

– CAITLIN MERYL CASEY –  
CURRICULUM VITAE

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## EDUCATION

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**University of Cambridge – Ph.D.** in Astronomy, 2010

Institute of Astronomy, St John’s College, Supervisor: Prof. Scott Chapman

PhD Thesis: *Characterising Ultraluminous Infrared Galaxies in the Early Universe*

(received in congregation 23 July 2011)

**University of Arizona – B.S.** in Physics, Astronomy, and Mathematics, 2007

Graduation Summa Cum Laude with Honors, Supervisor: Prof. Chris Impey

Senior Thesis: *Optical Selection of Faint AGN in the COSMOS Field*

## PROFESSIONAL APPOINTMENTS

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2015 – PRESENT	Assistant Professor, Department of Astronomy, University of Texas at Austin
2013 – 2015	McCue Fellow of Cosmology, University of California, Irvine
2010 – 2013	Hubble Postdoctoral Fellow, Institute for Astronomy, University of Hawai’i at Mānoa
2007 – 2010	Gates Cambridge Scholar, Institute of Astronomy, University of Cambridge

## RESEARCH INTERESTS

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Dusty starburst galaxies, infrared and submillimeter observations, galaxy mergers, star formation across cosmic time, black hole growth, large scale structure, formation of massive galaxy clusters.

## GRANTS, AWARDS & HONORS

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**External Funding Administered at UT Austin to-date:** \$1,175,480      **Total PI Awards:** \$1,313,308

<b>Grants:</b>	NASA <i>Hubble Space Telescope</i> General Observer Grant, Cycle 27, 2019	TBD (PI)
	<i>Rest-frame UV/optical Morphologies of Obscured Radio Starbursts: Comparing Obscured and Unobscured Star-Formation on kpc Scales</i>	
	NASA Keck Solicitation Observing Grant for MOSFIRE, 2019A	\$10,625 (Co-I)
	<i>Spectroscopic Characterization of 3 mm Selected IRAC Galaxies</i> (PI: Jorge Zavala; Postdoc-led program in Casey group)	
	Cottrell Scholar Award, Research Corporation for Science Advancement	\$100,000 (PI)
	Sponsored by IF/THEN, an initiative of Lyda Hill Philanthropies	
	<i>Diverse Perspectives: the Impact of Dust and Gas on Cosmic History and Equity-Minded Inquiry-based Astronomy</i>	
	NASA SOFIA General Observer Grant, Cycle 7, 2019	\$108,900 (PI)
	<i>Precision Cosmology with SOFIA: Characterizing the Dust Emission in Nearby Supernovae Type Ia Host Galaxies</i>	
	NSF Astronomy & Astrophysics Grant, 2018	\$332,534 (PI)
	<i>Dust Obscuration Towards the Epoch of Reionization</i>	
	NASA <i>Hubble Space Telescope</i> General Observer Grant, Cycle 25, 2017	\$155,372 (PI)
	<i>The environments of <math>6 &lt; z &lt; 7</math> quasars: rich with starbursts?</i>	

<b>Grants:</b>	NSF Astronomy & Astrophysics Grant, 2017	\$152,189 (PI)
<b>(cont.)</b>	<i>The Morphology of Dust-Obscured Starbursts: the e-MERLIN SuperCLASS Legacy Survey</i>	
	NASA Keck Solicitation Observing Grant for MOSFIRE, 2017A	\$10,075 (PI)
	<i>Submillimeter-bright <math>z &gt; 2</math> Protoclusters as Beacons of Rapid Cluster Formation</i>	
	NRAO next generation VLA Community Studies Program, 2016	\$16,086 (PI)
	<i>Cold Gas in the Early Universe</i>	
	TAURUS HornRaiser Fundraising campaign, 2016	\$10,265 (PI)
	<i>Promoting Inclusion and STEMming Attrition in Astrophysics</i>	
	NASA Astrophysics Data Analysis Program, 2016	\$44,387 (PI)
	<i>Stellar Masses for thousands of <math>z &gt; 1</math> resolved, dusty starbursts</i>	
	Spitzer Space Telescope Cycle 12 Program, 2015	\$10,000 (PI)
	<i>SuperCLASS: Stellar Masses for thousands of <math>z &gt; 1</math> resolved, dusty starbursts</i>	
	Cox Endowment Fund Award, 2015	\$30,000 (PI)
	<i>TAURUS: A Pilot REU Program for UT Astronomy</i>	
	NASA Keck Solicitation Observing Grant for MOSFIRE, 2013B	\$13,500 (PI)
	<i>An Unbiased MOSFIRE Spectroscopic Census of Luminous Dusty Starbursts</i>	
	NASA Hubble Postdoctoral Fellowship, 2010–2013	\$330,000 (PI*)
	<i>*Scientific PI: Taking Census of Extreme Starbursts in the Early Universe</i>	
	Overseas Research Grant Awardee, 2007–2010	£114,000
	St. John's College & Gates Cambridge Trust Travel/Research Grants, 2007–2010	£6,000 (PI)
<b>Awards/Honors:</b>	Cottrell Scholar Award	2019
	<i>Awarded to Early Career Teacher-Scholars by the Research Corporation for Science Advancement, Lyda Hill Philanthropies</i>	
	Newton Lacy Pierce Prize	2018
	<i>Awarded for Outstanding Achievements in Observational Astronomy before age 36 by the American Astronomical Society</i>	
	Natural Sciences Council Faculty Service Award	2017–2018
	<i>Award granted by undergraduates on behalf of outstanding dedication of faculty to enhancing the academic experience of the students they teach</i>	
	Board of Visitors Teaching Excellence Award	2017
	The University of Texas at Austin Department of Astronomy	
	Severo Ochoa Excellence Visitor, Instituto de Astrofísica de Canarias	2017
	Senior Researcher Visitor Program Awarded by the Spanish Government	
	NeXXt Scholars Mentoring Fellow	2013–2015
	New York Academy of Sciences & US Department of State	
	McCue Postdoctoral Fellowship of Cosmology	2013–2015
	University of California, Irvine	
	Hubble Postdoctoral Fellowship	2010–2013
	NASA & Space Telescope Science Institute	
	Gates Cambridge Scholar	2007–2010
	Bill & Melinda Gates Foundation & Cambridge Trusts	

<b>Awards/Honors:</b>	Elected President of Gates Cambridge Scholars	2008–2009
<b>(cont.)</b>	<i>Liaison between ~300 international graduate students, the Cambridge Trusts, the Board of Trustees, and the Bill &amp; Melinda Gates Foundation</i>	
	Goldwater Scholar	2006–2007
	Barry M. Goldwater Foundation	
	Purviance Scholar	2006, 2007
	Department of Astronomy / Steward Observatory, University of Arizona	
	George Gregson Scholar	2007
	Department of Physics, University of Arizona	
	Pillars of Excellence Scholar	2007
	Office of the President, University of Arizona	
	Member of Phi Beta Kappa	2005
	Alpha of Arizona	
	College of Science Ambassador	2005–2007
	College of Science, University of Arizona	
	Arizona Ambassador	2005–2006
	Office of Admissions, University of Arizona	

