel Treister, Claudia Ciccone, Richard Mushotzky, Kyuseok Oh, Claudio Ricci, Franz E. Bauer, **George C. Privon**, Rudolf Baer, Carlos De Breuck, Fiona Harrison, Kohei Ichikawa, Meredith C. Powell, David Rosario, David B. Sanders, Kevin Schawinski, Li Shao, Daniel Stern, C. Megan Urry, and Sylvain Veilleux. 2021, *ApJS*, 252, 29. [arXiv:2010.15849](https://arxiv.org/abs/2010.15849)
- 49 “POWDERDAY: Dust Radiative Transfer for Galaxy Simulations”
 D. Narayanan, M. J. Turk, T. Robitaille, A. J. Kelly, B. C. McClellan, R. S. Sharma, P. Garg, M. Abruzzo, E. Choi, C. Conroy, B. D. Johnson, B. Kimock, Q. Li, C. C. Lovell, S. Lower, **G. C. Privon**, R. Jonathan, S. Sethuram, G. F. Snyder, R. Thompson, J. H. Wise. 2021, *ApJS*, 252, 12. [arXiv:2006.10757](https://arxiv.org/abs/2006.10757)
- 48 “FIRST J1419+3940 as the First Observed Radio Flare from a Neutron Star Merger”
 K. H. Lee, I. Bartos, **G. C. Privon**, J. C. Rose, P. Torrey. 2020, *ApJ*, 902, 23. [arXiv:2007.00563](https://arxiv.org/abs/2007.00563)
- 47 “A Compton-thick nucleus in the dual AGN of Mrk 266”
 K. Iwasawa, C. Ricci, **G. C. Privon**, N. Torres-Albá, H. Inami, V. Charmandaris, A. S. Evans, J. M. Mazzarella, and T. Díaz-Santos. 2020, *A&A*, 640, A95. [arXiv:2007.03258](https://arxiv.org/abs/2007.03258)
- 46 “ALMA [N II] 205 μm Imaging Spectroscopy of the Lensed Submillimeter galaxy ID 141 at redshift 4.24”
 Cheng Cheng, Xiaoyue Cao, Nanyao Lu, Ran Li, Chentao Yang, Dimitra Rigopoulou, Vassilis Charmandaris, Yu Gao, Cong Xu, Paul van der Werf, Tanio Diaz-Santos, **George Privon**, Yinghe Zhao, Tianwen Cao, Y.Sophia Dai, JiaSheng Huang, David Sanders, Chunxiang Wang, Zhong Wang, and Lei Zhu. 2020, *ApJ*, 898, 33. [arXiv:2006.01147](https://arxiv.org/abs/2006.01147)
- 45 “The BAT AGN Spectroscopic Survey – XVIII. Searching for Supermassive Black Hole Binaries in the X-rays”
 Tingting Liu, Michael Koss, Laura Blecha, Claudio Ricci, Richard Mushotzky, Benny Trakhtenbrot, Ezequiel Tresiter, Krista Lynne Smith, Kohei Ichikawa, **George Privon**, Darshan Kakkd, C. Megan Urry, Fiona Harrison, Isabella Lamperti, Kyuseok Oh, Meredith Powell, Kevin Schawinski, Daniel Stern. 2020, *ApJ*, 896, 122L. [arXiv:1912.02837](https://arxiv.org/abs/1912.02837)
- 44 “The Molecular Gas in the NGC 6240 Merging Galaxy System at the Highest Spatial Resolution”
 Ezequiel Treister, Hugo Messias, **George C. Privon**, Neil Nagar, Anne M. Medling, Vivian U, Franz E. Bauer, Claudia Ciccone, Loreto Barcos-Muñoz, Aaron S. Evans, Francisco Müller-Sánchez, Julia M. Comerford, Lee Armus, Chin-Shin Chang, Michael Koss, Giacomo Venturi, Kevin Schawinski, Caitlin Casey, C. Megan Urry, David B. Sanders, Nicholas Scoville, Kartik Sheth. 2020, *ApJ*, 890, 149T. [arXiv:2001.00601](https://arxiv.org/abs/2001.00601)
- 43 “Star-forming Clumps in Local Luminous Infrared Galaxies”
 K. L. Larson, T. Díaz-Santos, L. Armus, **G. C. Privon**, S. T. Linden, A. S.

