

# Pauline Barmby

March 2018

Faculty of Science/Department of Physics & Astronomy  
Western University  
London, ON N6A 5B9 Canada  
pbarmby@uwo.ca  
Phone: (519) 661-2111 ext. 83041

ORCID: <https://orcid.org/0000-0003-2767-0090>

GitHub: <https://github.com/PBarmby>

Group website: <https://nearby-galaxies.github.io>

## Education

PhD, Astronomy	Harvard University	2001
AM, Astronomy	Harvard University	1998
BSc (Hons), Physics & Astronomy	University of British Columbia	1995

## Experience

Acting Dean	Faculty of Science, Western University	2017–2018
Associate Dean, Graduate & Postdoctoral Studies	Faculty of Science, Western University	2015–2017
Associate Professor	Department of Physics & Astronomy, Western University	2013–present
Assistant Professor	Department of Physics & Astronomy, Western University	2007–2013
Astrophysicist	Smithsonian Astrophysical Observatory	2001–2007

## Research Interests

Observational extragalactic astronomy:

galaxy formation	stellar populations	extragalactic star clusters
clusters of galaxies	active galactic nuclei	astrophysics

## Research Grants

Assembling the Big Picture of Nearby Galaxies	\$135k	NSERC Discovery Grant	2013–2018
Far Out: Tracing the Mass in M31	\$16k	Spitzer Science Center	2012
Astroinformatics	\$84k	Western University ADF	2012–2014
Star Formation Histories of Nearby Galaxies	\$125k	NSERC Discovery Grant	2008–2013
Star Formation Histories of Nearby Galaxies	\$140k	Ontario Early Researcher Award	2008–2013
The Local Group Dwarf Spheroidals	\$55k	Spitzer Science Center	2008–2011
Old and New Stars Revealed by Infrared Imaging	\$4k	Western University ADF	2008–2009
Star Formation and Star Clusters in Nearby Galaxies	\$40k	NSERC Discovery Grant	2007–2008
Mass Loss in Cepheid Variables (Co-I)	\$28k	Spitzer Science Center	2006–2009
A Complete Map of M31 with IRAC	\$74k	Spitzer Science Center	2005–2007
Imaging of the Extended Groth Strip (Co-I)	\$7k	Chandra X-ray Center	2004–2006
The Most Massive Star Clusters (Co-I)	\$18k	Space Telescope Science Institute	2004–2006
Stellar Populations in M101 (Co-I)	\$16k	Space Telescope Science Institute	2002–2005

*Values are total funds over grant lifetime.*

## Teaching Experience

### Courses taught at Western University

Astronomy 9610	Fundamentals of Modern Astrophysics (c)	9 grads	2014
Astronomy 2022	The Origin of the Universe	190 undergrads	
Physics 1402	Physics for Engineers II	385 undergrads	2013–14
Astronomy 9028	Data and Error Analysis (c)	12 grads	
Astronomy 9610	Fundamentals of Modern Astrophysics (c)	10 grads	
Astronomy 9612	Fundamentals of Computation (c)	12 grads	2012–13
Physics 1402	Physics for Engineers II	370 undergrads	
Astronomy 9610	Fundamentals of Modern Astrophysics (c)	7 grads	
Astronomy 1021	General Astronomy	85 undergrads	2011–12
Physics 1402	Physics for Engineers	180 undergrads	
Astronomy 9610	Fundamentals of Modern Astrophysics (c)	7 grads	
Astronomy 1021	General Astronomy	150 undergrads	2010–11
Astronomy 9610	Introduction to Astrophysics (t)	13 grads	
Physics 1024	Introductory Physics (c)	34 undergrads	2009–10
Astronomy 4602	Gravitational Astrophysics & Cosmology	10 undergrads	
Astronomy 1021	General Astronomy	135 undergrads	
Astronomy 9620	Galactic and Extragalactic IR Astronomy (c)	6 grads	
Astronomy 1021	General Astronomy	135 undergrads	2008–09
Physics 9028	Data and Error Analysis (c)	11 grads	
Astronomy 96xx	Extragalactic Star Formation (reading course)	1 grad	2007–08
Astronomy 4602	Gravitational Astrophysics & Cosmology	10 undergrads	
Astronomy 9620	Galactic and Extragalactic IR Astronomy (c)	6 grads	
Calculus 1000	Calculus I	90 undergrads	