## MENTORSHIP

<b>Postdocs:</b>	Jorge Zavala, Postdoctoral Research Fellow at UT Austin	2017–PRESENT
	Justin Spilker, Harlan J. Smith Fellow at UT Austin	2017–PRESENT
	Chao-Ling Hung, Harlan J. Smith Fellow at UT Austin <i>(former faculty at Manhattan College, now a data scientist)</i>	2015–2017
<b>PhD Students:</b>	Jaclyn Champagne, UT Austin 4 <sup>th</sup> year graduate student	2016–PRESENT
	Patrick Drew, UT Austin 4 <sup>th</sup> year graduate student	2016–PRESENT
	Sinclair Manning, UT Austin 5 <sup>th</sup> year grad student (NSF grad fellow)	2015–PRESENT
	Yi-Kuan Chiang†, UT Austin graduate <i>(now postdoc at OSU)</i>	2015–16
	Yanxia Li*, IfA graduate student <i>(now data scientist)</i>	2012–13
	Chao-Ling Hung*, IfA graduate <i>(faculty to data scientist)</i>	2011–13
	Nick Lee*, IfA graduate <i>(DARK Copenhagen postdoc, data scientist)</i> * Served as postdoc advisor for grads advised by Prof. David Sanders † Served as secondary advisor for grad advised by Prof. Karl Gebhardt	2011–13
<b>Undergraduates:</b>	Anne Burnham, UT Austin undergraduate	2017–PRESENT
	Laney Wicker, UT Austin undergraduate <i>(now data scientist)</i>	2018–2019
	Aimee Schechter, UT Austin undergraduate <i>(now CU Boulder grad)</i>	2017–2019
	Richard Seifert, UT Austin undergraduate <i>(now UVA grad student)</i>	2017–2018
	Meghana Killi, UT Austin undergraduate <i>(now Copenhagen grad)</i>	2016–2017
	Jonathon Brown, MIT undergraduate & TAURUS Scholar	2017
	Julia Orenstein, UT Austin undergraduate	2017
	Pranav Nair, UT Austin undergraduate	2016
	Nicholas Timmons, UCI undergraduate <i>(now UCI grad student)</i>	2014–15
	Donald Trinh, UCI undergraduate	2014–15
	Erwin Medina, UCI undergraduate	2014
	Laura Yu, UCI undergraduate	2014
	Jamie Budynkiewicz, NSF REU student <i>(now CfA/SAO staff)</i>	2012
<b>Other Mentoring Experiences:</b>		
	• TAURUS Director and Mentoring Workshop Facilitator, UT Austin, 2016–PRESENT	
	• Research Mentor to high school students in HI-STAR summer program, UH Mānoa, June 2012	

- Research Mentor to 5 grade school students (grades 6–12) for science fair projects, 2012
- Telescope Operator/Camp Counselor, Advanced Teen Astronomy Camp, Univ. Arizona, 2005

## TEACHING

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**AST 307**, “Introductory Astronomy” 3 credits, Undergraduate Course, UT Austin

Spring 2019 – 31 students, Instructor Rating: 5.0/5.0

Spring 2018 – 65 students, Instructor Rating: 4.8/5.0

Spring 2017 – 75 students, Instructor Rating: 4.4/5.0

Fall 2016 – 80 students, Instructor Rating: 4.5/5.0

Spring 2016 – 58 students, Instructor Rating: 4.9/5.0

**AST 386c**, “Properties of Galaxies” 3 credits, Graduate Course, UT Austin

Fall 2018 – 6 students, Instructor Rating: 4.8/5.0

**AST 386**, “High-Redshift Galaxies” 3 credits, Graduate Course, UT Austin

Fall 2017 – 6 students, Instructor Rating: 4.7/5.0

**ASTR 735**, “Research Techniques” 2 credits, Graduate Level Course, UH Mānoa Institute for Astronomy

Spring 2012 – 12 students

**HNRS 195**, “Paladins Orientation Course” 1 credit, Undergraduate Freshman Honors Program, U. Arizona

Fall 2005 – 16 students

- *Selection Effects* Curriculum Design for the Institute for Science and Engineering Educators, TAURUS Scholars Summer Seminar, Summer 2016
- *Physics of Waves* Curriculum Design for the Institute for Science and Engineering Educators, Kapiolani Community College Summer Course, Summer 2013

### Excerpts from Teaching Evaluations:

- “*Dr. Casey is by far one of the best professors I’ve had while I’ve been at UT. She seems very excited to teach every class period. She encourages students and helps us be successful and listens to our ideas.*” – Fall 2016
- “*Best science course I’ve taken at UT. I was hesitant to take it but I’m very glad I stuck with it. Definitely taking another astro course. The overall structure of the course was pretty straightforward and Casey’s lectures themselves were engrossing– you can measure by how fast a 75 minute lectures flies by. Good mix of concepts and cold hard math.*” – Fall 2016
- “*This is the best class I’ve taken at UT. I loved the course material. The power points and lectures were extremely well put together. The homeworks were never too difficult, but Dr. Casey was always available to ask for help. She is a great professor, and cared about her students as people too.*” – Spring 2016

## SERVICE

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### Leadership:

PI of the COSMOS collaboration (2018–PRESENT)

Scientific Steering Committee, COSMOS collaboration (2015–PRESENT)

Scientific Advisory Committee, Next Generation Very Large Array (2016–PRESENT)

Faculty Advisory Council for the Institute for Scientist and Engineer Educators (ISEE), (2019–PRESENT)

Science Working Group Leader, Next Generation Very Large Array (2014–2016)

### Reviews:

Referee for *Science*, *Nature*, the *Astrophysical Journal*, *Monthly Notices of the Royal Astronomical Society*, and *Astronomy & Astrophysics* (since 2010).

External Reviewer for the Millennium Science Initiative, Ministry of Economy - Chile (2016–2017)

Member of Atacama Large Millimeter Array time allocation committee (2015, 2016, 2018)

Member of Hubble Fellows Selection Committee (2016, 2018)

Member of NRAO telescope allocation committee (2015–2016)

External Reviewer for Canada TAC (2015)

External Reviewer for the Natural Sciences and Engineering Research Council of Canada (NSERC, 2015)  
Member of *Hubble Space Telescope* Cycle 19 & 22 Time Allocation Committees (2011, 2014)  
NSF Review Panel Member (2014)  
*Spitzer Space Telescope* Extragalactic Science Panel (2012)  
UH/IfA Mauna Kea Time Allocation Committee (2011–2012)  
James Clerk Maxwell Telescope UK Time Allocation Group Member (2011–2013)

#### **Scientific Organizing Committees:**

COSMOS Team Meetings, 2019–PRESENT  
“Astrophysical Frontiers in the Next Decade and Beyond: Planets, Galaxies, Black Holes, and the Transient Universe”, SOC Co-Chair, Portland, OR (2018)  
“Developing the ngVLA Science Program Workshop,” NRAO Socorro, NM (2017)  
Aspen Center for Physics Summer Workshop: “New Frontiers in Far–Infrared and Sub-millimeter Astronomy” (2016)  
“South by High Redshift,” Austin, TX (2015)  
Aspen Center for Physics Summer Workshop: “The Obscured Universe: Dust and Gas in Distant Starburst Galaxies” (2013)  
COSMOS infrared/submillimeter workshop organiser at UH/IfA (2012)

#### **Internal Service Committees:**

UT Austin BeVocal Faculty Advisory Board (2018–PRESENT)  
UT Austin College of Natural Sciences (CNS) Diversity & Inclusion Committee (2017–PRESENT)  
Curriculum Redesign Committee, UT Austin Astronomy (2018–PRESENT)  
Undergraduate Studies Committee, UT Austin Astronomy (2016–PRESENT)  
21<sup>st</sup> Century Curriculum and Implementation Committee, UT Austin CNS (2016–2017)  
Colloquium Organizer, UT Austin Astronomy (2015–2017)  
PhD Students thesis committees:  
Intae Jung, Sinclaire Manning, Sydney Sherman, Jonathan Flores, Rebecca Tippens, Briana Indahl  
Rebecca Larson, Boyuan Liu, Dustin Davis  
External examiner for: Nina Bonaventura (2017, McGill University, supervisor: Tracy Webb)  
Anshu Gupta (2018, Australia National University, supervisor: Lisa Kewley)  
Graduate Admissions Committee and Recruiting Committee, UT Austin (2015–2016)  
UH/IfA Graduate Admissions Committee (2012)  
UH/IfA “Astrocoffee” internal weekly seminar organizer (2011–2013)  
Cambridge/IOA Computing Advisory Committee Member (2008–2010)  
Cambridge/Gates Scholars Council, Internal Officer (2007–08) and President (2008–09)

### **EQUITY & INCLUSION EFFORTS**

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#### **Founder and Director of the TAURUS Summer Research Program, UT Austin, 2015–PRESENT**

The Texas Astronomy Undergraduate Research experience for Under-represented Students (TAURUS) is a 10-week summer research program for highly-motivated students from traditionally underserved backgrounds in astrophysics. Our aim is the retention of these students (who come to UT from all over the US) in STEM careers, with a particular focus on the advancement of Black, Latinx, and Native American students. Students are paired with professional research mentors and graduate student mentors, attend professional development activities, and take an observing trip to McDonald Observatory in west Texas, while they conduct their research and live on campus at UT Austin. There are 25 alumni of TAURUS spanning summers 2016–2019.

