

# Jason Glenn, Ph.D.

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Professor of Astrophysics, University of Colorado Boulder (CU)

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## I. Educational Background

Undergraduate: University of New Mexico, B.S. Physics, 1992  
Graduate: University of Arizona, Ph.D. Astronomy, 1997

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## II. Career

### II.a. Research

- *Observational studies* of star-forming galaxies at high redshift and the cool interstellar medium in nearby galaxies and the Milky Way
- *Astrophysical instrumentation* at submillimeter and millimeter wavelengths with instruments deployed for ground-based and space-based observatories; kinetic induction detector development, cryogenics, optics, electronics, systems engineering, computing,
- *Research management roles*: PI, Galaxy Evolution Probe concept study (2016); CCAT Project Scientist (2011-2013); Co-PI, MUSIC sub/millimeter camera (2007-2014); Co-PI, Bolocam millimeter-wave bolometer camera (2000 – 2009); Co-PI, Z-Spec – millimeter wave direct-detection spectrometer (2001 – 2011); Co-I, SPIRE instrument onboard Herschel Space Observatory (2003 – 2013); PI/Co-PI, Bolocam Galactic Plane Survey (2006 – 2015)

### II.b. Professional Employment History

Professor of Astrophysics, University of Colorado	2012-present
Visiting Scientist, NIST Boulder	2017
Visiting Scientist, JPL and IPAC	2016
Director, CU Center for Astrophysics and Space Astronomy	2013-2016
CCAT Project Scientist	2011-2013
Associate Professor of Astrophysics, University of Colorado	2006-2012
Visiting Associate Professor of Astronomy, Cornell University	2006/2007
Assistant Professor of Astrophysics, University of Colorado	2000-2006
Fellow, Center for Astrophysics and Space Astronomy	2000-present
Postdoctoral Scholar in Physics, California Institute of Technology	1997-1999
Research and Teaching Assistant, University of Arizona	1992-1997

Research Assistant, Los Alamos National Laboratory  
Optical Engineering Aide, Lentec, Inc.

1991-1992  
1989-1990

## II.c. Teaching

- Introductory astronomy; upper-division undergraduate astrophysics, cosmology and relativity; undergraduate and graduate astronomical instrumentation and detectors; graduate interstellar medium; undergraduate scientific computing
- Undergraduate, graduate, and postdoctoral student training

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## III. Fellowships and Awards Received

- CU College Scholar Award, 2016-2017
- NASA Group Achievement Award, *Herschel* SPIRE Integration and Test Team, 2010
- NASA Group Achievement Award, *Herschel* SPIRE Development Team, 2010
- CRCW Faculty Fellowship, University of Colorado, 2006-2007
- NSF CAREER award, 2003-2008
- University of Chicago Fermi/McCormick Postdoctoral Fellowship, 1997, declined
- NASA Graduate Student Researchers Program Fellowship 1994-1997
- New Mexico Space Grant Consortium Fellowship 1990-1991
- University of New Mexico Presidential Scholarship 1986-1990

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## IV. Teaching Accomplishments

### IV.a. Courses Taught & Instruction Related

- New courses developed or significantly revamped
  - Astronomy 2600 : Scientific Computing, Fall 2013
  - Astronomy 3560 : Astronomical Instrumentation ; Fall 2015
- Astronomy 1020: Introductory Astronomy 2—Fall 2000, Spring 2001, Fall 2001, Fall 2002, Fall 2003, Fall 2005, Spring 2006, Fall 2011
- Astronomy 1120: General Astronomy: Stars and Galaxies—Fall 2004, Fall 2007
- Astronomy 1200 : Stars and Galaxies—Fall 2012
- Astronomy 2600 : Scientific Computing—Fall 2013, Fall 2014
- Astronomy 3730: Astrophysics I—Fall 2008, Fall 2009, Fall 2010
- Astronomy 3740: Cosmology and Relativity—Spring 2002, Spring 2003
- Astronomy 3830: Astrophysics II—Spring 2008, Spring 2010
- Astronomy 5700: Space Mission Concept Development Red Team proposal reviewer, Fall 2015
- Astronomy 5740: Interstellar Astrophysics—Spring 2004, Spring 2011
- Astronomy 5760: Astronomical Instrumentation—Spring 2005, Spring 2011
- Astronomy 6000: Seminar in Astronomical Detectors, Spring 2015
- Installation of Hyper-Interactive Teaching Technology “Clickers” in the Fiske Planetarium 2004 for instruction and outreach
- Institution of a new course in Scientific Computing, ASTR 2800
- Revised Graduate core curriculum, 2008-2009

- Revised Graduate Comprehensive Exam I, 2009-2010
- Undergraduate mentor, 2010-2011, 2014/2015