(c) = co-instructor, (t)=team-taught

### Computing workshops taught

R-Ladies London	Introduction to Git and GitHub	2017
Western University	Software Carpentry	2016
University of Toronto	Software Carpentry	2015
Western University	Software Carpentry	2015
American Astronomical Society Meeting	Software Carpentry	2015
University of Toronto	Software Carpentry	2014
Mozilla Toronto	Software Carpentry	2014
Western University	Western science bootcamp	2014

Contributions to collaborative lesson development indexed on [zenodo.org](https://zenodo.org).

**Student advisory & assessment duties**

Faculty advisor	Western University Summer Academic Orientation	2012–2015
Member	Western Physics & Astronomy advisory committees (10 MSc, 9 PhD)	2007–present
Reader	Western Astronomy MSc project reports (0.5–1/yr)	2008–present
Reader	Western Physics & Astronomy undergrad theses (1/yr)	2008–present
Chair	Western University PhD examination committees (1–2/yr)	2008–present
Member	McMaster University PhD student committee (1)	2009–2012
Member	Harvard University student thesis committees (2)	2005–2008
Supervisor	Smithsonian Research Experiences for Undergraduates student	2004

**Thesis Examination**

1. Abedin, A.	PhD, Astronomy “Formation and past evolution of the meteoroid complex of Comet 96P/Machholz ”	Sept 2016
2. Madaan, D.	MSc, Applied Mathematics “Modeling the Mass Function of Stellar Clusters Using the Modified Lognormal Power-Law Probability Distribution Function”	Aug 2016
3. Tammour, A.	PhD, Astronomy “Insights from Unsupervised Clustering and Composite Spectral Analysis Into the Physical Properties Driving Emission and Absorption in Quasar UV/Optical Spectra”	Apr 2016
4. Silaj, J.	PhD, Astronomy “The H $\alpha$ Spectroscopy of Classical B-emission Stars”	Dec 2014
5. Desjardins, T.	PhD, Astronomy “The X-ray View of Galaxies in Compact Groups and the Coma Cluster Infall Region”	Jul 2014
6. Halonen, R.	PhD, Astronomy “The Continuum Linear Polarization Signature of Classical Be Stars”	Aug 2013
7. Bailey, N.	PhD, Astronomy “Core Formation in Partially Ionized Molecular Clouds”	Apr 2013
8. Wing, R.	MSc, Physics “Multi-sensor Calibration and Validation of the UWO-PCL NDACC Water Vapour Raman Lidar”	Dec 2012
9. Kikwaya, J.-B.	PhD, Astronomy “Bulk density of small meteoroids”	Mar 2011

**Student and postdoctoral supervision at Western University****Postdoctoral fellows & research assistants**

1. M. Gorski, PDF	Molecular gas in nearby galaxies	2017–present
2. S. Lianou, PDF	Resolved star formation in nearby galaxies	2012–2015
3. J. Taylor, RA	Development of Imagecube	2013
4. M. Azimlu, PDF	HII regions in M31	2009–2011

**PhD students**

1. H. Papei	“Star formation histories of nearby galaxies”	2018–present
2. A. Desouza	“Gas in compact groups of galaxies” (with S. Gallagher)	2017–present
3. R. Arnason	“X-ray sources and machine learning in nearby galaxies”	2014–present
4. S. Rahmani	“What governs star formation in galaxies? A modern statistical approach”	2012–2016
5. N. Vulic	“X-ray populations in the Local Group: insights with <i>Hubble</i> & <i>Chandra</i> ” (with S. Gallagher)	2012–2016
6. R. Marciniak	(withdrew)	2009–2010