*Published a Guest piece about TAURUS in Scientific American, November 2017*

#### **Co-founded the Equity & Inclusion Discussion Group in the Astronomy Department, 2016–PRESENT**

Monthly discussions about social justice and equity and inclusion efforts in the astronomy department and

McDonald Observatory community. Co-founded by myself, graduate student Raquel Martinez and postdoc Brandon Bozek. Members read articles prior to meetings and they are discussed with a prioritization of more marginalized voices.

**Co-designed & Co-lead workshop on Impostor Syndrome at AAS Seattle, January 2015**

Impostor Syndrome workshop at AAS meeting primarily lead by Dr. Jessica Kirkpatrick, attended by over 300 astronomers. Workshop participants practiced articulating stereotype dialogues, and through voicing them, quieting them. Participants dissected how feelings of insecurity and impostor feelings disproportionately impact women and people of color in academia.

*Repeated at the Max Planck Institute for Astronomy in Heidelberg, May 2015*

**Co-designed & Co-lead ‘Diversity/Ethics’ Session at Aspen Center for Physics, June 2013**

Workshop, co-lead by Dr. Kartik Sheth, introduces participants to a set of scenarios that describe occurrences of research ethics violations, plagiarism, harassment, bullying, and other common academic phenomena. Participants must actively engage with scenarios and judge how they compare to other scenarios; a discussion of subtleties and points of view ensues. Participants become well-acquainted with concepts like stereotype threat, unconscious bias, impostor syndrome, harassment protocol, and bystander intervention.

*Published as an op-ed in Careers section of Nature magazine, Casey & Sheth, November 2013*

*Repeated at U. Arizona, Princeton, Workshop for Women in Science Australia, and U. Toledo 2014*

*at MPA Heidelberg 2015, and at Leiden Observatory 2016*

*at Women in Astronomy IV Conference, Austin, TX 2017*

*at the University of British Columbia, Vancouver, BC, 2018*

**PUBLIC OUTREACH & PRESS RELEASES**

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Invited Speaker, “Investigating our Cosmic Origins,” Hot Science Cool Talks, Environmental Science Institute, Austin, TX (2019)

Guest Speaker, “The Chaotic Life of Galaxy Clusters” Astronomy on Tap, Austin, TX (2018)

Guest Speaker, Science Philanthropy Alliance, “The Birth of Galaxies at Cosmic Dawn” (2018)

Guest Speaker, CNS Discovery Dinner, “Redesigning our curriculum through Backward Design” (2017)

Guest Speaker, “The Universe through many lenses” Tuesday Club, Austin Town & Gown Group (2017)

Guest Speaker, “Dust: The Great Cosmic Conspiracy” Astronomy on Tap, Austin, TX (2016)

Guest Speaker, Undergraduate Student Groups at UT Austin (2015-2016)

Guest Scientist Speaker, Santa Ana & Saddleback Public Schools, OC STEM Initiative (2014–2015)

Press: “New Census of Distant, Dusty Galaxies,” *Herschel*/ESA, Keck, and IfA/Hawaii (Dec 2012)

Guest Speaker, “Internationally Competitive Scholarships” U. Missouri (2012), U. Arizona (2014), UCI (2015)

Guest Speaker, “Intergalactic Trainwrecks” IfA Public Open House (2012)

Committee Member and Consultant, “Endless Skies” Planetarium Rehabilitation Project,

Columbia Public School District, Columbia, MO, USA (2011-2014)

Website Designer for “Endless Skies” Project, [www.cpsplanetarium.org](http://www.cpsplanetarium.org), Columbia, MO (2012-2013)

Guest Speaker, “Cosmic Conversations” University of Missouri Lecture Series (Sep 2010)

Website Designer and News Editor for the “Astropod,” [www.ast.cam.ac.uk/astropod](http://www.ast.cam.ac.uk/astropod),

the Institute of Astronomy Monthly Podcast, Cambridge (2008)

Press: “Ghost Remains after Black Hole Eruption,” *Chandra* Observatory (May 2009)

Press: “Stars Burst into Life in the Early Universe,” University of Cambridge,

and National Astronomy Meeting UK (Apr 2008)

Volunteer Judge, Arizona State Science Olympiad Competitions (2005-2007)

## SELECT INVITED TALKS (last five years)

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- Invited Review, ALMA2019 Science Meeting, Cagliari, Italy, Oct 2019
- Invited Colloquium, Colby College, Oct 2019
- Invited Colloquium, Yale University, Sep 2019
- Invited Review, IAU Symposium 352, Viana do Castelo, Portugal, Jun 2019
- Invited Talk, “Dusting the Universe,” University of Arizona, Tucson, AZ, Mar 2019
- Invited Talk, “Extremely Big Eyes on the Early Universe,” UCLA, Los Angeles, CA, Jan 2019
- Invited Newton Lacy Pierce Prize Plenary Lecture, 233<sup>rd</sup> Meeting of the American Astronomical Society, Seattle, WA, Jan 2019
- Invited Colloquium, University of Illinois at Urbana-Champaign, Urbana-Champaign, IL, Sep 2018
- Invited Colloquium, University of British Columbia, Vancouver, BC, Canada, Mar 2018
- Invited Colloquium, Case Western Reserve University, Cleveland, OH, Feb 2018
- Invited Colloquium, Space Telescope Science Institute/Johns Hopkins University, Baltimore, MD, Oct 2017
- Invited Colloquium, University of Missouri Kansas City, Kansas City, MO, Sep 2017
- Invited Talk, “20 years of SMGs,” Durham, UK, Aug 2017
- Invited Plenary Talk, 230<sup>th</sup> Meeting of the American Astronomical Society, Austin, TX, Jun 2017
- Invited Workshop Leader & Panelist, Women in Astronomy IV, Austin, TX, Jun 2017
- Invited Colloquium, Instituto de Astrofísica de Canarias, La Laguna, Spain, May 2017
- Invited Colloquium, Texas A&M University, College Station, TX, Jan 2017
- Invited Colloquium, Leiden University, Leiden, The Netherlands, Dec 2016
- Invited Colloquium, University of Massachusetts Amherst, Amherst, MA, Nov 2016
- Invited Colloquium, University of Connecticut, Mansfield, CT, Nov 2016
- Invited Colloquium, University of Texas San Antonio, San Antonio, TX, Oct 2016
- Invited Colloquium, Stanford, Kavli Institute for Particle Astrophysics, Palo Alto, CA, Sep 2016
- Invited Talk, “Cosmic dawn of galaxy formation,” Institut D’Astrophysique de Paris, France, June 2016
- Invited Talk, Cold Universe, Kavli Institute for Theoretical Physics, Santa Barbara, CA, May 2016
- Invited Colloquium, University of Washington, Seattle, WA, March 2016
- Invited Talk, Kavli Radio/Submm/mm Futures Meeting, Chicago, IL, December 2015
- Invited Colloquium, Caltech Astronomy, Pasadena, CA, December 2015
- Invited Colloquium, NRAO Socorro, NM, October 2015
- Invited Colloquium, Cavendish Astrophysics, Cambridge, UK, July 2015
- Invited Colloquium, Heidelberg Joint Astronomy Colloquium, Heidelberg, Germany, May 2015
- Invited Colloquium, Cal Poly Pomona, Pomona, CA, Mar 2015
- Invited Colloquium, San Diego State University, San Diego, CA, Feb 2015
- Invited Colloquium, University of Virginia/NRAO, Charlottesville, VA, Nov 2014
- Invited Colloquium, University of Toledo, Toledo, OH, Nov 2014
- Invited Colloquium, University of California, Los Angeles, Los Angeles, CA, Oct 2014
- Invited Colloquium, NASA Ames SOFIA Science Center, San Jose, CA, Oct 2014
- Invited Colloquium, University of California, Riverside, Riverside, CA, USA, Apr 2014
- Invited Colloquium, Carnegie Observatories, Pasadena, CA, USA, Apr 2014
- Invited Tea Talk, Caltech Astronomy Department, Pasadena, CA, USA, Mar 2014
- Invited Colloquium, Harvard Smithsonian Center for Astrophysics, Boston, MA, USA, Feb 2014