#### **IV.b. Students Advised**

##### **Graduate Students** (in chronological order)

- Benjamin Knowles: Astrophysics, Master's thesis on astronomical image processing with large-format millimeter-wavelength arrays
- Glenn Laurent: Astrophysics, Ph.D. 2005 dissertation on detection of high-redshift, dusty, star-forming galaxies
- Remy Fourre: Astrophysics, engineer who returned to industry after 1 year, variability of masers in AGB stars
- Lieko Earle: Physics, Ph.D. 2008, dissertation on instrument development for millimeter-wave spectroscopy of galaxies
- James Schlaerth: Physics, Ph.D. 2010, research on surveys for high-redshift galaxies and development of a camera utilizing microwave kinetic inductance detectors (MKIDs)
- Timothy Ellsworth-Bowers: Astrophysics, Ph.D. 2015, star-forming molecular clouds in the Milky Way (Bolocam Galactic Plane Survey)
- Julia Kamenetzky: Astrophysics Ph.D. 2014, molecular gas conditions in high-star-formation-rate galaxies
- Amandeep Gill: Astrophysics, M.S. 2013, millimeter-wave instrumentation, Google
- Jordan Wheeler: Astrophysics, millimeter-wave instrumentation and detectors
- Adalyn Fyhrie: Astrophysics, far-infrared astronomical detectors and spectroscopy
- Erika Zetterlund: Astrophysics, dense gas distribution in the Milky Way
- Samantha Walker: Astrophysics, millimeter-wave instrumentation and detectors

##### **Undergraduate Students Involved in Research** (in alphabetical order)

- Randol Aikin: Astrophysics, website and astronomical instrumentation development, senior Honors thesis defended 2006, graduate school Caltech, physics
- Clint Bockstiegel: Physics and Astrophysics, submillimeter/millimeter-wave instrumentation, graduate school UC Santa Barbara, physics
- Spencer Brugger: Electronics testing for Microwave Kinetic Inductance Detectors (MKIDs), lens design, 2010-2012, senior Honors thesis defended 2012
- Timothy Childers: Engineering Physics, astronomical instrumentation, 2017
- Michael Cook: Astrophysics, astronomical instrumentation, 2015 - 2016
- Stephen Crooks: Aerospace Engineering, 1 semester of general laboratory experience
- Christina Croy: Engineering, cryogenics development for senior project, graduated spring 2004, subsequently attended the Air Force Academy
- Olivia Koski: Engineering Physics, laboratory electronics, graduated spring 2003, Coherent Technologies, Inc.
- Ashleigh Lonis: CO in galaxies survey data compilation, 2012

- Jared Meeks: Astrophysics, measuring characteristics of molecular cloud clumps in the Milky Way, enrolled in Stanford Business School
- Luis Miaja-Avila: Physics, analysis of stellar MASER data, 2002-2003, subsequently accepted to graduate school in Physics at CU
- Bailey Nicole-Moyers: Website design, public outreach
- Shannon Osborne: Astrophysics, astronomical instrumentation, 2015 - 2016
- Allyssa Riley: Astrophysics, star-formation structure of the Milky Way, 2015 – 2016, Space Telescope Science Institute
- Patrick Stover: Computer Science, astronomy data analysis junior and senior years, Lockheed Martin
- Corey Wood: Astrophysics undergraduate

### **Postdocs and Senior Researchers (in alphabetical order)**

- Brooks Rownd: 2002 - 2005, instrument design, including electronics, optics, cryogenics, now a telescope operator / receiver engineer for the Smithsonian Astrophysical Observatory Submillimeter Array
- Dr. James Aguirre: Postdoc fall 2003 to fall 2005, millimeter-wave surveys of galaxy formation and instrument development, in fall 2005 he was awarded a *National Radio Astronomy Observatory Jansky Fellowship* to remain at CU for 3 years, Assistant Professor of Physics, University of Pennsylvania, June 2008 - present
- Dr. Alex Conley: SPIRE postdoc spring 2009 – summer 2015, far-infrared, high-redshift galaxy number counts, searches for  $z > 4$  star-forming galaxies, Markit on Demand
- Dr. Glenn Laurent: SPIRE postdoc spring 2006 – 2008, SPIRE instrument test and integration, science definition (galaxy formation), SPIRE mapping software team
- Dr. Phil Maloney: Senior researcher 2003-2005, observations and simulations of submillimeter galaxy surveys, interstellar medium in nearby galaxies, MKID Camera development 2008-2015
- Dr. Naseem Rangwala: SPIRE postdoc summer 2009 – 2013, observations and modeling of molecular gas in nearby galaxies

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## **V. Service Activities**

### **V.a. National-Level Committees & Service**

- NASA Far-Infrared Science Interest Group, 2015 - 2016
- Astro2010 (Decadal) Survey: Radio, Millimeter, and Submillimeter Programmatic Prioritization Panel, 2009-2010
- National Radio Astronomy Observatory committees
  - ALMA Development Program proposal reviewer 2012
  - VLA and VLBA observing proposal reviewer 2005-2006
  - ALMA North American Science Advisory Committee, 2003-2005
  - NRAO User's Committee, 1999-2002
- Scientific Conference Organizing Committees