**MSc students**

1. M. Rafiei Ravandi	“Extending the surface brightness profile of the Andromeda galaxy using <i>Spitzer</i> -IRAC”	2013–2015
2. D. Hemachandra	“Characteristics of polycyclic aromatic hydrocarbons in M31” (with E. Peeters)	2012–2014
3. M. Croley	“The M31 abundance gradient”	2011–2013
4. G. Farhani	“HII regions and the star formation rate in NGC 5128 (Cen A)”	2011–2012
5. J. Agar	“Comparisons of M31 globular clusters with and without X-ray sources”	2010–2012
6. N. Vulic	“A stacking analysis of star clusters in M51: the search for X-Ray binaries” (with S. Gallagher)	2010–2012
7. H. Shiu	“Mass-loss rates of AGB stars in metal-poor Local Group dwarf spheroidal galaxies”	2009–2011
8. R. Marciniak	“HII regions in M31”	2008–2009
9. D. Valenzo	(withdrew)	2007

**BSc students**

1. S. Elkerton	BSc thesis	2016–2017
2. W. Ahmed	work-study	2015–2016
3. A. Kiar	Volunteer, USRA	2014–2016
4. A. Hidalgo Valadez	Mitacs Globalink	2014
5. G. Keenleyside	BSc thesis	2013–2014
6. E. Matlovich	work-study	2013
7. R. Odell	USRA	2012
8. F. Jalilian	USRA	2010
9. M. Gracie	USRA	2010
10. H. Shiu	USRA	2009
11. V. Lyttle	summer student	2008
12. N. Hasan	work-study	2008

**Fellowships and Awards**

Science Leadership Fellow	University of Toronto	2014
Florence Bucke Prize	Western Faculty of Science	2014
Outreach Award (to entire Astronomy group)	Western Faculty of Science	2010
Group Achievement Award (to Spitzer Space Telescope Payload Team)	NASA	2004
Graduate Teaching Award	Harvard University	1997, 1999
Margaret Weyerhauser Jewitt Memorial Fellowship	Harvard University	1996
Canada Scholar	Government of Canada	1990–1995

## Professional Activities

### University service

Member	Integrated Science program committee	Western Faculty of Science	2014
Member	workload committee	Western Physics & Astronomy	2014
Member	graduate affairs committee	Western Physics & Astronomy	2013–14
Member	research & awards committee	Western Physics & Astronomy	2013–14
Member	colloquium committee	Western Physics & Astronomy	2012–13
Member	first-year operating committee	Western Faculty of Engineering	2011–14
Member	Appointments committee	Western Physics & Astronomy	2011–12
Chair	Outreach committee	Western Physics & Astronomy	2011–13
Member	NSERC USRA selection committee	Western Faculty of Science	2008–14
Member	Outreach committee	Western Physics & Astronomy	2007–13

### Professional service & memberships

Member	Program committee, SciPy conference	2018
Member	AURA oversight Committee for Gemini	2017–2018
Member	York Region Astronomy Association advisory board	2017
Co-chair	Astronomy mini-symposium, SciPy conference	2017
Member	Dunlap Institute advisory board	2016–present
Chair	Software/Data Carpentry policy committee	2016–2018
Member	Membership committee, International Astrostatistics Association	2016–present
Member	ACURA-CASCA TMT Alternative Site Committee	2016
Director-at-large	Canadian Astronomical Society (CASCA)	2013–15
Member	CASCA Equity and Inclusivity Committee	2015–17
Member	CASCA Long Range Plan Implementation Committee	2014–15
Member	scientific organizing committee (SOC), “Python in Astronomy”	2014–15
Member	Canada-France-Hawaii Telescope Science Advisory Council	2014–15
Member	Users’ Committee, Gemini Observatory	2013–15
Chair	CASCA Ground-based Astronomy Committee	2013–15
Member	CASCA Ground-based Astronomy Committee	2012–13
Chair	SOC, Gemini Science Conference	2012
Member	Canadian Gemini Science Committee	2011–13
Member	local organizing committee, CASCA 2011 general meeting	2010–11
Chair	SOC, CASCA 2011 general meeting	2010–11
Member	SOC, “The Evolving ISM in the Milky Way and Nearby Galaxies”	2007
Member	<i>Spitzer Space Telescope</i> Users’ Panel	2004–07
Member	Canadian Association of Physicists	2018–present
Member	American Association of Physics Teachers	2011–2015
Member	International Astronomical Union	2009–present
Associate	COSPAR	2008–present
Member	Canadian Astronomical Society	2001–present
Member	American Astronomical Society	1997–present