- Evans, J. Howell, V. Charmandaris, V. U, D. B. Sanders, S. Steirwalt, L. Barcos-Muñoz, J. Rich, A. Medling, D. Cook, and A. Oklopčić. 2020, ApJ, 888, 92L. [arXiv:1911.09367](https://arxiv.org/abs/1911.09367)
- 42 “Dual black hole associated with obscured and unobscured AGN: CXO J101527.2+625911”
D. -C. Kim, E. Momjian, Ilsang Yoon, Minjin Kim, A. S. Evans, Ji Hoon Kim, S. T. Linden, L. Barcos-Munoz, **G. C. Privon**. 2019, ApJ, 883, 149. [arXiv:1907.10161](https://arxiv.org/abs/1907.10161)
- 41 “A Very Large Array Survey of Luminous Extranuclear Star-forming Regions in Luminous Infrared Galaxies in GOALS”
S. T. Linden, Y. Song, A. S. Evans, E. J. Murphy, L. Armus, L. Barcos-Muñoz, K. Larson, T. Díaz-Santos, **G. C. Privon**, J. Howell, J. A. Surace, V. Charmandaris, V. U, A. M. Medling, J. Chu, E. Momjian. 2019, ApJ, 881, 70. [arXiv:1906.05182](https://arxiv.org/abs/1906.05182)
- 40 “The dark heart of the luminous infrared galaxy IC860 I. A molecular inflow feeding hidden, extreme nuclear activity”
S. Aalto, S. Muller, S. König, N. Falstad, J. Mangum, K. Sakamoto, **G. C. Privon**, J. Gallagher, F. Combes, S. García-Burillo, S. Martín, S. Viti, P. van der Werf, A. S. Evans, J.H. Black, E. Varenus, R. Beswick, G. Fuller, C. Henkel, K. Kohno, K. Alatalo, and S. Mühle. 2019, A&A, 627A, 147A. [arXiv:1905.07275](https://arxiv.org/abs/1905.07275)
- 39 “Keck OSIRIS AO LIRG Analysis (KOALA): Feedback in the Nuclei of Luminous Infrared Galaxies”
Vivian U, Anne M. Medling, Hanae Inami, Lee Armus, Tanio Díaz-Santos, Vassilis Charmandaris, Justin Howell, Sabrina Stierwalt, **George C. Privon**, Sean T. linden, David B. Sanders, Claire E. Max, Aaron S. Evans, Loreto Barcos-Muñoz, Charleston W. K. Chiang, Phil Appleton, Gabriela Canalizo, Giovanni Fazio, Kazushi Iwasawa, Kirsten Larson, Joseph Mazzarella, Eric Murphy, Jeffrey Rich, and Jason Surace. 2019, ApJ, 871, 166. [arXiv:1811.09281](https://arxiv.org/abs/1811.09281)
- 38 “C-GOALS II. Chandra Observations of the Lower Luminosity Sample of Nearby Luminous Infrared Galaxies in GOALS”
N. Torres-Albà, K. Iwasawa, T. Díaz-Santos, V. Charmandaris, C. Ricci, J. K. Chu, D. B. Sanders, L. Armus, L. Barcos-Muñoz, A.S. Evans, J. H. Howell, H. Inami, S. T. Linden, A. M. Medling, **G. C. Privon**, V. U, I. Yoon. 2018, A&A, 620, 140. [arXiv:1810.02371](https://arxiv.org/abs/1810.02371)
- 37 “The Frequency of Dwarf Galaxy Multiples at Low Redshift in SDSS vs. Cosmological Expectations”
Gurtina Besla, David R. Patton, Sabrina Stierwalt, Vicente Rodriguez-Gomez, Ekta Patel, Nitya J. Kallivaylil, Kelsey E. Johnson, Sarah Pearson, **George C. Privon**, Mary E. Putman. 2018, MNRAS, 480, 3376. [arXiv:1807.06673](https://arxiv.org/abs/1807.06673)
- 36 “ALMA [C I]³P₁ – ³P₀ observations of NGC 6240: a puzzling nuclear outflow, and the role of outflows in the global α_{CO} factor of (U)LIRGs”
Claudia Cicone, Paola Severgnini, Padelis P. Papadopoulos, Roberto Maiolino, Chiara Feruglio, Ezequiel Treister, **George C. Privon**, Zhi-yu Zhang, Roberto Della Ceca, Fabrizio Fiore, Kevin Schawinski, and Jeff Wagg. 2018, ApJ, 863, 143. [arXiv:1807.06015](https://arxiv.org/abs/1807.06015)