- From Star Formation to Cosmology: Astrophysics with CCAT in the Next Decade (AAS special session), Jan. 2013
- High-z Galaxy Formation and Evolution: Submillimeter Observations with CCAT and a Multiwavelength Perspective, University of Colorado, Boulder, Sept. 2012
- Formation and Development of Molecular Clouds – prospects for high resolution spectroscopy with CCAT, University of Cologne, Germany, October 2011
- Unveiling the Far-IR and Sub-mm Extragalactic Universe: Herschel, ALMA, CCAT, SPICA, and Beyond, University of California, Irvine, May 2011
- The Submillimeter Universe, The CCAT View, Cornell University, 2010
- Session Chairman, SPIE conferences on Millimeter and Submillimeter Detectors for Astronomy 2002, 2009
- CCAT Spectroscopy Workshop, Boulder, May 2008
- AAS Galactic Plane Surveys special session, Winter 2008
- From Z-Machines to ALMA: (Sub)millimeter Spectroscopy of Galaxies 2005
- Proposal Reviewer/Panelist as needed
  - NSF
  - NASA
  - NASA Postdoctoral Program
  - Research Corporation
- Manuscript Referee
  - Astrophysical Journal
  - Astronomy and Astrophysics Journal
  - Monthly Notices of the Royal Astronomical Society
  - Journal of Applied Optics
  - Journal of Low Temperature Physics
  - Journal of Vacuum Science and Technology
- Caltech Submillimeter Observatory Time Allocation Committee 2003-2005

### **V.b. University of Colorado Astrophysics and Planetary Science (APS) Committees**

- APS Inclusive Excellence Committee (lead, 2016)
- APS faculty review (secondary on one portfolio, 2016)
- APS Climate Committee, (chairperson & founder, 2015-2016)
- CU Grand Challenge Steering Committee 2014-2015
- APS undergraduate student mentor 2015, 2016
- Teaching mentor for graduate instructors, 2015 (Youngblood 1200, Lloyd 2600)
- APS Strategic Hiring Plan committee 2012-2013
- CASA Executive Committee 2002-2005, 2010-2013
- APS Executive Committee 2005-2006, 2012-2013 (Undergraduate program liason 2012-2013), 2013-2014
- APS capital campaign (outreach and development) committee 2010-2015
- APS Program Review committee 2001-2002, 2009-2010
- APS department chairman search committee 2003, 2010-2011

- APS faculty search committee 2001-2002, 2002-2003, 2003-2004
- CASA Salary Review committee 2008, 2012, 2013
- APS comprehensive exam committee 2008-2009, 2009-2010, 2010-2011, 2011-2012, 2012-2013, 2013-2014 (chair 2009-2010, 2010-2011)
- APS graduate curriculum committee 2007-2008
- Apache Point ARC 3.5-m Telescope Time Allocation Committee 2004-2006
- APS undergraduate curriculum committee 2002-2003, 2004-2005 (chairman)
- APS graduate admissions committee 2001-2002, 2007-2008, Chairperson 2014-2015
- APS Labs and Observatories Committee 2000-2001, 2007-2008
- Computer Lab Future committee 2004-2005
- Dissertation committees (other than advisees)
  - 2016- : Greg Jaehnig (Physics)
  - 2016- : Wendeline Everett (Physics)
  - 2016-17: Allison Youngblood (Astrophysics)
  - 2016-17: Bang Nhan (Astrophysics)
  - 2014: Jason Henning, Daniel Becker (Physics)
  - 2013: Adam Ginsburg, Samuel Skillman (Astrophysics)
  - 2011: Amy Bender, Ben Braker, Ben Mates (Physics)
  - 2008: Charles Deitlein (Electrical and Computer Engineering)
  - 2007: Meredith Drosback (Astrophysics)
  - 2001: Aaron Lewis (Astrophysics)
- Comprehensive Exam III committees (Physics)
  - 2016: Greg Jaehnig
- Comprehensive Exam II committees
  - 2016: Jake Fish (Physics)
  - 2015: Roman Chapurin (Physics), Erika Zetterlund, Adalyn Fyhrie, Nick Kruczek
  - 2014: Jordan Wheeler
  - 2013: Wendeline Everett (chairman)
  - 2012: Allison Youngblood (chairman), Amandeep Gill
  - 2012: Ryan Ferguson
  - 2011: Jordan Mirocha, Dan Becker (Physics), Thomas Rogers
  - 2010: Tim Ellsworth-Bowers, Julia Kamenetzky
  - 2009: Adam Ginsburg, Cara Battersby, Jason Henning
  - 2005: Daniel Licht, Fred Hearty
  - 2004 Meredith Drosback, Katherina Kohler
- Senior honors thesis committees
  - 2015: Katherine Anne Suess, Allyssa Riley
  - 2012: Spencer Brugger (Physics)
  - 2011: Clint Bockstiegel (Physics), Sara Simon (Physics)
- Other graduate and undergraduate mentoring
  - 2016: Undergraduate Aerospace Engineering study of solar telescope, led by Erin Shimoda
  - 2016: Graduate MFA project mentor, Megan Gafford