**Consulting**

Science consultant	Ubisoft Toronto	2015
Textbook reviewer	McGraw-Hill	2013
Textbook reviewer	Cambridge University Press, Nelson Canada	2012
Test bank author	Nelson Canada	2011–2012
Textbook reviewer	W.W. Norton, Cambridge University Press	2010
Textbook reviewer	Cambridge University Press, W.H. Freeman	2009

**Peer review**

Reviewer	<i>Spitzer Space Telescope</i> director's discretionary time proposals	2017
Reviewer	National Research Council Grants to International Affiliations Program Annual Performance Review	2016, 2017
Member	<i>Spitzer Space Telescope</i> observing proposal review	2016
Reviewer	NASA Astrophysics Data Analysis Program	2015
Panel member	Ontario Early Researcher Awards	2014
Reviewer	CEA Eurotalents Program	2014
Reviewer	Research Foundation – Flanders	2013
Reviewer	NASA Postdoctoral Program	2013
Referee	NSERC Discovery Grants	2011, 2013, 2015
Reviewer & deputy panel chair	<i>Chandra X-ray Observatory</i> observing proposal review	2011
Member	<i>Spitzer Space Telescope</i> observing proposal review	2011
Member & panel chair	Canadian Time Allocation Committee (CFHT/Gemini/ JCMT)	2010–2011
Member	Canadian Time Allocation Committee	2008–2011
Reviewer & deputy panel chair	<i>Spitzer Space Telescope</i> observing proposal review	2008
Referee	Gemini and Canada-France-Hawaii Telescope proposals	2007–2008
Panel member	<i>Spitzer Space Telescope</i> observing proposal review	2006
Member	National Science Foundation grant peer review panel	2005
Member	NASA Office of Space Science grant peer review panel	2002

Referee, *The Astrophysical Journal*, *The Astronomical Journal*, *Astronomy & Astrophysics*, *Publications of the Astronomical Society of the Pacific*, *Monthly Notices of the Royal Astronomical Society*, 2001–present (1–2 papers per year)

**Public education & outreach**

Speaker	STEMposium, Western University	2018
Speaker	Humanist Association of London & Area	2017
Speaker	Hamilton Amateur Astronomers	2017
Speaker	Royal Astronomical Society of Canada London Centre	2016
Speaker	Western Retired Academics Group	2016
Speaker	Inspiring Young Women in STEM, Western University	2016
Speaker	Sunday Assembly, London	2015
Presenter	Thames Valley Science & Engineering Fair	2014, 2015
Speaker	David Dunlap Observatory, Toronto	2015
Blogger	<i>Science Borealis</i> group <a href="http://scienceborealis.ca/blog/author/pbarmby/">http://scienceborealis.ca/blog/author/pbarmby/</a>	2015–2017
Scientist-in-Residence	London Regional Children's Museum	2012
Speaker	Western "Science Here and Now" series	2012
Organizer	Mars Science Laboratory landing event	2012
Speaker	Royal Astronomical Society of Canada London Centre	2012
Presenter	London District Science Fair	2010–2012
Speaker	Western University "Nobel Prize" series	2011
Speaker	Fraser Valley Astronomers Society	2009
Speaker	Jack Chambers Public School	2009–14
Podcaster	"365 Days of Astronomy"	2009, 2012
Speaker	Cronyn Observatory public "Observatory Night" (1/yr)	2008–present
Speaker	"Virtual Researcher on Call" (1–2 classroom visits/yr)	2008–present
Speaker	"Women in Research," Museum of Science, Boston	2007
Speaker	Center for Astrophysics public "Observatory Night"	2007
Volunteer	Museum of Science, Boston	2003–2004
Volunteer	The MAD Scientist Network 'Ask-A-Scientist' website	1997–2004