## PUBLICATIONS LIST

**STATISTICS:** (as of 10-Sep-2019, source: [NASA ADS](#))

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Number of Accepted Refereed Papers:	80	Total Citations:	3884
Number of First Authored Refereed Papers:	19	H-index:	34
Citations to First Authored Refereed Papers:	1114	Total citations/year:	819 (2018), 693 (2017) 554 (2016), 409 (2015)

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### FIVE MOST SIGNIFICANT PUBLICATIONS:

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1. **[Citations: 334] Caitlin M. Casey**, Desika Narayanan & Asantha Cooray. “Dusty Star-Forming Galaxies at High-Redshift.” Invited Review for Physics Reports, 2014, 514, 45
2. **[Citations: 155] Casey, C.M.** “Far-Infrared Spectral Energy Distribution Fitting for Galaxies Near and Far” 2012, MNRAS, 425, 3094
3. **[Citations: 101] Casey, C.M.**, Berta, S., Béthermin, M., Bock, J., Bridge, C., Budynkiewicz, J., Burgarella, D., Chapin, E., Chapman, S.C., Clements, D.L., Conley, A., Conclise, C., Cooray, A., Farrah, D., Hatziminaoglou, E., Ivison, R.J., Le Floc’h, E., Lutz, D., Magdis, G., Magnelli, B., Oliver, S.J., Page, M.J., Pozzi, F., Rigopoulou, D., Riguccini, L., Roseboom, I.G., Sanders, D.B., Scott, D., Seymour, N., Valtchanov, I., Vieira, J.D., Viero, M., Wardlow, J. “A Redshift Survey of *Herschel* far-infrared selected starbursts and implications for Cosmic Star Formation” 2012, ApJ, 761, 140
4. **[Citations: 95] Casey, Caitlin M.**, Chen, Chian-Chou, Cowie, Lennox L., Barger, Amy J., Capak, Peter, Ilbert, Olivier, Koss, Michael, Lee, Nicholas, Le Floc’h, Emeric, Sanders, David B., Williams, Jonathan P. “Deep 450 $\mu$ m and 850 $\mu$ m SCUBA-2 Observations in COSMOS” 2013, MNRAS, 436, 1919
5. **[Citations: 67] Casey, C.M.**, Scoville, N.Z., Sanders, D.B., Lee, N., Cooray, A., De Zotti, G., Farrah, D., Fu, H., Le Floc’h, E., Ilbert, O., Ivison, R.J., Takeuchi, T.T. “Are Dusty Galaxies Blue? Insights on UV Attenuation From Dust-Selected Galaxies.” 2014, ApJ, 796, 95

### OTHER FIRST-AUTHORED REFEREED PAPERS:

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1. **[Citations: NA] Casey, Caitlin M.**, Zavala, J.A., Aravena, M., Béthermin, M., Caputi, K.I., Champagne, J.B., Clements, D., Da Cunha, E., Drew, P., Finkelstein, S.L., Hayward, C., Kartaltepe, J.S., Knudsen, K., Magdis, G.E., Man, A., Manning, S.M., Scoville, N.Z., Sheth, K., Spilker, J., Staguhn, J., Talia, M., Taniguchi, Y., Toft, S., Treister, E., Yun, M. “Physical Characterization of an Unlensed Dusty Star-Forming Galaxy at  $z = 5.85$ .” 2019, ApJ submitted
2. **[Citations: 13] Casey, C.M.**, Hodge, J., Zavala, J., Spilker, J., Da Cunha, E., Hodge, J., Staguhn, J., Finkelstein, S., Drew, P. “An Analysis of ALMA Deep Fields and the Perceived Dearth of High- $z$  Galaxies” 2018, ApJ 862, 78
3. **[Citations: 15] Casey, C.M.**, Zavala, J., Spilker, J., Da Cunha, E., Hodge, J., Hung, C.-L., Staguhn, J., Finkelstein, S., Drew, P. “The Brightest Galaxies in the Dark Ages: Galaxies’ Dust Continuum Emission during the Reionization Era” 2018, ApJ 862, 77
4. **[Citations: 15] Casey, C.M.**, Cooray, A., Killi, M., Capak, P., Chen, C.-C., Hung, C.-L., Kartaltepe, J., Sanders, D.B., Scoville, N.Z. “Near-Infrared MOSFIRE Spectra of Dusty Star-Forming Galaxies at  $z < 4$ ” 2017, ApJ, 840, 101



5. [Citations: 31] **Casey, Caitlin M.** “The Ubiquity of Coeval Starbursts in Massive Galaxy Cluster Progenitors.” 2016, *ApJ* 824, 36
6. [Citations: 50] **Casey, C.M.**, Cooray, A., Capak, P., Fu, H., Kovac, K., Lilly, S., Sanders, D.B., Scoville, N.Z., Treister, E. “A massive, distant proto-cluster at  $z = 2.47$  caught in a phase of rapid formation?” 2015, *ApJL*, 808, 33
7. [Citations: 44] **Casey, C.M.**, Berta, S., Béthermin, M., Bock, J., Bridge, C., Burgarella, D., Chapin, E., Chapman, S.C., Clements, D.L., Conley, A., Concelise, C., Cooray, A., Farrah, D., Hatziminaoglou, E., Ivison, R.J., Le Floc’h, E., Lutz, D., Magdis, G., Magnelli, B., Oliver, S.J., Page, M.J., Pozzi, F., Rigopoulou, D., Riguccini, L., Roseboom, I.G., Sanders, D.B., Scott, D., Seymour, N., Valtchanov, I., Vieira, J.D., Viero, M., Wardlow, J.. “A Population of  $z > 2$  Far-infrared *Herschel*-selected Starbursts” 2012, *ApJ*, 761, 139
8. [Citations: 25] **Casey, C.M.**, Chapman, S.C., Smail, Ian, Alaghband-Zadeh, S., Bothwell, M.S., Swinbank, A.M. “Spectroscopic Characterisation of  $250\mu\text{m}$ -Selected Hyper-Luminous Star Forming Galaxies” 2011, *MNRAS* 411, 2739
9. [Citations: 11] **Casey, C.M.**, Chapman, S., Daddi, E., Dannerbauer, H., Pope, A., Scott, D., Bertoldi, F., Beswick, R., Blain, A., Cox, P., Genzel, R., Greve, T., Ivison, R., Muxlow, T., Neri, R., Omont, A., Smail, I., Tacconi, L. “A Search for Neutral Carbon Towards Two  $z=4.05$  Star Forming Submillimetre Galaxies, GN20 and GN20.2” 2009, *MNRAS* 400, 670, astro-ph/0908.3675
10. [Citations: 66] **Casey, C.M.**, Chapman, S.C., Beswick, R., Biggs, A., Blain, A., Hainline, L., Ivison, R., Muxlow, T., Smail, I. “Confirming a Population of Hot-Dust Dominated, Star Forming Ultraluminous Galaxies at High-Redshift” 2009, *MNRAS*, 399, 121
11. [Citations: 19] **Casey, C.M.**, Chapman, S.C., Muxlow, T., Beswick, R., Alexander, D., Conelise, C.J. “Constraining Star Formation and AGN in  $z \sim 2$  Massive Galaxies using High Resolution MERLIN Observations” 2009, *MNRAS*, 395, 1249
12. [Citations: 8] **Casey, C.M.**, Impey, C.D., Abraham, R., Trump, J., Gabor, J., Capak, P., Scoville, N., Brusa, M., Schinnerer, E. “Optical Selection of Faint AGN in the COSMOS Field” 2008, *ApJS*, 177, 131
13. [Citations: 4] **Casey, C.M.**, Impey, C.D., Petry, C.A., Marble, A.D., Davé, R. “PC 1643+4631 A, B: The Lyman Alpha Forest at the Edge of Coherence” 2008, *AJ*, 136, 181