- 2016: Career mentoring for Berthoud High School student Stuart Reckase

### **V.c. Outreach**

- Chautauqua public talk, “Discovering the Structure of the Milky Way Galaxy”, Boulder, CO, February 2016
- CU Saturday Physics series, “Revealing the Births of Stars and Galaxies with Infrared Astronomy”, Boulder, CO, January 2014
- CU Directors Club, “Revealing the Births of Stars and Galaxies with Infrared Astronomy”, Boulder, CO, January 2014
- CU Arts and Sciences Advisory Council, “Unveiling Galaxy Formation with Submillimeter Observations”, Boulder, CO, June 2013
- CU Academy for Lifelong Learning, “Unveiling Galaxy Formation in the Universe with Infrared Light” & “The Future: CCAT”, April 2013
- Coal Creek Elementary School, “Infrared Astronomy”, February 2013, Louisville, CO
- Judge, Coal Creek Elementary School science fair, January 2012, January 2013, January 2014
- Speaker/Panelist, Boulder Soul Food, Jewish congregation debate on the origin of the Universe and faith in science, Boulder, July 2012
- Press release: “Overfed black holes shut down galactic star-making, says new study involving CU-Boulder”, with Jim Scott (CU Boulder press office), May 2012
- Denver Astronomical Society, “Unveiling Galaxy Formation in the Early Universe with Herschel and CCAT”, April 2012
- Panelist, Beyond Boulder Careers in Academia, University of Colorado, Boulder, Feb. 2012
- Boulder Academy, “Using Infrared Light to Reveal Hidden Galaxies in the Early Universe”, October 2011, Boulder, CO
- Press release: “Furthest, Largest Water Mass in Universe Found, Says Study Involving Caltech, CU-Boulder”, with Jim Scott (CU Boulder press office), July 2011
- Coal Creek Elementary School, “Infrared Light and Galaxies”, March 2011, Louisville, CO
- Press release: “Telescope Project Involving CU-Boulder Selected as Top Priority for Construction”, with Prof. Jack Burns and Jim Scott (CU Boulder press office), August 2010
- Press release: “New European Space Telescope with CU-Boulder Connection Makes First Observations, Targets Nearby Galaxies”, with Jim Scott (CU Boulder press office), July 2009
- Press release: Signing of CCAT Interim Partnership Agreement, with Jim Scott (CU press office), May 2007
- Cherry Creek Country Club, Denver, CO, “CCAT: CU’s New Telescope Project”, April 2009
- APS Advisory Committee, “CCAT”, Spring 2008, Fall 2008
- Beverly J. Martin Elementary School, guest speaker, Ithaca, NY, 2007
- University of Colorado Fiske Planetarium, “Revealing Galaxy Formation in the Early Universe”, Spring 2006

- Colorado Springs Astronomical Society, “Submillimeter Searches for High-Redshift Galaxies”, August 2004
- New Vistas High School, Boulder, CO, “Astronomical Research: A Case History”, September 2005
- Sommers-Bausch Observatory faculty volunteer, 2000-2014

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## VI. Research Publications

### VI.a. Refereed Publications

(References not in print can be located with <http://adswww.harvard.edu/> or as indicated)

1. Kamenetzky, J., Rangwala, N., Glenn, J. “Warm and Cold Molecular Gas Conditions Modeled in 87 Galaxies Observed by the Herschel SPIRE Fourier Transform Spectrometer”, submitted to *ApJ*.
2. Zetterlund, E., Glenn, J., Rosolowsky, E. “A Galactic Molecular Cloud Clump Catalog from Hi-GAL Data: Method and Initial Results Comparison to BGPS”, *ApJ*, in press (2017).
3. Marchetti, L., Vaccari, M., Franceschini, A., Arumugam, V., Aussel, H., Béthermin, M., Bock, J., Boselli, A., Buat, V., Burgarella, D., Clements, D.L., Conley, A., Conversi, L., Cooray, A., Dowell, C.D., Farrah, D., Feltre, A., Glenn, J., Griffin, M., Hatziminaoglou, E., Heinis, S., Ibar, E., Ivison, R. J., Nguyen, H. T., O’Halloran, B., Oliver, S. J., Page, M. J., Papageorgiou, A., Pearson, C. P., Pérez-Fournon, I., Pohlen, M., Rigopoulou, D., Roseboom, I.G., Rowan-Robinson, M., Schulz, B., Scott, D., Seymour, N., Shupe, D.L., Smith, A. J., Symeonidis, M., Valtchanov, I., Viero, M., Wang, L., Wardlow, J., Xu, C.K., Zemcov, M. “The HerMES submillimetre local and low-redshift luminosity functions”, *MNRAS*, Vol. 456, pp. 1999-2023 (2016).
4. Fyhrie, A., Glenn, J., Wheeler, J., Day, P., Eom, B.H., LeDuc, H., and Skrutskie, M. “Towards Background-Limited Kinetic Inductance Detectors for a Cryogenic Far-Infrared Space Telescope”, *Jour. Low Temperature Physics*, 184:712, DOI 10.1007/s10909-016-1593-3 (2016).
5. Hailey-Dunsheath, S., Shirokoff, E., Barry, P.S., Bradford, C.M., Chapman, S., Che, G., Glenn, J., Hollister, M., Kovacs, A., LeDuc, H.G., Mauskopf, P., McKenney, C., O’Brien, R., Padin, S., Reck, T., Shiu, C., Tucker, C.E., Wheeler, J., Williamson, R., and Zmuidzinas, J. “Progress on SuperSpec: A Millimeter-Wave On-Chip Spectrometer”, *Jour. Low Temperature Physics*, DOI 10.1007/s10909-015-1375-x (2015).
6. Sayers, J., Zemcov, M., Glenn, J., Golwala, S.R., Maloney, P.R., Siegel, S.R., Wheeler, J., Bockstiegel, C., Brugger, S., Czakon, N.G., Day, P.K., Downes, T.P., Duan, R.P., Gao, J., Hollister, M.I., Lam, A., LeDuc, H.G., Mazin, B.A., McHugh, S.G., Miller, D.A., Mroczkowski, T.K., Noroozian, O., Nguyen, H.T., Radford, S.J., Schlaerth, J.A., Vayonakis, A., Wilson, P.R., and Zmuidzinas, J. “Peculiar Velocity Constraints from Five-Band SZ Effect Measurements Towards RX J1347.5-1145 with MUSIC and Bolocam from the CSO”, *ApJ*, Vol. 820, 101, 13 pp. (2016).
7. Kamenetzky, J., Rangwala, N., Glenn, J., Maloney, P.R., and Conley, A. “L’CO/LFIR Relations with CO Rotational Ladders of Galaxies Across the Herschel SPIRE Archive”, *ApJ*, Vol. 829, 93 16 pp. (2016).