**Media interviews**

<i>Astronomy</i> magazine, Western Gazette, CBC News Network, CJBK radio	2017
AM980 radio, Western Gazette	2015
<i>Star Spot</i> podcast, Western News	2014
Rogers <i>Western Revealed</i> , <i>York Universe</i> podcast	2013
CIXX radio, <i>Earth</i> magazine, The Weather Network, AM980 radio, Western Gazette, CHRW, The Londoner, Metro, CJBK, Blackburn Radio, The Motts, Mohawk College News, London Free Press, CBC Radio/Ontario Morning, The Globe and Mail	2012
CIXX radio, Canadian Press	2011
<i>Bridges</i> career planning website, Asuza Pacific University journalism students	2010
Western University, Massachusetts Institute of Technology journalism students	2009

## Departmental colloquia & seminars

Slides for recent talks online at <https://figshare.com/search?q=Barmby&quick=1>

1. Western University (Planetary Science)	March 2018
2. Western University (Applied Mathematics)	January 2018
3. Western University (Science of Information)	March 2016
4. University of Victoria	July 2015
5. NRC-Herzberg Astrophysics	July 2015
6. St. Mary's University	March 2013
7. Western University (Planetary Science)	March 2013
8. Western University	September 2012
9. Swinburne University of Technology	May 2012
10. University of Toledo	March 2012
11. Western Washington University	April 2011
12. University of Rochester	March 2011
13. McMaster University	February 2010
14. Royal Military College of Canada	January 2010
15. University of Alberta	January 2010
16. University of Toronto	October 2009
17. Michigan State University	September 2009
18. Queen's University	March 2009
19. Harvard-Smithsonian Center for Astrophysics	February 2009
20. Trent University	January 2009
21. University of Minnesota	April 2008
22. Herzberg Institute of Astrophysics	February 2008
23. University of Waterloo	January 2008
24. Harvard-Smithsonian Center for Astrophysics	November 2006
25. Wesleyan University	December 2004
26. University of Rochester	December 2004
27. Harvard-Smithsonian Center for Astrophysics	March 2003
28. Harvard-Smithsonian Center for Astrophysics	September 2001
29. McMaster University	March 2001
30. European Southern Observatory	December 2000
31. Carnegie Observatories	November 2000
32. University of California at Berkeley	November 2000
33. American Museum of Natural History	October 2000
34. Dominion Astrophysical Observatory	August 2000
35. SAO Summer Intern Program	July 1999



# Publications

Author names in italics are Western University trainees. DOIs are linked to papers.

## Submitted refereed publications

1. The Astropy Collaboration et al., 2018, “The Astropy Project: Building an inclusive, open-science project and status of the v2.0 core package”. ArXiv e-prints, submitted (arxiv:1801.02634).
2. Mahajan, S., Ashby, M.L.N., Willner, S.P., Barmby, P., Maragkoudakis, A., and Raychaudhury, S., 2017, “The Star Formation Reference Survey III. A multi-wavelength view of dust and star formation in nearby galaxies”. ApJ, submitted.
3. Saintonge, A. et al., 2017, “JINGLE, a JCMT legacy survey of dust and gas for galaxy evolution studies: I. Survey overview and first results”. MNRAS, submitted.
4. **Rahmani, S.**, Teimoorinia, H., and Barmby, P., 2016, “Classifying galaxy spectra at  $0.5 < z < 1$ : an unsupervised approach”. MNRAS, submitted.