- 35 “CO (7-6), [CI] 370 micron and [NII] 205 micron Line Emission of the QSO
BRI 1335-0417 at Redshift 4.407”
Nanyao Lu, Tianwen Cao, Tanio Diaz-Santos, Yinghe Zhao, **George C.
Privon**, Cheng Cheng, Yu Gao, C. Kevin Xu, Vassilis Charmandaris, Dimi-
tra Rigopoulou, Paul P. van der Werf, Jiasheng Huang, Zhong Wang,
Aaron S. Evans, David B. Sanders. 2018, ApJ, 864, 38. [arXiv:1807.05681](#)
- 34 “Warm Molecular Hydrogen in Nearby, Luminous Infrared Galaxies”
Andreea O. Petric, Lee Armus, Nicolas Flagey, Pierre Guillard, Justin
Howell, Hanae Inami, Vassillis Charmandaris, Aaron Evans, Sabrina
Stierwalt, Tanio Diaz-Santos, Nanyao Lu, Henrik Spoon, Joe Mazzarella,
Phil Appleton, Ben Chan, Jason Chu, Derek Hand, **George Privon**, David
Sanders, Jason Surace, Kevin Xu, Yinghe Zhao. 2018, AJ, 156, 295.
[arXiv:1805.09926](#)
- 33 “Two Separate Outflows in the Dual Supermassive Black Hole System NGC
6240”
F. Müller-Sánchez, R. Nevin, J. Comerford, R. Davies, **G. C. Privon**, E.
Treister. 2018, Nature, 556, 345. [arXiv:1804.06563](#)
- 32 “Fast, Colimated Outflow in the Western Nucleus of Arp 220”
L. Barcos-Muñoz, S. Aalto, T. A. Thompson, K. Sakamoto, S. Martín,
A. K. Leroy, **G. C. Privon**, A. S. Evans, A. Kepley. 2018, ApJ, 853L, 28.
[arXiv:1712.06381](#)
- 31 “A Hidden Molecular Outflow in the LIRG Zw 049.057”
N. Falstad, S. Aalto, J. G. Mangum, F. Costagliola, J. S. Gallagher, E.
González-Alfonso, K. Sakamoto, S. König, S. Muller, A. S. Evans, **G. C.
Privon**. 2018, A&A, 609, 75. [arXiv:1711.05321](#)
- 30 “H i vs. H α – Comparing the Kinematic Tracers in Modeling the Initial Con-
ditions of the Mice”
S. A. Mortazavi, J. M. Lotz, J. E. Barnes, **G. C. Privon**, G. F. Snyder. 2018,
MNRAS, 474, 3423. [arXiv:1701.03819](#)
- 29 “An atomic hydrogen bridge fueling NGC 4418 with gas from VV 655”
E. Varenus, F. Costagliola, H.-R. Klöckner, S. Aalto, H. Spoon, I. Martí-
Vidal, J. E. Conway, **G. C. Privon**, S König. 2017, A&A, 706, 43.
[arXiv:1705.00991](#)
- 28 “A Herschel/PACS Far Infrared Line Emssion Survey of the Local Luminous
Infrared Galaxies in GOALS”
T. Díaz-Santos, L. Armus, V. Charmandaris, N. Lu, S. Stierwalt, G. Stacey,
S. Malhotra, P. P. van der Werf, J. H. Howell, **G. C. Privon**, J. M. Maz-
zarella, P. F. Goldsmith, E. J. Murphy, L. Barcoc-Muñoz, S. T. Linden,
H. Inami, K. L. Larson, A. S. Evans, P. Appleton, K. Iwasawa, S. Lord, D.
B. Sanders, J. A. Surace. 2017, ApJ, 846, 32. [arXiv:1705.04326](#)
- 27 “ALMA [NII] 205 micron Imaging Spectroscopy of the Interacting Galaxy
System BRI 1202-0725 at Redshift 4.7”
Nanyao Lu, Yinghe Zhao, Tanio Diaz-Santos, C. Kevin Xu, Vassilis Char-
mandaris, Yu Gao, Paul P. van der Werf, **George C. Privon**, Hanae In-
ami, Dimitra Rigopoulou, David B. Sanders, Lei Zhu 2017, ApJL, 842,
16. [arXiv:1706.03018](#)
- 26 “A 33 GHz Survey of Local Major Mergers: Estimating the Size of the Active
Region from High Resolution Measurements of the Radio Continuum”

