

George C. Privon

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Current Position

Prize Postdoctoral Fellow, Department of Astronomy, University of Florida,
Gainesville, FL, 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

Areas of Specialization

Formation and evolution of starburst and AGN host galaxies, single-dish and interferometric radio/mm/sub-mm observations of extragalactic sources (continuum and spectral line), dynamical modeling and N -body simulations of galaxy mergers, optical integral field spectroscopy

Research Positions Held

- 2017–present *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. Sponsor: Ezequiel Treister
- 2014 *Postdoctoral Research Fellow*, Departamento de Astronomía, Universidad de Concepción, Concepción, Chile. Mentor: Ezequiel Treister
- 2010–2014 *Graduate Research Assistant*, Department of Astronomy, University of Virginia, Charlottesville, VA, USA. Advisor: Aaron Evans
- 2013 *Visiting Graduate Student Research Fellow*, Infrared Processing and Analysis Center, California Institute of Technology, Pasadena, CA, USA. Advisor: Joe Mazzarella

- 2007–2010 *Graduate Researcher*, Department of Astronomy, University of Virginia, Charlottesville, VA, USA. Advisor: Mark Whittle
- 2007 *Summer Student*, Netherlands Institute for Radio Astronomy (ASTRON), Dwingeloo, Netherlands. Advisor: Raffaella Morganti
- 2006–2007 *Graduate Research Assistant*, Astrophysics Group / Center for Imaging Science, Rochester Institute of Technology. Advisor: Stefi Baum
- 2005–2006 *Undergraduate Research Assistant*, Astrophysics Group / Physics Department, Rochester Institute of Technology. Advisor: Chris O’Dea
- 2005–2007 *Volunteer Observer*, Rochester Institute of Technology Observatory

Grants, Honors, and Awards

- 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.
- 2002–2006 Rochester Institute of Technology Presidential Scholarship
- 2000 Eagle Scout Rank–Boy Scouts of America

Publications

Journal articles (as first or second author)

- 12 “The Molecular Gas and Dust Properties of Galaxies in the Great Observatories All-sky LIRG Survey”
R. Herrero-Illana, **G. C. Privon**, et al. *submitted to A&A on 14 August 2018; manuscript available upon request*
- 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](https://arxiv.org/abs/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-Sanchez, 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”
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](#)
- 4 “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)

- 40 “Star-forming Clumps in Local Luminous Infrared Galaxies”
K. L. Larson, T. Díaz-Santos, L. Armus, **G. 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. *submitted to AAS Journals*.
- 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 *Accepted for publication in the Astrophysical Journal* [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, Dimitra Rigopoulou, Paul P. van der Werf, Jiasheng Huang, Zhong Wang, Aaron S. Evans, David B. Sanders. 2018, *ApJ*, 864, 38. [arXiv:1807.05681](https://arxiv.org/abs/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](https://arxiv.org/abs/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 Conditions 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. Varenius, 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 Emission 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. Mazzarella, 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 Charmandaris, Yu Gao, Paul P. van der Werf, **George C. Privon**, Hanae Inami, 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](#)
- 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](#)
- 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](#)
- 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](#)
- 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](#)
- 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](#)
- 11 “Near infrared spectroscopy of the type IIIn 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](#)
- 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](#)
- 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](#)
- 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](#)
- 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

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](#)

White Papers

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](#)

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 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), 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 (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

- 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

- 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

- 2019–present Sean Burnette (undergraduate research), Search for radio relics in IR-selected galaxies. University of Florida
- 2018–present John Della Costa (undergraduate research), High-resolution spectroscopy of elliptical galaxies. University of Florida.
- 2018–present Desmond Jeff (MS project), “Star Clusters and ISM Properties from MUSE IFU Observations of the LIRG IC 214”. University of Florida.
- 2018–present Brian Denz (undergraduate research), “Interactive Visualization of Archival Galaxy Observations”. University of Florida.
- 2018–present Jensen Kaplan (undergraduate research), “Machine Learning and Classification of Infrared Galaxies”. University of Florida.

- 2018–present 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–present 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.
- 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.

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 and Departmental Service

- 2018–present University Multicultural Mentor Program, University of Florida. Mentor to a first-year undergraduate in the College of Liberal Arts and Sciences.
- Scientific referee for the *Astrophysical Journal*, *Astronomical Journal*, *Astrophysical Journal Letters*, *Monthly Notices of the Royal Astronomical Society*
- 2018–present Co-organizer, Twice-weekly Journal Club, Department of Astronomy, University of Florida
- 2017 ALMA Time Allocation Committee, 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

- 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.

Other Service

- 2012–2014 University of Virginia Sexual Misconduct Board, student member
- 2009–2012 Astronomy Department Representative to UVa Graduate School of Arts and Sciences Council. Positions held:

2012 Vice President of Communications
2011–2012 First Vice President
2010–2011 Second Vice President
2009–2012 Member of the Research Committee. Duties included planning and executing the annual student-run Robert J. Huskey Research Exhibition, which showcases graduate student research at the University of Virginia.

Professional Organizations

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