## Refereed publications

5. Boselli, A. et al., 2018, “A Virgo Environmental Survey Tracing Ionised Gas Emission (VESTIGE).I. Introduction to the Survey”. A&A, in press (arxiv:1802.02829).
6. **Vulic, N.**, Barmby, P., and Gallagher, S. C., 2018, “Milky Way globular cluster metallicity and low-mass X-ray binaries: the red giant influence”. MNRAS 473, 4900–4925. DOI: [10.1093/mnras/stx2626](https://doi.org/10.1093/mnras/stx2626).
7. **Kiar, A. K.**, Barmby, P., and **Hidalgo, A.**, 2017, “Deconstructing a galaxy: colour distributions of point sources in Messier 83”. MNRAS 472, 1074–1087. DOI: [10.1093/mnras/stx2037](https://doi.org/10.1093/mnras/stx2037).
8. Hart, E. M., Barmby, P., LeBauer, D., Michonneau, F., Mount, S., Mulrooney, P., Poisot, T., Woo, K. H., Zimmerman, N. B., and Hollister, J. W., 2016, “Ten Simple Rules for Digital Data Storage”. PLoS Comput. Biol. 12, 10, e1005097. DOI: [10.1371/journal.pcbi.1005097](https://doi.org/10.1371/journal.pcbi.1005097).
9. **Lianou, S.**, Xilouris, E., Madden, S. C., and Barmby, P., 2016, “The dustier early-type galaxies deviate from late-type galaxies’ scaling relations”. MNRAS 461, 2856–2866. DOI: [10.1093/mnras/stw1467](https://doi.org/10.1093/mnras/stw1467).
10. Mok, A., Wilson, C. D., Golding, J., Warren, B. E., Israel, F. P., Serjeant, S., Knapen, J. H., Sánchez-Gallego, J. R., Barmby, P., Bendo, G. J., Rosolowsky, E., and van der Werf, P., 2016, “The JCMT nearby galaxies legacy survey - X. Environmental effects on the molecular gas and star formation properties of spiral galaxies”. MNRAS 456, 4384–4406. DOI: [10.1093/mnras/stv2958](https://doi.org/10.1093/mnras/stv2958).
11. **Rafiei Ravandi, M.**, Barmby, P., Ashby, M. L. N., Laine, S., Davidge, T. J., Zhang, J., Bianchi, L., Babul, A., and Chapman, S. C., 2016, “The extended disc and halo of the Andromeda galaxy observed with Spitzer-IRAC”. MNRAS 459, 1403–1414. DOI: [10.1093/mnras/stw652](https://doi.org/10.1093/mnras/stw652).
12. **Rahmani, S.**, **Lianou, S.**, and Barmby, P., 2016, “Star formation laws in the Andromeda galaxy: gas, stars, metals and the surface density of star formation”. MNRAS 456, 4128–4144. DOI: [10.1093/mnras/stv2951](https://doi.org/10.1093/mnras/stv2951).
13. **Vulic, N.**, Gallagher, S. C., and Barmby, P., 2016, “X-rays beware: the deepest Chandra catalogue of point sources in M31”. MNRAS 461, 3443–3456. DOI: [10.1093/mnras/stw1523](https://doi.org/10.1093/mnras/stw1523).
14. Boyer, M. L., McQuinn, K. B. W., Barmby, P., Bonanos, A. Z., Gehrz, R. D., Gordon, K. D., Groenewegen, M. A. T., Lagadec, E., Lennon, D., Marengo, M., McDonald, I., Meixner, M., Skillman, E., Sloan, G. C., Sonneborn, G., van Loon, J. T., and Zijlstra, A., 2015, “An Infrared Census of Dust in Nearby Galaxies with Spitzer (DUSTiNGS). II. Discovery of Metal-poor Dusty AGB Stars”. ApJ 800, 51. DOI: [10.1088/0004-637X/800/1/51](https://doi.org/10.1088/0004-637X/800/1/51).
15. Boyer, M. L., McQuinn, K. B. W., Barmby, P., Bonanos, A. Z., Gehrz, R. D., Gordon, K. D., Groenewegen, M. A. T., Lagadec, E., Lennon, D., Marengo, M., Meixner, M., Skillman, E., Sloan, G. C., Sonneborn,