8. Svoboda, B., Shirley, Y., Battersby, C., Rosolowsky, E.W., Ginsburg, A.G., Ellsworth-Bowers, T.P., Pestalozzi, M.R., Dunham, M.K., Evans, N.J. II, Bally, J., Glenn, J. "The Bolocam Galactic Plane Survey. XIV. Physical Properties of Massive Starless and Star-Forming Clumps", *ApJ*, Vol. 822, 59-32 pp. (2016).
9. Asboth, V., Conley, A., Sayers, J., Bethermin, M., Chapman, S. C., Clements, D. L., Cooray, A., Dannerbauer, H., Farrah, D.; Glenn, J., Golwala, S. R., Halpern, M., Ibar, E., Ivison, R. J., Maloney, P. R., Marques-Chaves, R., Martinez-Navajas, P. I., Oliver, S. J., Perez-Fournon, I., Riechers, D. A., Rowan-Robinson, M., Scott, D., Siegel, S. R., Vieira, J. D., Viero, M., Wang, L., Wardlow, J., Wheeler, J. "HerMES: A search for high-redshift dusty galaxies in the HerMES Large Mode Survey - catalogue, number counts, and early results", *MNRAS*, Vol. 462, pp. 1989-2000 (2016).
10. Glenn, J., Rangwala, N., Maloney, P.R., and Kamenetzky, J.R. "NGC 1266: Characterization of the Nuclear Molecular Gas in an Unusual SB0 Galaxy", *ApJ*, Vol. 800, article id. 105G, 12 pp. (2015).
11. Ellsworth-Bowers, T.P., Glenn, J., Riley, A., Rosolowsky, E., Ginsburg, A., Evans, N.J. II, Bally, J., Battersby, C., Shirley, Y.L., and Merello, M. "The Bolocam Galactic Plane Survey. XIII. Physical Properties and Mass Functions of Dense Molecular Cloud Structures", *ApJ*, Vol. 805, article id. 157E, 29 pp. (2015).
12. Rangwala, N., Maloney, P., Wilson, C., Glenn, J., Kamenetzky, J., Spinoglio, L. "Morphology and Kinematics of Warm Molecular Gas in the Nuclear Region of Arp 220 as Revealed by ALMA", *ApJ*, Vol. 806, article id. 17R, 10 pp. (2015).
13. Ellsworth-Bowers, T.P., Rosolowsky, E., Glenn, J., Ginsburg, A., Evans, N.J. II, Battersby, C., Shirley, Y.L., Svoboda, B. "The Bolocam Galactic Plane Survey. XII. Distance Catalog Expansion Using Kinematic Isolation of Dense Molecular Cloud Structures with  $^{13}\text{CO}(1-0)$ ", *ApJ*, Vol. 799, article id. 29, 25 pp. (2015).
14. Wu, R., Madden, S., Galliano, F., Wilson, C.D., Kamenetzky, J., Lee, M.-Y., Schirm, M., Hony, S., Lebouteiller, V., Spinoglio, L., Cormier, D., Glenn, J., Maloney, P.R., Pereira-Santaella, M., Rémy-Ruyer, A., Baes, M., Boselli, A., Bournaud, F., De Looze, I., Hughes, T.M., Panuzzo, P., Rangwala, N. "Spatially resolved physical conditions of molecular gas and potential star formation tracers in M83, revealed by the Herschel SPIRE FTS", *A&A*, Vol. 575, id. A88, 28 pp. (2015).
15. Kamenetzky, J., Rangwala, N., Glenn, J., Maloney, P.R., Conley, A. "A Survey of the Molecular ISM Properties of Nearby Galaxies Using the Herschel FTS", *ApJ*, Vol. 795, article id. 174, 39 pp. (2014).
16. Wilson, C.D., Rangwala, N., Glenn, J., Maloney, P.R., Spinoglio, L., Pereira-Santaella, M. "Extreme Dust Disks in Arp 220 as Revealed by ALMA", *ApJ*, Vol. 789, article id. L36, 5 pp. (2014).
17. Rangwala, N., Maloney, P.R., Glenn, J., Wilson, C.D., Kamenetzky, J., Schirm, M.R.P., Spinoglio, L., Pereira-Santaella, M. "First Extragalactic Detection of Submillimeter CH Rotational Lines from the Herschel Space Observatory", *ApJ*, Vol. 788, article id. 147, 9 pp. (2014).
18. Viero, M. P., Asboth, V., Roseboom, I. G., Monceli, L., Marsden, G., Mentuch Cooper, E., Zemcov, M., Addison, G., Baker, A. J., Beelen, A., Bock, J., Bridge, C., Conley, A., Devlin, M. J., Doré, O., Farrah, D., Finkelstein, S., Font-Ribera, A., Geach, J. E., Gebhardt, K., Gill, A., Glenn, J., Hajian, A., Halpern, M., Jogee, S., Kurczynski, P., Lapi, A., Negrello, M., Oliver, S. J., Papovich, C., Quadri, R., Ross, N., Scott, D., Schulz, B., Somerville, R.,