#### OTHER REFEREED PAPERS:

---

– 2019 –

1. Cooke, Kevin C., Kartaltepe, Jeyhan S., Tyler, K.D., Darvish, Behnam, **Casey, Caitlin M.**, Le Fevre, Olivier, Salvato, Mara, Scoville, Nicholas. “Stellar Mass Growth of Brightest Cluster Galaxy Progenitors in COSMOS since  $z \sim 3$ .” 2019, *ApJ* 881, 150
2. Kaasinen, Melanie, Scoville, N. Z., Walter, F., da Cunha, E., Popping, G., Pavesi, R., Darvish, B., **Casey, Caitlin M.**, Riechers, D. A., Glover, S. “The Molecular Gas Reservoirs of  $z \sim 2$  Galaxies: a comparison of CO(1-0) and dust-based molecular gas masses.” 2019, *ApJ* 880, 15
3. Ma, Xiangcheng, Hayward, Christopher C., **Casey, Caitlin M.**, Hopkins, Philip F., Quataert, Eliot, Liang, Lichen, Faucher-Giguere, Claude-Andre, Feldmann, Robert, Keres, Dusan. “Dust extinction, dust emission, and dust temperature in galaxies at  $z \geq 5$ : a view from the FIRE-2 simulations” 2019, *MNRAS* 487, 1844

4. Magnelli, B., Karim, A., Staguhn, J., Kovacs, A., Jimenez-Andrade, E. F., **Casey, C. M.**, Zavala, J. A., Schinnerer, E., Sargent, M., Aravena, M., Bertoldi, F., Capak, P. L., Riechers, D. A., Benford, D. J. “The IRAM/GISMO 2 mm Survey in the COSMOS Field” 2019, ApJ 877, 45
5. T.K. Daisy Leung, Christopher C. Hayward, **Caitlin M. Casey**, Johannes Staguhn, Attila Kovacs, C. Darren Dowell. “Constraining the Active Galactic Nucleus and Starburst Properties of the IR-luminous Quasar Host Galaxy APM08279+5255 at Redshift 4 with SOFIA” 2019, ApJ 876, 48

– 2018 –

6. †Zavala, J., **Casey, C.M.**, da Cunha, E., Spilker, J., Staguhn, J., Hodge, J., Drew, P. “Constraining the Volume Density of Dusty Star-Forming Galaxies Through the First 3mm Number Counts from ALMA” 2018 ApJ 869, 71  
† closely supervised postdoc’s paper
7. ★Drew, P., **Casey, C.M.**, Simons, R., Hung, C.-L., Kassin, S., Burnham, A. “Evidence of a Flat Outer Rotation Curve in a Starbursting Disk Galaxy at  $z = 1.6$ ” 2018 ApJ 869, 58  
★ closely supervised student’s paper
8. ★Champagne, J.B., Decarli, R., **Casey, C.M.**, Venemans, B., Bañados, E., Walter, F., Bertoldi, F., Fan, X., Farina, E.P., Mazzucchelli, C., Riechers, D.A., Strauss, M.A., Wang, R., Yang, Y. “No Evidence for Millimeter Continuum Source Overdensities in the Environments of  $z > 6$  Quasars,” 2018 ApJ 867, 153  
★ closely supervised student’s paper
9. Hayward, C. C., Chapman, S. C., Steidel, C. C., Golob, A., **Casey, C. M.**, Smith, D.J.B., Zitrin, A., Blain, A. W., Bremer, M. N. Chen, C.-C., Coppin, K.E.K., Farrah, D., Ibar, E., Michalowski, M. J., Sawicki, M., Scott, D., van der Werf, P., Fazio, G. G., Geach, J. E., Gurwell, M., Petitpas, G., Wilner, D. J. “Observation constraints on the physical nature of submillimetre source multiplicity: chance projections are common” 2018 MNRAS 476, 2278
10. Riseley, C.J., Grainge, K.J.B., Perrott, Y.C., Scaife, A.M.M., Battye, R.A., Beswick, R.J., Birkinshaw, M., Brown, M.L., **Casey, C.M.**, Demetroullas, C., Hales, C.A., Harrison, I., Hung, C.-L., Jackson, N.J., Muxlow, T., Watson, B., Cantwell, T.M., Carey, S.H., Elwood, P.J., Hickish, J., Jin, T.Z., Razavi-Ghods, N., Scott, P.F., Titterton, D.J. “AMI-LA observations of the SuperCLASS supercluster” 2018 MNRAS 474, 5598
11. Treister, E., Privon, G.C., Sartori, L.F., Nagar, N., Bauer, F.E., Schawinski, K., Messias, H., Ricci, C., U, V., **Casey, C.M.**, Comerford, J.M., Muller-Sanchez, F., Evans, A.S., Finlez, C., Koss, M., Sanders, D.B., Urry, C.M. “Optical, Near-IR and Sub-mm IFU Observations of the Nearby Dual Active Galactic Nuclei MRK 463” 2018 ApJ 854, 83

– 2017 –

12. Whitaker, K.E., Pope, A., Cybulski, R., **Casey, C.M.**, Popping, G., Yun, M. “The Constant Average Relationship between Dust-obscured Star Formation and Stellar Mass from  $z = 0$  to  $z = 2.5$ ” 2017 ApJ 850, 208
13. Brisbin, D., Miettinen, O., Aravena, M., Smolcic, V., Delvecchio, I., Jiang, C., Magnelli, B., Albrecht, M., Munoz Arancibia, A., Aussel, H., Baran, N., Bertoldi, F., Bethermin, M., Capak, P., **Casey, C.M.**, Civano, F., Hayward, C.C., Ilbert, O., Karim, A., Le Fevre, O., Marchesi, S., McCracken, H.J., Navarrete, F., Novak, M., Richers, D., Padilla, N., Salvato, M., Scott, K., Schinnerer, E., Sheth, K., Tasca, L. “An ALMA survey of submillimeter galaxies in the COSMOS field: Multiwavelength counterparts and redshift distribution.” 2017 A&A 608, 15