- G., van Loon, J. T., and Zijlstra, A., 2015, “An Infrared Census of Dust in nearby Galaxies with Spitzer (DUSTiNGS). I. Overview”. *ApJS* 216, 10. DOI: 10.1088/0067-0049/216/1/10.
16. **Hemachandra, D.**, Barmby, P., Peeters, E., Willner, S. P., Ashby, M. L. N., Smith, H. A., Gordon, K. D., Smith, D. A., and Fazio, G. G., 2015, “Mid-infrared spectroscopy of the Andromeda galaxy”. *MNRAS* 454, 818–830. DOI: 10.1093/mnras/stv2001.
  17. Nandra, K. et al., 2015, “AEGIS-X: Deep Chandra Imaging of the Central Groth Strip”. *ApJS* 220, 10. DOI: 10.1088/0067-0049/220/1/10.
  18. **Lianou, S.**, Barmby, P., Rémy-Ruyer, A., Madden, S.C., Galliano, F., and Lebouteiller, V., 2014, “Probing the interstellar medium of NGC1569 with *Herschel*”. *MNRAS* 445, 1003. DOI: 10.1093/mnras/stu1770.
  19. **Vulic, N.**, Gallagher, S. C., and Barmby, P., 2014, “Faint X-Ray Binaries and Their Optical Counterparts in M31”. *ApJ* 790, 136. DOI: 10.1088/0004-637X/790/2/136.
  20. **Agar, J.R.R.** and Barmby, P., 2013, “M31 Globular Cluster Structures and the Presence of X-Ray Binaries”. *AJ* 146, 135. DOI: 10.1088/0004-6256/146/5/135.
  21. Ashby, M. L. N. et al., 2013, “SEDS: The Spitzer Extended Deep Survey. Survey Design, Photometry, and Deep IRAC Source Counts”. *ApJ* 769, 80. DOI: 10.1088/0004-637X/769/1/80.
  22. Huang, J.-S., Faber, S. M., Willmer, C. N. A., Rigopoulou, D., Koo, D., Newman, J., Shu, C., Ashby, M. L. N., Barmby, P., Coil, A., Luo, Z., Magdis, G., Wang, T., Weiner, B., Willner, S. P., Zheng, X. Z., and Fazio, G. G., 2013, “Multi-Wavelength Study of a Complete IRAC 3.6  $\mu\text{m}$  Selected Galaxy Sample: A Fair Census of Red and Blue Populations at Redshifts 0.4-1.2”. *ApJ* 766, 21. DOI: 10.1088/0004-637X/766/1/21.
  23. **Vulic, N.**, Barmby, P., and Gallagher, S. C., 2013, “Stacking Star Clusters in M51: Searching for Faint X-Ray Binaries”. *ApJ* 763, 96. DOI: 10.1088/0004-637X/763/2/96.
  24. Barmby, P. and **Jalilian, F. F.**, 2012, “Comparing Mid-infrared Globular Cluster Colors with Population Synthesis Models”. *AJ* 143, 87. DOI: 10.1088/0004-6256/143/4/87.
  25. Sánchez-Gallego, J. R., Knapen, J. H., Wilson, C. D., Barmby, P., **Azimlu, M.**, and Courteau, S., 2012, “The JCMT Nearby Galaxies Legacy Survey - VII.  $\text{H}\alpha$  imaging and massive star formation properties”. *MNRAS* 422, 3208–3248. DOI: 10.1111/j.1365-2966.2012.20845.x.
  26. Willner, S. P., Ashby, M. L. N., Barmby, P., Chapman, S. C., Coil, A. L., Cooper, M. C., Huang, J.-S., Ivison, R., and Koo, D. C., 2012, “A Fully Identified Sample of AEGIS20 Microjansky Radio Sources”. *ApJ* 756, 72. DOI: 10.1088/0004-637X/756/1/72.
  27. Wilson, C. D. et al., 2012, “The JCMT Nearby Galaxies Legacy Survey - VIII. CO data and the  $L_{\text{CO}(3-2)}$ - $L_{\text{FIR}}$  correlation in the SINGS sample”. *MNRAS* 424, 3050–3080. DOI: 10.1111/j.1365-2966.2012.21453.x.
  28. Ashby, M. L. N., Mahajan, S., Smith, H. A., Willner, S. P., Fazio, G. G., Raychaudhury, S., Zezas, A., Barmby, P., Bonfini, P., Cao, C., González-Alfonso, E., Ishihara, D., Kaneda, H., Lyttle, V., Madden, S., Papovich, C., Sturm, E., Surace, J., Wu, H., and Zhu, Y.-N., 2011, “The Star Formation Reference Survey. I. Survey Description and Basic Data”. *PASP* 123, 1011–1029. DOI: 10.1086/661920.
  29. **Azimlu, M.**, **Marciniak, R.**, and Barmby, P., 2011, “A New Catalog of H II Regions in M31”. *AJ* 142, 139. DOI: 10.1088/0004-6256/142/4/139.
  30. Barmby, P., Marengo, M., Evans, N. R., Bono, G., Huelsman, D., Su, K. Y. L., Welch, D. L., and Fazio, G. G., 2011, “Galactic Cepheids with Spitzer. II. Search for Extended Infrared Emission”. *AJ* 141, 42. DOI: 10.1088/0004-6256/141/2/42.
  31. Domínguez, A., Primack, J. R., Rosario, D. J., Prada, F., Gilmore, R. C., Faber, S. M., Koo, D. C., Somerville, R. S., Pérez-Torres, M. A., Pérez-González, P., Huang, J.-S., Davis, M., Guhathakurta, P., Barmby, P., Conselice, C. J., Lozano, M., Newman, J. A., and Cooper, M. C., 2011, “Extragalactic background light inferred from AEGIS galaxy-SED-type fractions”. *MNRAS* 410, 2556–2578. DOI: 10.1111/j.1365-2966.2010.17631.x.