- L. Barcos-Muñoz, A. K. Leroy, A. S. Evans, J. Condon, **G. C. Privon**, T. A. Thompson, L. Armus, T. Díaz-Santos, J. M. Mazzarella, D. S. Meier, E. Momjian, E. J. Murphy, J. Ott, D. B. Sanders, E. Schinnerer, S. Stierwalt, J. A. Surace, F. Walter. 2017, ApJ, 843, 117. [arXiv:1705.10801](#)
- 25 “Massive Star Cluster Formation and Destruction in Luminous Infrared Galaxies in GOALS”
S. T. Linden, A. S. Evans, J. Rich, K. Larson, L. Armus, T. Díaz-Santos, **G. C. Privon**, J. Howell, H. Inami, D.-C. Kim, L.-H. Chien, T. Vavilkin, J. M. Mazzarella, J. A. Surace. 2017, ApJ, 843, 91. [arXiv:1705.03370](#)
- 24 “A Herschel Space Observatory Spectral Line Survey of Local Luminous Infrared Galaxies Over 194 to 671 Microns”
N. Lu, Y. Zhao, T. Díaz-Santos, C. K. Xu, Y. Gao, L. Armus, K. G. Isaak, J. M. Mazzarella, P. P. van der Werf, P. N. Appleton, V. Charmandaris, A. S. Evans, J. Howell, K. Iwasawa, J. Leech, S. Lord, A. O. Petric, **G. C. Privon**, D. B. Sanders, B. Schulz, J. Surace. 2017, ApJS, 231, 1. [arXiv:1703.00005](#)
- 23 “Extreme CO Isotopic Abundances in the ULIRG IRAS 13120-5453: An Extremely Young Starburst or Top-heavy Initial Mass Function”
Kazimierz Sliwa, Christine D. Wilson, Susanne Aalto, **George C. Privon**. 2017, ApJ, 840L, 11. [arXiv:1704.06671](#)
- 22 “A Potential Recoiling Supermassive Black Hole CXO J101527.2+625911”
D.-C. Kim, I. Yoon, **G. C. Privon**, D. Harvey, A. S. Evans, S. Stierwalt. 2017 ApJ, 840, 71. [arXiv:1704.05549](#)
- 21 “The Great Observatories All-sky LIRG Survey: Herschel Image Atlas and Aperture Photometry”
J. K. Chu, D. B. Sanders, K. L. Larson, J. M. Mazzarella, J. H. Howell, T. Diaz-Santos, K. C. Xu, R. Paladini, B. Schulz, D. Shupe, P. Appleton, L. Armus, N. Billot, B. H. P. Chan, A. S. Evans, D. Fadda, D. T. Frayer, S. Haan, C. M. Ishida, K. Iwasawa, D.-C. Kim, S. Lord, E. Murphy, A. Petric, **G. C. Privon**, J. A. Surace, E. Treister 2017, ApJS, 229, 25. [arXiv:1702.01756](#)
- 20 “Growing Supermassive Black Holes in the Late Stages of Galaxy Mergers are Heavily Obscured”
C. Ricci, F. E. Bauer, E. Treister, K. Schawinski, **G. C. Privon**, L. Blecha, P. Arevalo, L. Armus, F. Harrison, L. C. Ho, K. Iwasawa, D. B. Sanders, D. Stern. 2017, MNRAS, 468, 1273. [arXiv:1701.04825](#)
- 19 “Direct Evidence of Hierarchical Assembly at Low Masses: Isolated Dwarf Galaxy Groups”
S. Stierwalt, S. E. Liss, K. E. Johnson, D. Patton, **G. C. Privon**, G. Besla, N. Kallivayalil, M. Putman. 2017, Nature Astronomy, 1, 0025. [arXiv:1701.01731](#)
- 18 “Spatially Resolved Spectroscopy of Sub-mm Galaxies at $z \simeq 2$ ”
V. Olivares, E. Treister, **G. C. Privon**, S. Alaghband-Zadeh, C. Casey, K. Schawinski, P. Kurczynski, E. Gawiser, S. Chapman, I. Smail, F. Bauer, N. Nagar, D. Sanders. 2016, ApJ, 827, 57. [arXiv:1606.05351](#)
- 17 “Morphology and Molecular Gas Fractions of Local Luminous Infrared Galaxies as a Function of Infrared Luminosity and Merger Stage”
K. L. Larson, D. B. Sanders, J. E. Barnes, C. M. Ishida, A. S. Evans, V. U, J. M. Mazzarella, D.-C. Kim, **G. C. Privon**, I. F. Mirabel. 2016, ApJ, 825,

128. [arXiv:1605.05417](https://arxiv.org/abs/1605.05417)
- 16 “Kinematically Identified Recoiling Supermassive Black Hole Candidates in SDSS QSOs with $z < 0.25$ ”
D.-C. Kim, A. S. Evans, S. Stierwalt, **G. C. Privon**, 2016, ApJ, 824, 122. [arXiv:1604.05604](https://arxiv.org/abs/1604.05604)
- 15 “NuSTAR unveils a heavily obscured low-luminosity Active Galactic Nucleus in the Luminous Infrared Galaxy NGC 6286”
C. Ricci, F. E. Bauer, E. Treister, C. Romero-Canizales, P. Arevalo, K. Iwasawa, **G. C. Privon**, D. B. Sanders, K. Schawinski, D. Stern, M. Imanishi, 2016, ApJ, 819, 4. [arXiv:1601.05800](https://arxiv.org/abs/1601.05800)
- 14 “Global Properties of Neutral Hydrogen in Compact Groups”
L. M. Walker, K. E. Johnson, S. C. Gallagher, **G. C. Privon**, A. A. Kepley, D. G. Whelan, T. D. Desjardins, A. I. Zabludoff, 2016, AJ, 151, 2. [arXiv:1510.07628](https://arxiv.org/abs/1510.07628)
- 13 “TiNy Titans: The Role of Dwarf-Dwarf Interactions in the Hierarchical Assembly of Low Mass Galaxies”
S. Stierwalt, G. Besla, D. Patton, K. Johnson, N. Kallivayalil, M. Putman, **G. C. Privon**, G. Ross, 2015, ApJ, 805, 2. [arXiv:1412.4796](https://arxiv.org/abs/1412.4796)
- 12 “Measuring Star-formation Rate and its Surface Density in Galaxies at High Redshift Using the CO(7–6) and [N ii] 205 μm Lines”
Nanyao Lu, Yinghe Zhao, C. Kevin Xu, Yu Gao, Tanio Díaz-Santos, Vasilis Charmandaris, Hanae Inami, Justin Howell, Lijie Liu, Lee Armus, Joseph M. Mazzarella, **George C. Privon**, Steven D. Lord, David B. Sanders, Bernhard Schulz, and Paul P. van der Werf, 2015, ApJ, 802 L11. [arXiv:1503.02052](https://arxiv.org/abs/1503.02052)
- 11 “Near infrared spectroscopy of the type II_n SN 2010jl: evidence for high velocity ejecta”
Borish, H. Jacob; Huang, Chenliang; Chevalier, Roger A.; Breslauer, Benjamin M.; Kingery, Aaron M.; **Privon, George C.** 2015, ApJ, 801, 7. [arXiv:1406.5531](https://arxiv.org/abs/1406.5531)
- 10 “ALMA Observations of Warm Dense Gas in NGC 1614 – Breaking of Star Formation Law in the Central kpc”
C. K. Xu, C. Cao, N. Lu, Y. Gao, T. Diaz-Santos, R. Herrero-Illana, R. Meijerink, **G. C. Privon**, Y.-H. Zhao, A. S. Evans, S. König, J. M. Mazzarella, S. Aalto, L. Armus, V. Charmandaris, J. Chu, S. Haan, H. Inami, E. J. Murphy, D. B. Sanders, B. Schulz, P. van der Werf. 2015, ApJ, 799, 11. [arXiv:1411.1111](https://arxiv.org/abs/1411.1111)
- 9 “High-Resolution Radio Continuum Measurements of the Nuclear Disks of Arp 220”
L. Barcos-Munoz, A. K. Leroy, A. S. Evans, **G. C. Privon**, L. Armus, J. Condon, J. M. Mazzarella, D. Meier, E. Momjian, E. J. Murphy, J. Ott, A. Reichardt, K. Sakamoto, D. B. Sanders, E. Schinnerer, S. Stierwalt, J. A. Surace, and F. Walter. 2015, ApJ, 799, 10. [arXiv:1411.0932](https://arxiv.org/abs/1411.0932)
- 8 “Radio Continuum Properties of Luminous Infrared Galaxies: Identifying the presence of an AGN in the radio”
E. Vardoulaki, V. Charmandaris, E. J. Murphy, T. Diaz-Santos, L. Armus, A. S. Evans, J. Mazzarella, **G. C. Privon**, S. Stierwalt, L. Barcos-Munoz. 2014, A&A, 574, A4. [arXiv:1408.4177](https://arxiv.org/abs/1408.4177)