14. Lee, N.Y., Sheth, K., Scott, K.S., Toft, S., Magdis, G.E., Damjanov, I., Zahid, H.J., **Casey, C.M.**, Cortzen, I., Gómez Guíjarro, C., Karim, A., Leslie, S.K., Schinnerer, E. “The Fine Line Between Normal and Starburst Galaxies” 2017 MNRAS, 471, 2124
15. Miettinen, O., Delvecchio, I., Smolcic, V., Aravena, M., Brisbin, D., Karim, A., Magnelli, B., Novak, M., Schinnerer, E., Albrecht, M., Aussel, H., Bertoldi, F., Capak, P.L., **Casey, C.M.**, Hayward, C.C., Ilbert, O., Intema, H.T., Jiang, C., Le Fevre, O., McCracken, H.J., Munoz Arancibia, A.M., Navarrete, F., Padilla, N.D., Riechers, D.A., Salvato, M., Scott, K.S., Sheth, K., Tasca, L.A.M. “An ALMA survey of submillimeter galaxies in the COSMOS field: Physical properties derived from energy balance spectral energy distribution modelling.” 2017 A&A 606, 17
16. Barisic, I., Faisst, A.L., Capak, P.L., Pavesi, R., Riechers, D.A., Scoville, N.Z., Cooke, K.C., Kartaltepe, J.S., **Casey, C.M.**, Smolcic, V. “Dust Properties of [CII] Detected  $z \sim 5.5$  Galaxies: New HST/WFC3 Near-IR Observations” 2017 ApJ 845, 41
17. Fu, H., Isbell, J., **Casey, C.M.**, Cooray, A., Prochaska, J.X., Scoville, N., Stockton, A. “The Circumgalactic Medium of Submillimeter Galaxies. II. Unobscured QSOs within Dusty Starbursts and QSO Sightlines with Impact Parameters below 100 Kiloparsec” 2017 ApJ 844, 123
18. Nayyeri, H., Cooray, A., Jullo, E., Riechers, D.A., Leung, T.K.D., Frayer, D.T., Gurwell, M.A., Harris, A.I., Ivison, R.J., Negrello, M., Oteo, I., Amber, S., Baker, A.J., Calanog, J., **Casey, C.M.**, Dannerbauer, H., De Zotti, G., Eales, S., Fu, H., Michalowski, M.J., Timmons, N., Wardlow, J.L. “Herschel and Hubble study of a lensed massive dusty starbursting galaxy at  $z \sim 3$ ” 2017 ApJ, 844, 82
19. Miettinen, O., Novak, M., Smolcic, V., Delvecchio, I., Aravena, M., Brisbin, D., Karim, A., Murphy, E.J., Schinnerer, E., Albrecht, M., Aussel, H., Bertoldi, F., Capak, P., **Casey, C.M.**, Civano, F., Hayward, C.C., Herrera Ruiz, N., Ilbert, O., Jiang, C., Laigle, C., Le Fevre, O., Magnelli, B., Marchesi, S., McCracken, H., Middelberg, E., Munoz Arancibia, A.M., Navarrete, F., Padilla, N.D., Riechers, D.A., Salvato, M., Scott, K.S., Sheth, K., Tasca, L.A.M., Bondi, M., Zamorani, G. “An ALMA Survey of Submillimetre galaxies in the COSMOS field: The extent of the radio-emitting region revealed by 3 GHz imaging with the Very Large Array.” 2017 A&A, 602, 54
20. Huynh, M., Emonts, B., Kimball, A., Seymour, N., Smail, I., Swinbank, A.M., Brandt, W.N., **Casey, C.M.**, Chapman, S.C., Dannerbauer, H., Hodge, J., Ivison, R., Schinnerer, E., Thomson, A., van der Werf, P., Wardlow, J. “The AT-LESS CO(1-0) survey of submillimetre galaxies in the Extended Chandra Deep Field South: First results on cold molecular gas in galaxies at  $z \sim 2$ ”, 2017 MNRAS, 467, 1222
21. Danielson, A.L.R., Swinbank, A.M., Smail, Ian, Simpson, J.M., **Casey, C.M.**, Chapman, S.C., Da Cunha, E., Hodge, J.A., Walter, F., Wardlow, J.L., Alexander, D.M., Brandt, W.N., De Breuck, C., Coppin, K.E.K., Dannerbauer, H., Dickinson, M., Edge, A.C., Gawiser, E., Ivison, R.J., Karim, A., Kovacs, A., Lutz, D., Weiss, A. “An ALMA Survey of the Sub-Millimetre Galaxies in the Extended *Chandra* Deep Field South: Spectroscopic Redshifts” 2017 ApJ, 840, 78
22. Scoville, N., Lee, N., Vanden Bout, P., Diaz-Santos, T., Sanders, D., Darvish, B., Bongiorno, A., **Casey, C.M.**, Murchikova, L., Koda, J., Capak, P., Vlahakis, C., Ilbert, O., Sheth, K., Morokuma-Matsui, K., Ivison, R.J., Aussel, H., Laigle, C., McCracken, H.J., Armus, L., Pope, A., Toft, S., Masters, D. “Evolution of Interstellar Medium, Star Formation and Accretion at High Redshift,” 2017 ApJ, 837, 150

– 2016 –

23. Fu, H., Hennawi, J.F., Prochaska, J.X., Mutel, R., **Casey, C.M.**, Cooray, A., Keres, D., Zhang, Z.-Y., Clements, D., Isbell, J., Lang, C., McGinnis, D., Michalowski, M.J., Mooley, K., Perley, D., Stockton, A., Thompson, D. “The Circumgalactic Medium of Submillimeter Galaxies 1. First results from a radio-identified Sample” 2016 ApJ, 832, 52
24. Riseley, C.J., Scaife, A.M.M, Hales, C.A., Harrison, I., Birkinshaw, M., Battye, R.A., Beswick, R.J., Brown, M.L., **Casey, C.M.**, Chapman, S.C., Demetroullas, C., Hung, C.-L., Jackson, N.J., Muxlow, T., Watson, B. “Deep observations of the Super-CLASS supercluster at 325 MHz with the GMRT: the low-frequency source catalog” 2016 MNRAS 462, 917
25. Olivares, V., Treister, E., Privon, G.C., Alaghband-Zadeh, S., **Casey, C.M.**, Schawinski, K., Kurczynski, P., Gawiser, E., Nagar, N., Chapman, S., Bauer, F.E., Sanders, D. “Spatially Resolved Spectroscopy of Submillimeter Galaxies at  $z \approx 2$ ” 2016 ApJ 827, 57
26. Hung, C.-L., **Casey, C.M.**, Chiang, Y.-K., Capak, P.L., Cowley, M.J., Darvish, B., Kacprzak, G.G., Kovac, K., Lilly, S.J., Nanayakkara, T., Spitler, L.R., Tran, K.-V.H., Yuan, T. “Large-scale Structure around a  $z = 2.1$  Cluster.” 2016 ApJ 826, 130
27. Scoville, N., Sheth, K., Aussel, H., Vanden Bout, P., Capak, P., Bongiorno, A., **Casey, C.M.**, Murchikova, L., Koda, J., Pope, A., Toft, S., Ivison, R.J., Sanders, D., Manohar, S., Lee, N. “ISM Masses and Star Formation at  $z = 1$  to 6 ALMA Observations of Dust Continuum in 180 Galaxies in COSMOS.” 2016 ApJL, 820, 83
28. Man, A.W.S., Greve, T.R., Toft, S., Magnelli, B., Karim, A., Ilbert, O., Salvato, M., Le Floch, E., Bertoldi, F., **Casey, C.M.**, Lee, N., Li, Y., Navarrete, F., Sheth, K., Smolcic, V., Sanders, D.B., Schinnerer, E., Zirm, A.W. “Confirming the quiescent galaxy population out to  $z = 3$ : a stacking analysis of mid-, far-infrared and radio data.” 2016 ApJ, 820, 11 (arxiv/1411.2870)

– 2015 –

29. Ma, B., Cooray, A., Calanog, J.A., Nayyeri, H., Timmons, N., **Casey, C.M.**, Baes, M., Chapman, S.C., Dannerbauer, H., Da Cunha, E.L., De Zotti, G., Dunne, L., Farrah, D., Fu, Hai, Gonzalez-Nuevo, J., Magdis, G., Michalowski, M.J., Oteo, I., Riechers, D.A., Scott, D., Smith, M.W.L., Wang, L., Wardlow, J., Viaene, S., Vieira, J.D., Vaccari, M. “Spitzer Imaging of Strongly-Lensed Herschel-Selected Dusty Star Forming Galaxies.” 2015 ApJ, 814, 17
30. Laporte, N., Pérez-Fournon, I., Calanog, J.A., Cooray, A., Wardlow, J.L., Bock, J., Bridge, C., Burgarella, D., Bussmann, R.S., Cabrera-Lavers, A., **Casey, C.M.**, Clements, D.L., Conley, A., Farrah, D., Fu, H., Gavazzi, R., González-Solares, E.A., Ivison, R.J., Lo Faro, B., Ma, B., Magdis, G., Marquez-Chaves, R., Martínez-Navajas, P., Oliver, S.J., Osage, W.A., Riechers, D., Rigopoulou, D., Scott, D., Streblyanska, A., Vieira, J.D. “Environment of the submillimeter-bright massive starburst HFLS3 at  $z \sim 6.34$ ” 2015 ApJ, 810, 130
31. Timmons, N., Cooray, A., Nayyeri, H., **Casey, C.M.**, Calanog, J.A., Ma, B., Messias, H., Baes, M., Bussmann, R.S., Dunne, L., Eales, S., Fu, H., Ivison, R.J., Michalowski, M.J., Oteo, I., Riechers, D.A., Wardlow, J. “Extinction and nebular line properties of a Herschel-selected lensed dusty starburst at  $z = 1.027$ ” 2015 ApJL, 805, 140
32. Capak, P.L., Carilli, C., Jones, G., Riechers, D., Sheth, K., Carollo, C.M., **Casey, C.M.**, Ilbert, O., Karim, A., LeFevre, O., Lilly, S., Scoville, N., Smolcic, V., Yan, L. “Primordial interstellar medium seen forming a billion years after the big bang.” 2015 Nature, 522, 455