- Spergel, D. N., Vieira, J. D., Wang, L., Wechsler, R. “The Herschel Stripe 82 Survey (HerS): Maps and Early Catalog”, *ApJS*, Vol. 210, article id 22, 9 pp. (2014).
19. Schirm, M. R. P., Wilson, C. D., Parkin, T. J., Kamenetzky, J., Glenn, J., Rangwala, N., Spinoglio, L., Pereira-Santaella, M., Baes, M., Barlow, M. J., Clements, D. L., Cooray, A., De Looze, I., Karczewski, O. Ł., Madden, S. C., Rémy-Ruyer, A., Wu, R. “Herschel-SPIRE Fourier Transform Spectrometer Observations of Excited CO and [CI] in the Antennae (NGC4038/39): Warm and Cold Molecular Gas”, *ApJ*, Vol. 781, article id 101, 24 pp. (2014).
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#### **VI.b. Books Edited**

1. "From Z-Machines to ALMA: (Sub)Millimeter Spectroscopy of Galaxies", proc. of conf. *From Z-Machines to ALMA: (Sub)Millimeter Spectroscopy of Galaxies*, ASP Conf. Series Vol. 375, Eds. A.J. Baker, J. Glenn, A.I. Harris, J.G. Mangum, & M.S. Yun, 2007.

#### **VI.c. Books Reviewed**

1. "TeraHertz Astronomy", Chris Walker, 2014 – 2015.
2. Book proposal review, "Detection of Light", 2<sup>nd</sup> ed., George Rieke, Cambridge University Press, 2014.
3. "Measuring the Universe", George Rieke, Cambridge University Press, 2012.

#### **VI.d. Conference Proceedings and Other Papers (Jour. Low Temp. Phys. are refereed)**

1. Fyhrie, A., McKenney, C., Glenn, J., LeDuc, H.G., Gao, J., Day, P., Zmuidzinas, J. "Responsivity boosting in FIR TiN LEKIDs using phonon recycling: simulations and array design", *Proceedings of the SPIE*, Vol. 9914, doi: 10.1117/12.2231476, 7 pp. (2016).
2. Glenn, J., Fyhrie, A., Wheeler, J., Day, P.K., Eom, B.H., Leduc, H.G. "Low-volume aluminum and aluminum / titanium nitride bilayer lumped-element kinetic inductance detectors for far-infrared astronomy", *Proceedings of the SPIE*, Vol. 9914, doi: 10.1117/12.2233649, 8 pp. (2016).
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#### **VI.e. White Papers**