- 7 “ALMA Observations of the Antennae Galaxies: I. A New Window on a Prototypical Merger”
B. Whitmore, C. Brogan, R. Chandar, A. Evans, J. Hibbard, K. Johnson, A. Leroy, **G. C. Privon**, A. Remijan, K. Sheth. 2014, ApJ, 795, 156. [arXiv:1410.4473](#)
- 6 “Hubble Space Telescope ACS Imaging of the GOALS Sample: Quantitative Structural Properties of Nearby Luminous Infrared Galaxies with $L_{IR} > 10^{11.4} L_{\odot}$ ”
D.-C. Kim, A. S. Evans, T. Vavilkin, L. Armus, J. Mazzarella, K. Sheth, J.A. Surace, S. Haan, J. H. Howell, T. Díaz-Santos, A. Petric, K. Iwasawa, **G. C. Privon**, and D. B. Sanders. 2013, ApJ, 768, 102. [arXiv:1303.3977](#)
- 5 “Ne V emission in five blue compact dwarf galaxies”
Y. Izotov, T. Thuan, and **G. C. Privon**. 2012, MNRAS, 427, 1229. [arXiv:1209.5265](#)
- 4 “Investigation of Dual Active Nuclei, Outflows, Shock-Heated Gas, and Young Star Clusters in Markarian 266”
J. Mazzarella, K. Iwasawa, T. Vavilkin, L. Armus, D.-C. Kim, G. Bothun, A. S. Evans, H. W. W. Spoon, S. Haan, J. H. Howell, S. Lord, J. A. Marshall, C. M. Ishida, C. K. Xu, A. Petric, D. B. Sanders, J.A. Surace, P. Appleton, B. H. Chan, D. T. Frayer, H. Inami, Y. E. Khachikian, B. F. Madore, **G. C. Privon**, E. Sturm, V. U, and S. Veilleux. 2012, AJ, 144, 125. [arXiv:1208.3248](#)
- 3 “Complex Radio Spectral Energy Distributions in Luminous and Ultraluminous Infrared Galaxies”
A. Leroy, A. Evans, E. Momjian, E. Murphy, J. Ott, L. Armus, J. Condon, S. Haan, J. Mazzarella, D. Meier, **G. C. Privon**, E. Schinnerer, J. Surace, and F. Walter. 2011, ApJL, 739, 25. [arXiv:1107.4109](#)
- 2 “An Infrared Survey of Brightest Cluster Galaxies. II: Why are Some Brightest Cluster Galaxies Forming Stars?”
C. O’Dea, S. Baum, **G. C. Privon**, J. Noel-Storr, A. Quillen, N. Zufelt, J. Park, A. Edge, H. Russell, A. Fabian, M. Donahue, C. L. Sarazin, B. R. McNamara, J. N. Bregman, and E. Egami. 2008, ApJ, 681, 1035. [arXiv:0803.1772](#)
- 1 “An infrared survey of brightest cluster galaxies: Paper I”
A. Quillen, N. Zufelt, J. Park, C. O’Dea, S. Baum, **G. C. Privon**, J. Noel-Storr, A. Edge, H. Russell, A. Fabian, M. Donahue, J. N. Bregman, B. R. McNamara, and C. L. Sarazin. 2008, ApJS, 176, 39. [arXiv:0711.1118](#)