33. Hung, C.-L., Rich, J., Yuan, T., Larson, K., **Casey, C.M.**, Smith, H., Sanders, D., Kewley, L., Hayward, C. “Kinematic asymmetries of local interacting galaxies: Implications for the merger/disk classifications at high- $z$ .” 2015 ApJ, 803, 62
34. Lee, N., Sanders, D.B., **Casey, C.M.**, Toft, S., Scoville, N.Z., Hung, C.-L., Le Floch, E., Ilbert, O., Zahid, H.J., Aussel, H., Capak, P., Kartaltepe, J.S., Kewley, L.J., Li, Y., Schawinski, K., Sheth, K., Xiao, Q. “A turnover in the galaxy main sequence of star formation at  $M_{\star} \sim 10^{10} M_{\odot}$  for redshifts  $z < 1.3$ .” 2015 ApJ, 801, 80

– 2014 –

35. Calanog, J.A., Fu, H., Cooray, A., and 36 others including **Casey, C.M.** (the HerMES team). “Lens Models of *Herschel*-Selected Galaxies From High-Resolution Near-IR Observations.” 2014 ApJ 797, 138
36. ★ Hung, Chao-Ling, Sanders, David B., **Casey, Caitlin M.**, Koss, Michael, Larson, Kirsten L., Lee, Nicholas, Li, Yanxia, Lockhart, Kelly, Shih, Hsin-Yi, Barnes, Joshua E., Kartaltepe, Jeyhan S., Smith, Howard A. “A Comparison of the Morphological Properties Between Local and  $z \sim 1$  Infrared Luminous Galaxies. Are Local and High- $z$  (U)LIRGs Different?” 2014 ApJ, 791, 63  
★ closely supervised student’s paper
37. Cooray, A., Calanog, J., Wardlow, J.L., and 23 others including **Casey, C.M.** (the HerMES team). “HerMES: The Rest-Frame UV Emission and A Lensing Model for the  $z = 6.34$  Luminous Dusty Starburst Galaxy HFLS3.” 2014, ApJ 790, 40
38. Barger, A.J., Cowie, L.L., Chen, C.-C., Owen, F.N., Wang, W.-H., **Casey, C.M.**, Lee, N., Sanders, D.B., Williams, J.P. “Is There a Maximum Star Formation Rate in High-redshift Galaxies?” 2014 ApJ, 784, 9
39. Collins, M.L.M., Chapman, S.C., Rich, R.M., Ibata, R.A., Martin, N.F., Irwin, M.J., Bate, N.F., Lewis, G.F., Peñarrubia, J., Arimoto, N., **Casey, C.M.**, Ferguson, A.M.N., Koch, A., McConnachie, A.W., Tanvir, N. “The masses of Local Group dwarf spheroidal galaxies: The Death of the Universal Mass Profile” 2014 ApJ, 783, 7
40. Dowell, C. Darren and 71 others including **Casey, C.M.** (the HerMES team). “HerMES: Candidate High-Redshift Galaxies Discovered with *Herschel*/SPIRE” 2014, ApJ, 780, 75

– 2013 –

41. Viero, M.P. and 31 others including **Casey, C.M.** (the HerMES team). “HerMES: The Contribution to the Cosmic Infrared Background from Galaxies Selected by Mass and Redshift.” 2013, ApJ, 779, 32
42. ★ Lee, Nicholas, Sanders, D.B., **Casey, C.M.**, Scoville, N.Z., Hung, C.-L., Le Floch, E., Ilbert, O., Aussel, H., Capak, P., Kartaltepe, J.S., Roseboom, I., Salvato, M., Aravena, M. Bock, J., Oliver, S.J., Riguccini, L., Symeonidis, M. “Multi-Wavelength SEDs of *Herschel* Selected Galaxies in the COSMOS Field.” 2013, ApJ, 778, 131  
★ closely supervised student’s paper
43. ★ Hung, Chao-Ling, Sanders, David B., **Casey, Caitlin M.**, Lee, Nicholas, Barnes, Joshua E., Capak, Peter, Kartaltepe, Jeyhan S., Koss Michael, Larson, Kirsten L., Le Floch, Emeric, Lockhart, Kelly, Man, Allison W.S., Mann, Andrew W., Riguccini, Laurie, Scoville, Nicholas, Symeonidis, Myrto. “The role of galaxy interaction in the SFR- $M_{\star}$  relation: characterizing morphological properties of *Herschel*-selected galaxies at  $0.2 < z < 1.5$ .” 2013 ApJ, 778, 129  
★ closely supervised student’s paper

44. Williams, Jonathan P., Cieza, Lucas A., Andrews, Sean M., Coulson, Iain M., Barger, Amy J., **Casey, Caitlin M.**, Chen, Chian-Chou, Cowie, Lennox L., Koss, Michael, Lee, Nicholas, Sanders, David B. “A SCUBA-2 850 $\mu$ m survey of protoplanetary discs in the  $\sigma$  Orionis cluster.” 2013, MNRAS, 435, 1671
45. Chen, Chian-Chou, Cowie, Lennox L., Barger, Amy J., **Casey, Caitlin M.**, Lee, Nicholas, Sanders, David B., Wang, Wei-Hao, Williams, Jonathan P. “Resolving the Cosmic Far-infrared Background at 450 and 850 $\mu$ m with SCUBA-2.” 2013, ApJ, 776, 131
46. Calanog, J.A., Wardlow, J., Fu, Hai, Cooray, A., Assef, R.J., Bock, J., **Casey, C.M.**, Conley, A., Farrah, D., Ibar, E., Kartaltepe, J., Magdis, G., Marchetti, L., Oliver, S.J., Pérez-Fournon, I., Riechers, D., Rigopoulou, D., Roseboom, I.G., Schulz, B., Scott, Douglas, Symeonidis, M., Vaccari, M., Viero, M., Zemcov, M. “HerMES: The Far-infrared Emission from Dust-obscured Galaxies.” 2013, ApJ, 775, 61
47. Viero, M.P. and 53 others including **Casey, C.M.** (the HerMES team). “HerMES: Cosmic Infrared Background Anisotropies and the Clustering of Dusty Star-Forming Galaxies” 2013, ApJ, 772, 77
48. Fu, Hai, and 42 others including **Casey, C.M.** (the HerMES team). “The rapid assembly of an elliptical galaxy of 4000 billion solar masses at a redshift of 2.3.” 2013, Nature, 498, 338
49. Collins, M.L.M., Chapman, S.C., Rich, R.M., Iбата, R.A., Martin, N.F., Irwin, M.J., Bate, N.F., Lewis, G.F., Peñarrubia, J., Arimoto, Nobuo, **Casey, C.M.**, Ferguson, A.M.N., Koch, A., McConnachie, A.W., Tanvir, N. “A Kinematic Study of the Andromeda Dwarf Spheroidal System.” 2013, ApJ, 768, 172
50. Bothwell, M.S., Smail, I., Chapman, S.C., Genzel, R., Ivison, R.J., Tacconi, L.J., Alaghband-Zadeh, S., Bertoldi, F., Blain, A.W., **Casey, C.M.**, Cox, P., Greve, T.R., Lutz, D., Neri, R., Omont, A., Swinbank, A.M. “A survey of molecular gas in luminous sub-millimetre galaxies” 2013, MNRAS, 429, 3047
51. Koss, M., Mushotzky, R., Baumgartner, W., Tueller, J., Veilleux, S., **Casey, C.M.** “Studying Faint Ultra Hard X-ray Emission from AGN in GOALS LIRGs with *Swift* BAT” 2013, ApJ, 765, 26
52. Chen, C.-C., Cowie, L., Barger, A., **Casey, C.M.**, Lee, N., Sanders, D.B., Wang, W.-H., Williams, J.P. “Faint Submillimeter Galaxy Counts at 450 micron” 2013, ApJ, 762, 81
53. Wardlow, J.L. and 85 others including **Casey, C.M.** (the HerMES team). “HerMES: Candidate Gravitationally Lensed Galaxies and Lensing Statistics at Submillimeter Wavelengths” 2013, ApJ, 762, 59