1. “From Early Galaxies to Habitable Planets: The Science Case and Concept for a Far-Infrared Surveyor”, L. Armus, J. Bauer, D. Benford, E. Bergin, A. Bolatto, C.M. Bradford, C. Chen, N. Evans, D. Farrah, J. Glenn, P. Goldsmith, A. Harris, G. Helou, D. Leisawitz, D. Lis, P. Marcum, G. Melnick, S. Milam, L. Mundy, D. Neufeld, K. Pontoppidan, A. Pope, M. Rizzo, K. Sandstrom, K. Sheth, E. Wright., submitted to the NASA COPAG Analysis: Large Astrophysics Mission Concepts to Study for the 2020 Decadal Survey, July 2015, <http://conference.ipac.caltech.edu/firsurveyor/page/documents>.
2. CCAT Science Requirements Document, Glenn, J., Bertoldi, F., Carpenter, J., Golwala, S., Lis, D., Padin, S., Phillips, T., Plume, R., Schilke, P., & Stacey, G., January 20, 2012, [http://www.ccatobservatory.org/docs/pdfs/CCAT\\_Science\\_Requirements\\_R1.pdf](http://www.ccatobservatory.org/docs/pdfs/CCAT_Science_Requirements_R1.pdf)
3. Report of the Panel on Radio, Millimeter, and Submillimeter Astronomy from the Ground, New Worlds, New Horizons in Astronomy and Astrophysics (Decadal Survey), Evans, N.J. II, Moran, J.M., Brogan, C., Evans, A., Gibson, S., Glenn, J., Gnedin, N., Lang, C., McLaughlin, M., Morales, M., Page, L.A., Jr., Turner, J.L., & Wilner, D., [http://www.nap.edu/openbook.php?record\\_id=12982&page=503](http://www.nap.edu/openbook.php?record_id=12982&page=503)
4. Blain, A.W., Armus, L., Bertoldi, F., Bock, J., Bradford, M., Dowell, C.D., Glenn, J., Goldsmith, P., Harwit, M., Helou, G., Lester, D., Smith, J.D., Soifer, B.T., Stacey, G., Vieira, J., Yun, M., & Zmuidzinas, J., “A complete view of galaxy evolution: panchromatic luminosity functions and the generation of metals”, Science white paper, submitted to Astro2010: The A&A Decadal Survey, February, 2010 ([http://sites.nationalacademies.org/BPA/BPA\\_050603](http://sites.nationalacademies.org/BPA/BPA_050603)).
5. Carpenter, J., Bally, J., Enoch, M., Glenn, J., Goldsmith, P., Sargent, A., & Williams, J., “Fragmentation in Molecular Clouds and the Origin of the Stellar Initial Mass Function”, Science white paper, submitted to Astro2010: The A&A Decadal Survey, February, 2010 ([http://sites.nationalacademies.org/BPA/BPA\\_050603](http://sites.nationalacademies.org/BPA/BPA_050603)).
6. Stacey, G., Bertoldi, F., Blain, A.W., Bradford, C.M., Giovanelli, R., Glenn, J., Goldsmith, P., Golwala, S., Nikola, T., & Zmuidzinas, J., “Star Formation Through Cosmic Time: From Local Galaxies to the Early Universe”, Science white paper, submitted to Astro2010: The A&A Decadal Survey, February, 2010 ([http://sites.nationalacademies.org/BPA/BPA\\_050603](http://sites.nationalacademies.org/BPA/BPA_050603)).

#### **VI.f. Invited and Contributed Talks since January 2000**

(in reverse chronological order)

Carnegie Institute colloquium, “A Fresh Look at Molecular Gas in Galaxies”, Pasadena, CA, December 2016

Jet Propulsion Lab Astrophysics colloquium, “A Fresh Look at Molecular Gas in Galaxies”, Pasadena, CA, November 2016

University of Massachusetts astronomy colloquium, “A Fresh Look at Molecular Gas in Galaxies”, Amherst, MA, October 2016

Low Temperature Detectors (LTD 2016), “Toward Background-Limited Kinetic Inductance Detectors for a Cryogenic Far-Infrared Space Telescope”, Grenoble, France, July 2016

AAS, “Dense Molecular Gas in the 1<sup>st</sup> Quadrant”, Seattle, WA, January 2015

VLA Colloquium, “Toward a New Understanding of Molecular Gas in Galaxies”, Socorro, NM, September 2014

Berkeley Galaxies lunch talk, “A New Census of Molecular Gas in Galaxies”, University of California, April 2014

Kavli Institute for Theoretical Physics, Fire Down Below: The Impact of Feedback on Star and Galaxy Formation conference, “A New Census of Molecular Gas in Galaxies”, University of California Santa Barbara, April 2014

Aspen Center for Physics, “CCAT”, Aspen, CO, June 2013

Radio Astronomy in the Era of LSST, NRAO conference, “CCAT”, Charlottesville, VA, March 2013

AAS, CCAT Special Session, “Characterizing Dusty, Star-Forming Galaxies and High Redshifts”, January 2013, Long Beach, CA

JILA Colloquium, University of Colorado, “Unveiling Galaxy Formation in the Universe”, Boulder, CO, October 2012

SOFIA Colloquium, “Probing the Cosmic History of Star Formation in Galaxies with Herschel and CCAT”, April 2012, NASA Ames, Moffett Field, CA

Carnegie Observatories Colloquium, “Probing the Cosmic History of Star Formation in Galaxies with Herschel and CCAT”, February 2012, Pasadena, CA

University of Texas Astronomy Colloquium, “Probing the Cosmic History of Star Formation in Galaxies with Herschel and CCAT”, January 2012, Austin, TX

Colorado School of Mines Physics Colloquium, “Unveiling Galaxy Formation in the Universe”, November 2011, Golden, CO



Unveiling the Far-IR and Sub-mm Extragalactic Universe: Herschel, ALMA, CCAT, and Beyond conference, “High-z Astrophysics with CCAT”, University of California, Irvine, May 2011

University of Pennsylvania Physics Colloquium, “Early Results from the Herschel Space Observatory”, March 2011, Philadelphia, PA

Building on New Worlds, New Horizons: New Science from Sub-millimeter to Meter Wavelengths conference, “Astrophysics with CCAT”, March 2011, Santa Fe, NM

Ball Aerospace, “Observing Distant Galaxies with the Herschel Space Observatory and New Submillimeter Technology”, Boulder, CO, February 2011

Rocky Mountain Chapter of the Optical Society of America seminar, “Observing Distant Galaxies with the Herschel Space Observatory and New Submillimeter Technology”, Boulder, December, 2010