Research Notes

- 2 “Limits on Vibrationally Excited HCN Emission in Four HCN-enhanced GOALS Galaxies”
Desmond L. Jeff, **George C. Privon**, Aaron Evans, Eric J. Murphy, Loreto Barcos-Muñoz, Susanne Aalto, and Tanio Díaz-Santos. 2020, RNAAS, 4, 5.
- 1 “A Serendipitous Hard X-ray Detection of the Blazar LBQS 1319+0039”
G. C. Privon, C. Ricci, F. E. Bauer, M. Á. Pérez-Torres, R. Herrero-Illana, E. Treister, S. Aalto. 2018, RNAAS, 2, 177. [arXiv:1809.10118](#)

Conference Proceedings

- 2 “A multi-wavelength classification system for the evolution of star clusters”
Bradley C. Whitmore, Crystal Brogan, Rupali Chandar, Aaron Evans, John Hibbard, Kelsey Johnson, Adam Leroy, **George Privon**, Anthony Remijan, Kartik Sheth. “From Interstellar Clouds to Star-Forming Galaxies: Universal Processes?”, Proceedings of the International Astronomical Union, IAU Symposium, Volume 315, pp. 142-145”.
- 1 “Experiments with Identikit”
J. E. Barnes and **G. C. Privon** “Galaxy Mergers in an Evolving Universe”, Hualien, Taiwan, October 23–28, 2011. [arXiv:1112.4186](https://arxiv.org/abs/1112.4186)

White Papers

- 2 “The Importance of Telescope Training in Data Interpretation”. David Whelan, **George C. Privon**, Rachael L. Beaton, Misty Bentz, S. Drew Chojnowski, Jonathan Ladabie-Bartz, Gregory Mace, Ryan Maderak, Steven R. Majewski, David Nidever, James Webb. Astro2020: Astronomy and Astrophysics Community for Science Activity, Project, and State of the Profession Consideration (APC). [arXiv:1907.05889](https://arxiv.org/abs/1907.05889)
- 1 “The Importance of Hands-on Experience with Telescopes for Students”. **G. C. Privon**, R. L. Beaton, D. G. Whelan, A. Yang, K. Johnson, and J. Condon. Astro2010: The Astronomy and Astrophysics Decadal Survey, Position Papers, no. 45. [arXiv:0903.3447](https://arxiv.org/abs/0903.3447)

Interviews

- 2 “Episode 22: Merging galaxies with Dr. Privon”. *Spacepod* podcast with Dr. Carrie Nugent. <http://www.listentospacepod.com/episodes/2015/12/3/episode-22-merging-galaxies-with-dr-privon>. 2015.
- 1 “Using AGN to reveal the mysteries of the Universe”. Satellite Science Magazine (an Indian science publication aimed at amateur astronomers). 2012

Colloquia and Seminars

University of Oslo (2019), University of Wisconsin-Madison (2019), National Radio Astronomy Observatory [Charlottesville] (2019), University of Connecticut (2019), Max Planck Institute for Astrophysics (2019), St. Mary’s University, Nova Scotia (2019), University of Florida Astronomy (2019), University of Kansas (2019), University of Florida Astronomy (2018), University of Wyoming (2018), University of California Santa Barbara (2018), Carnegie Observatories (2018), University of Florida Physics (2018), Universidad Diego Portales (2018), Pontificia Universidad Católica de Chile (2018), University of Colorado (2018), Chalmers University of Technology (2018), University of Hawaii (2017), Eidgenössische Technische Hochschule

(ETH) Zürich (2016), Joint ALMA Observatory (2016), Columbia University (2015), Pontificia Universidad Católica de Chile (2015), Universidad de Concepción (2014), University of California Los Angeles (2014), Carnegie Observatories (2014), Yale University (2013), University of Massachusetts Amherst (2013), Columbia University (2013), Rochester Institute of Technology (2013), University of California Santa Barbara (2013), University of California Riverside (2013), National Optical Astronomy Observatory / Steward Observatory (2013), Harvard University (2013), Howard University (2012), National Radio Astronomy Observatory (2012), Instituto de Astrofísica de Andalucía (2012), University of Hawaii (2012), Indian National Centre for Radio Astrophysics (2010).