– 2012 –

54. Roseboom, I.G. and 38 others including **Casey, C.M.** (the HerMES team). “FMOS near-IR spectroscopy of Herschel selected galaxies: star formation rates, metallicity and dust attenuation at  $z \sim 1$ .” 2012, MNRAS, 426, 1782
55. U, Vivian, Sanders, D.B., Mazzarella, J.M., Evans, A.S., Howell, J.H., Surace, J.A., Armus, L., Iwasawa, K., Kim, D-C, **Casey, C.M.**, Vavilkin, T., Dufault, M., Larson, K., Barnes, J., and others. “Spectral Energy Distributions of Local Luminous And Ultraluminous Infrared Galaxies” 2012 ApJS in press, astro-ph/1209.1611
56. Alaghband-Zadeh, S., Chapman, S.C., Swinbank, A.M., Smail, I., Harrison, C.M., Alexander, D.M., **Casey, C.M.**, Davé, R., Narayanan, D., Tamura, Y., Mehata, U. “Integral Field Spectroscopy of  $2.0 < z < 2.7$  Sub-mm Galaxies: gas morphologies and kinematics.” 2012, MNRAS 424, 2232

57. Béthermin, M. and 60 others including **Casey, C.M.** (the HerMES team). “HerMES: deep number counts at 250, 350, and 500 $\mu$ m in the COSMOS and GOODS-N fields and the build-up of the cosmic infrared background” 2012 A&A 542, 58

– 2008–2011 –

58. Combes, F., Rex, M., Rawle, T.D., Egami, E., Boone, F., Smail, I., Richard, J., Ivison, R.J., Gurwell, M., **Casey, C.M.**, Omont, A., Berciano Alba, A., Dessauges-Zavadsky, M., Edge, A.C., Fazio, G.G., Kneib, J.-P., Okabe, N., Pello, R., Perez-Gonzalez, P.G., Schaerer, D., Smith, G.P., Swinbank, A.M., van der Werf, P. “A bright  $z=5.2$  lensed submillimeter galaxy in the field of Abell 773. HLSJ091828.6+514223” 2011 A&A 538, 4
59. Bothwell, M.S., Chapman, S.C., Tacconi, L., Smail, Ian, Ivison, R.J., **Casey, C.M.**, Bertoldi, F., Beswick, R., Biggs, A., Blain, A.W., Cox, P., Genzel, R., Greve, T.R., Kennicutt, R., Muxlow, T., Neri, R., Omont, A. “High-resolution CO and radio imaging of ULIRGs: extended CO structures and implications for the universal star formation law” 2010, MNRAS 405, 219
60. Chapman, S.C. & **Casey, C.M.**. “Submillimetre Detection of the  $z=2.83$  Lyman-break Galaxy, Westphal MM8, and Implications for SCUBA2” 2009, MNRAS, 398, 1615
61. Fabian, A.C., Chapman, S.C., **Casey, C.M.**, Bauer, F., Blundell, K. “The Extended Emission around HDF130 at  $z=1.99$ : a Giant Ghost Radio source in the Chandra Deep Field North” 2009, MNRAS, 395, 67

#### OTHER SIGNIFICANT, NON-REFEREED CONTRIBUTIONS:

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1. **Caitlin M. Casey**, Peter Capak, Johannes Staguhn, Lee Armus, Andrew Blain, Matthieu Béthermin, Jaclyn Champagne, Asantha Cooray, Kristen Coppin, Patrick Drew, Eli Dwek, Steven Finkelstein, Maximilien Franco, James Geach, Jacqueline Hodge, Maciej Koprowski, Claudia Lagos, Desika Narayanan, Alexandra Pope, David Sanders, Irene Shivaie, Sune Toft, Joaquin Vieira, Fabian Walter, Kate Whitaker, Min Yun, Jorge Zavala. “Taking Census of Massive, Star-Forming Galaxies formed  $<1$  Gyr After the Big Bang,” Concept paper submitted to Astro2020. 2019 BAAS 51, 212 (arXiv/1903.05634)
2. ★ Laney Wicker & **Caitlin M. Casey**. “Constraining Multiplicity and Clustering Using Empirical Models of the (Sub)Millimeter Sky” 2019 RNAAS in press  
★ closely supervised student’s paper
3. ★ Aimee Schechter & **Caitlin M. Casey**. “Examining the Gas Outflow for a Typical Dusty Star-forming Galaxy at  $z = 2$ ” 2018 RNAAS 2, 228  
★ closely supervised student’s paper
4. **Caitlin M. Casey**, Desika Narayanan, Chris Carilli, Jaclyn Champagne, Chao-Ling Hung, Romeel Dave, Roberto Decarli, Eric J. Murphy, Gergo Popping, Dominik Riechers, Rachel S. Somerville, Fabian Walter. “Science with an ngVLA: Imaging Cold Gas to 1 kpc Scales in High-Redshift Galaxies with the ngVLA” Published in the ASP Monograph Series, “Science with a Next-Generation VLA”, ed. E. J. Murphy (ASP, San Francisco, CA) arXiv/1810.08258
5. **Caitlin M. Casey**, “The untold story of NASA’s trailblazers.” Guest Movie Review for Resonance special edition, produced 100% by women (a publication for undergraduate STEM-interested students in India), 22(3), 317-318

6. **Casey, C.M.** “Promoting Inclusion in STEM, One Astrophysics Research Project at a Time.” Guest Blog for Scientific American, November 21, 2016.
7. **Casey, C.M.**, Hodge, J.A., Lacy, M., Hales, C.A., Barger, A., Narayanan, D., Carilli, C., Alatalo, K., da Cunha, E., Ivison, R., Kimball, A., Kohno, K., Murphy, E., Riechers, D., Sargent, M., Walter, F. “Next Generation Very Large Array Memo No. 8 Science Working Group 3: Galaxy Assembly Through Cosmic Time” *Future of Radio Astronomy in the U.S.A. Concept Paper*, part of the NRAO memo series on the ngVLA, arXiv/1510.06411
8. **Caitlin Casey** & Kartik Sheth. “The ethical grey zone,” Careers Column in *Nature*, 21 November 2013
9. Several guest contributions to the Women In Astronomy Blog, sponsored by the AAS Committee for the Status of Women in Astronomy (*womeninastronomy.blogspot.com*): Fed Up With Sexual Harassment: Power to Speak Up (15-May-2014), Time to talk about Privilege (11-Apr-2014), Please don’t try to play the “socioeconomic class” trump card (12-Feb-2014).
10. **Casey, C.M.** “Seeking Completeness for high-z ULIRGs: from SCUBA to *Herschel*,” Proceedings of the International Astronomical Union, IAU Symposium, Tracing the Ancestry of Galaxies (on the land of our ancestors), 2011, Vol. 277, 142
11. **Casey, C.M.** “Characterizing Ultra-luminous Infrared Galaxies in the Early Universe,” [PhD Dissertation, defended 18 August 2010], 2011, The Observatory, Vol. 131, 189
12. **Casey, C.M.** “Confirmation of a Dominating Hot Dust Component in Star Forming Ultraluminous Galaxies at High-Redshift,” conference proceedings from the AGN/Starburst Connection Conference, Shanghai Normal University, China, October 2008.
13. Observations of **C.M. Casey** in 397 Minor Planet Electronic Circulars from 2004-2006, with key contributions to MPEC 2005 G83: 2003 WU172, MPEC 2005-G18: 2005 GL1, MPEC 2005-G21: 2005 GY8 as part of the Catalina Sky Survey team (PI: Steve Larson).