Stanford University Astrophysics Seminar, “Early Results from the Herschel Space Observatory”, Palo Alto, October, 2010

University of Colorado Astrophysics colloquium, “Early Results from the Herschel Space Observatory”, Boulder, August, 2010

AAS Herschel First Results special session, “Early Distant Universe Results from the Herschel Space Observatory”, Miami, May, 2010

Andrew E. Lange Memorial Symposium, “The Cornell Caltech Atacama Telescope”, Pasadena, May, 2010

Nation Radio Astronomy Observatory colloquium, “Present and Future: Broadband Submillimeter Imaging and Spectroscopic Galaxy Surveys”, Charlottesville, March, 2009

Thomas G. Phillips Submillimeter Astronomy Symposium, “Surveying Star Formation in the Galactic Plane with Bolocam”, Caltech, Pasadena, February, 2009

Caltech Future of Astrophysics Symposium, “The Cornell Caltech Atacama Telescope”, Pasadena, January, 2009

SPIE conference on Millimeter and Submillimeter Detectors and Instrumentation for Astronomy IV, “A microwave kinetic inductance camera for sub/millimeter astrophysics”, Marseille, June 2008, *contributed*

China-U.S. Bilateral Workshop on Radio Astronomy, “Astronomy at Submillimeter Wavelengths with the Cornell Caltech Atacama Telescope”, Beijing, April 2008

AAS Winter 2008, Austin, “Future Submillimeter Galactic Surveys”

SOFIA 2020 Vision workshop, Dec. 7, 2007, "Opportunities in Far-Infrared Spectroscopy with SOFIA", *contributed*

Colorado School of Mines Physics Colloquium, Oct. 15, 2007, "Probing the Growth of Massive Galaxies at High Redshifts with Sub/millimeter Surveys"

University of Colorado Astrophysics Colloquium, Sept. 17, 2007, "An Exciting Opportunity for Colorado for 21<sup>st</sup> Century Ground-Based Astronomy: The Cornell-Caltech (Colorado?) Atacama Telescope"

Rutgers, The State University of New Jersey, Astronomy Seminar, January 2007, "Probing the Growth of Massive Galaxies at High Redshifts with Sub/millimeter Surveys"

Stanford Physics/KIPAC Institute Colloquium, December 2006, "Probing the Growth of Massive Galaxies at High Redshifts with Sub/millimeter Surveys"

University of Virginia Astronomy Colloquium, November 2006, "Probing the Growth of Massive Galaxies at High Redshifts with Sub/millimeter Surveys"

Astronomical Society of New York, October 2006, "The Cornell-Caltech Atacama Telescope and Some Recent High Redshift Galaxy Results", *contributed*

Cornell University Colloquium, September 2006, "Probing the Growth of Massive Galaxies at High Redshifts with Sub/millimeter Surveys"

Conference: From Z-Machines to ALMA: Submillimeter Spectroscopy of Galaxies, January 2006, "Z-Spec: A Dispersive Millimeter-Wave Spectrometer", *contributed*

URSI Radio Science Meeting, January 2006, "Z-Spec: A Broadband Millimeter-Wave Spectrometer", *contributed*

APS Four Corners meeting, October 2005, "Using Millimeter Wavelength Observations to Probe Galaxy Formation"

URSI Radio Science Meeting, January 2005, "Bolocam Optical Design and Science Results", *contributed*

Conference on New Windows on Star Formation in the Cosmos, University of Maryland, October 2004, "Dust-Obscured Star Formation: Submillimeter Galaxies", *contributed*

URSI Radio Science Meeting, January 2004, 1) "Bolocam: A Large-Format, Millimeter-Wave Bolometer Array Camera for Astrophysics" & 2) "Submillimeter Galaxies", *contributed*

Workshop on Cosmology with Sunyaev-Zel'dovich Cluster Surveys, University of Chicago, October 2003, "Bolocam Observations of the Sunyaev-Zel'dovich Effect", *contributed*

Workshop on Measuring Redshifts with the Green Bank Telescope, September 2003, “Z-Spec: A Compact Millimeter-Wave Spectrometer—Measuring the Redshifts of Submillimeter Galaxies”

University of Arizona, Astronomy Dept., April 2003: “Probing the High-Redshift Universe with Millimeter-Wave Surveys for Galaxies and Clusters”

University of California, Berkeley, Radio Astronomy talk series, February 2003: “Millimeter-Wave Surveys for Galaxies: Bolocam and Z-Spec”

University of Wyoming, Physics and Astronomy Dept., November 2002, “Probing Galaxy Formation at High Redshift: Millimeter-Wave Surveys for Galaxies with Bolocam and Z-Spec”

SPIE Conference on Millimeter and Submillimeter Detectors for Astronomy, August 2002, “Current Status of Bolocam: a large-format millimeter-wave bolometer camera”, *contributed*

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## **VII. Hobby**

Triathlon, including three age-group victories and several additional podium finishes in short-course triathlons and running races, seven Ironman triathlon finishes, two-time qualification for age-group national championships in Olympic-distance triathlon, Ironman All World status 2015