Contributed Conference Talks

- Jan 2022 “MIR Characterization of Compact Obscured Nuclei in the 2020s”. CONquest Workshop. Virtual.
- Sept 2021 “Clumpy, Distributed Star Formation in Isolated TNT Pairs”. TiNy Titans Workshop. Virtual.
- Jul 2021 “A Census of Cold Molecular Gas in GOALS”. GOALS Workshop, Virtual.
- Jan 2021 “Toward a Radio/millimeter Color Selection for Compact Obscured Nuclei”. CONquest Workshop. Virtual.
- Jul 2019 “A Hard X-ray Test of Millimeter AGN Diagnostics”. Behind the Curtain of Dust III. Sexten, Italy.
- Mar 2018 “Dynamical Modeling of Galaxy Mergers: Dwarfs to (U)LIRGs”. Galaxy interactions and mergers across cosmic time. Sexten, Italy.
- Jul 2017 “Physical conditions and chemistry in LIRGs”, Behind the Curtain of Dust II – The molecular and multi-wavelength view of activity in (U)LIRGs, Sexten, Italy.
- Jan 2017 “The Dense Molecular Gas and Nuclear Activity in the Local ULIRG IRAS 13120-5453”, 229th American Astronomical Society Meeting, Grapevine, Texas, USA.
- Nov 2016 “Constraining AGN Duty Cycles Using Hybrid N-body + Test Particle Merger Simulations”, Second Chilean Workshop on Theoretical and Numerical Astrophysics, Santiago, Chile.
- Aug 2016 “Large Scale Outflows and Dense Outflows in low-z ULIRGs”, Mapping the Pathways of Galaxy Transformation Across Time and Space, Avalon, California, USA.
- Mar 2016 “Dense Gas Tracers in the ULIRG IRAS 13120–5453”, Sociedad Chilena de Astronomía Annual Meeting, Antofagasta, Chile.
- Mar 2015 “High-density Molecular Gas Tracers in (U)LIRGs: AGN or Star Formation?”. Sociedad Chilena de Astronomía Annual Meeting, Puerto Varas, Chile.
- Mar 2015 “High-density Molecular Gas Tracers in (U)LIRGs: AGN or Star Formation?”. Unveiling the AGN – Galaxy Evolution Connection, Puerto Varas, Chile.
- Jan 2015 “GOALS: HI Mapping of Local (U)LIRGs”, 225th American Astronomical Society Meeting, Seattle, Washington, USA.
- Jan 2014 “The Dynamics and Cold Gas Content of Luminous Infrared Galaxies in the Local Universe” (Dissertation Talk), 223rd American Astronomical

- Society Meeting, Washington, DC, USA.
- Jan 2013 “Dynamical Modeling of Galaxy Mergers With Identikit”. 221st American Astronomical Society Meeting, Long Beach, CA, USA.
- Nov 2009 “The Infrared Emission from Cygnus A”. Triggering and Feedback in Powerful Radio Galaxies, Leiden, Netherlands.

Significant Accepted Open Time Observing Proposals

As Principal Investigator

- 2021 NuSTAR Cycle 7 proposal to search for heavily obscured AGN in a sample of local ULIRGs. 180ks at Priority B.
- 2021 James Webb Space Telescope General Observer Cycle 1, Characterization of Compact Obscured Nuclei. 8.5 hours.
- 2020 NuSTAR Cycle 6 proposal to search for heavily obscured AGN in a sample of local ULIRGs. 130ks at Priority B.
- 2018 NuSTAR Cycle 4 proposal to search for a heavily obscured AGN in the merger remnant NGC 7252. 60ks at Priority B.
- 2017 NuSTAR Cycle 3 proposal to test a proposed method of finding highly obscured AGN by their molecular gas emission signatures. 80ks at Priority A.
- 2015–2018 Eight VLT/MUSE proposals for the study of merger-driven galaxy transformation and nuclear feedback across a range of galaxy mass. 73 hours awarded.
- 2015–2017 APEX mm/sub-mm Telescope–Survey of CO (3–2) in local Luminous Infrared Galaxies. 78 hours.
- 2013 LOFAR Radio Telescope, Cycle 1, “ISM Properties and Recurrent Nuclear Activity in Nearby Luminous Galaxy Mergers”. 4 hours for a pilot study.
- 2012 Herschel Space Telescope, Open Time 2, Priority 1 Proposal: “Measuring the Far-Infrared SED of Cygnus A”, \$21,200.
- 2009–2011 Westerbork Synthesis Radio Telescope, Jansky Very Large Array, and Giant Metrewave Radio Telescope – Hi Mapping of Luminous Infrared Galaxies. Approximately 500 hours awarded through multiple proposals.

As Co-Investigator

- 2017 James Webb Space Telescope, Early Release Science Program. “A JWST Study of the Starburst-AGN Connection in Merging LIRGs”. 31 hours.

Student Advising & Mentoring

Sole supervisor unless otherwise noted.

- 2021–present Swetha Sankar (NRAO REU), ALMA ACA observations of molecular gas in dwarf galaxy pairs.

2020–present	Nicholas Barth (University of Florida), stellar abundances in elliptical galaxies. (Co-supervision with Prof. R. Ezzeddine).
2020	Akshay Gowrishankar (Caltech SURF), Visualization of archival data searches. (Co-supervision with Dr. V. U).
2018–2019	Desmond Jeff (MS), “A search for vibrational HCN emission and the origins of HCN enhancement in GOALS galaxies”. University of Florida.
2019	Sean Burnette (undergraduate research), Search for radio relics in IR-selected galaxies. University of Florida
2018	Spencer Scott (Summer Undergraduate Research at Florida). Measured versus true dust temperatures in hydrodynamic cosmological zoom simulations. University of Florida (Co-supervision with Prof. D. Narayanan).
2018–2019	Kaia Hines, Katilyn Kosciw, Natalia Wollschlaeger, Urja Shah, Azaria Chamorro (undergraduate research). Galaxies reading group, python tutorial, and optical imaging data reduction. University of Florida.
2018–2019	John Della Costa (undergraduate research), High-resolution spectroscopy of elliptical galaxies. University of Florida.
2018–2019	Brian Denz (undergraduate research), “Interactive Visualization of Archival Galaxy Observations”. University of Florida.
2018–2019	Jensen Kaplan (undergraduate research), “Machine Learning and Classification of Infrared Galaxies”. University of Florida.
2015–2018	Sarah Pearson (PhD, collaboration). “Dynamical Modeling of Interacting Dwarf Galaxies with Identikit”. Columbia University.
2015–2016	Joaquín Zamponi (undergraduate independent research). “ALMA CO (2–1) Observations of Dual AGN Host Galaxies”. Universidad de Concepción.
2014–2015	Valeria Olivares (MS, mentoring and collaboration). “High-resolution Spatially Resolved Spectroscopy of Sub-mm Galaxies at $z \simeq 2$ ”. Valeria Olivares. Universidad de Concepción.
2013–2014	Poon Panichpibool (4th Year Thesis). “Simulating Cluster Destruction in Luminous Infrared Galaxy Mergers”. Poon Panichpibool. University of Virginia (Co-supervision, with Prof. R. O’Connell).

Teaching and Public Outreach

Courses Taught

2010	ASTR 1220: “Introduction to Stars, Galaxies, and the Universe”. University of Virginia, Summer Term.
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Other Teaching

2020	ALMA Community Day (an introduction to radio interferometry and writing proposals for the ALMA radio telescope), University of Wyoming (hosted online)
2019	Interferometry Imaging Techniques 1-day Workshop, University of Florida, Gainesville, FL
2019	ALMA Community Day, University of Florida, Gainesville, FL
2018–2019	Undergraduate Research Programming Group, Gainesville, FL

Positions Held

2012	Astronomy Tutor for the University of Virginia Athletics Department, Charlottesville, VA
2007–2012	Graduate Teaching Assistant, Department of Astronomy, University of Virginia, Charlottesville, VA
2011–2012	Telescope Operator for Telescope Observing Lab, University of Virginia, Charlottesville, VA
2009–2010	Head Teaching Assistant for the University of Virginia Astronomy Department, TA for Introduction to Astronomical Observing, and Website TA, Charlottesville, VA
2008–2009	Introduction to Astronomical Observing Head TA, Website TA, University of Virginia, Charlottesville, VA
2007–2008	Constellation Quiz Head TA, TA for Introduction to Cosmology, TA for Introduction to Astronomical Observing, TA for Telescope Observing, University of Virginia, Charlottesville, VA
2004–2005	Teaching Assistant for Introductory Physics Classes, Physics Department, Rochester Institute of Technology

Public Outreach

2009–2015	Various outreach with elementary and middle school students, including: classroom visits, live webcasts from world-class telescope facilities, and online question and answer sessions. 2–5x per year.
2007–2012	University of Virginia Department of Astronomy public nights at McCormick Observatory and Fan Mountain Observatory. Giving tours of the observatory and showing astronomical objects through telescopes to visiting public. 2–3x per year.
2010–2012	University of Virginia Department of Astronomy CLUSTER telescope loan program for middle and high school students. Assisted instruction of teachers in the use of 12” telescopes for later use in their classes. http://www.astro.virginia.edu/public_outreach/CLUSTER/
2005–2007	Rochester Institute of Technology Observatory public nights. Giving tours of the observatory and showing astronomical objects through telescopes to visiting public. 1–2x per year.

Professional Service

Scientific referee for: The Astrophysical Journal, The Astronomical Journal, The Astrophysical Journal Letters, The Monthly Notices of the Royal Astronomical Society, Astronomy & Astrophysics

2022–present	AAS Sustainability Committee, member (effective June 2022)
2021	NASA Review Panel
2021	NSF Review Panel
2019	ALMA Review Panel, Cycle 7

- 2018–2020 Organizer, 2–3x/week Journal Club, Department of Astronomy, University of Florida
- 2018–2019 University Multicultural Mentor Program, University of Florida. Mentor to a first-year undergraduate in the College of Liberal Arts and Sciences.
- 2017 ALMA Review Panel, Cycle 4 Supplemental Call
- 2016 Organizer, Galaxy Evolution Discussion Group, Instituto de Astrofísica, Pontificia Universidad Católica de Chile
- 2015 Seminar Chair, Department of Astronomy, Universidad de Concepción
- 2015 Organizer, Galaxy Evolution Discussion Group, Department of Astronomy, Universidad de Concepción
- 2011–2013 Giant Metrewave Radio Telescope Proposal Reviewer

Conference & Workshop Organization

- 2020 ALMA Community Day (ALMA Cycle 8), March 2020, University of Wyoming (hosted online).
- 2019 Interferometry Imaging Techniques Workshop, May 2019, University of Florida, Gainesville, FL.
- 2019 ALMA Community Day (ALMA Cycle 7), March 2019, University of Florida, Gainesville, FL.
- 2019 The BAT AGN Spectroscopic Survey, Team Workshop. 03–06 February 2019, University of Florida. Organizer.
- 2018 “The Astrophysics of Massive Black Hole Mergers: From Galaxy Mergers to the Gravitational Wave Regime”. 17 June – 08 July 2018. Aspen Center for Physics, Aspen, CO. Organizer.

Professional Organizations

American Astronomical Society – Full Member
International Astronomical Union – Individual Member
Heterodox Academy – Member
Sigma Pi Sigma Physics Honor Society – Member