32. Sánchez-Gallego, J. R., Knapen, J. H., Heiner, J. S., Wilson, C. D., Warren, B. E., Allen, R. J., **Azimlu, M.**, Barmby, P., Bendo, G. J., Comerón, S., Israel, F. P., Serjeant, S., Tilanus, R. P. J., Vlahakis, C., and van der Werf, P., 2011, “The JCMT Nearby Galaxies Legacy Survey. VI. The distribution of gas and star formation in M 81”. *A&A* 527, A16. DOI: 10.1051/0004-6361/201014930.
33. Yan, R. et al., 2011, “AEGIS: Demographics of X-ray and Optically Selected Active Galactic Nuclei”. *ApJ* 728, 38. DOI: 10.1088/0004-637X/728/1/38.
34. Aird, J., Nandra, K., Laird, E. S., Georgakakis, A., Ashby, M. L. N., Barmby, P., Coil, A. L., Huang, J.-S., Koekemoer, A. M., Steidel, C. C., and Willmer, C. N. A., 2010, “The evolution of the hard X-ray luminosity function of AGN”. *MNRAS* 401, 2531–2551. DOI: 10.1111/j.1365-2966.2009.15829.x.
35. Kong, A. K. H., Heinke, C. O., di Stefano, R., Cohn, H. N., Lugger, P. M., Barmby, P., Lewin, W. H. G., and Primini, F. A., 2010, “Localization of the X-ray source in the globular cluster G1 with Chandra”. *MNRAS* 407, L84–L88. DOI: 10.1111/j.1745-3933.2010.00910.x.
36. Landt, H., Buchanan, C. L., and Barmby, P., 2010, “On the dust geometry in radio-loud active galactic nuclei”. *MNRAS* 408, 1982–1997. DOI: 10.1111/j.1365-2966.2010.17264.x.
37. Marengo, M., Evans, N. R., Barmby, P., Bono, G., Welch, D. L., and Romaniello, M., 2010, “Galactic Cepheids with Spitzer. I. Leavitt Law and Colors”. *ApJ* 709, 120–134. DOI: 10.1088/0004-637X/709/1/120.
38. Marengo, M., Evans, N. R., Barmby, P., Matthews, L. D., Bono, G., Welch, D. L., Romaniello, M., Huelsman, D., Su, K. Y. L., and Fazio, G. G., 2010, “An Infrared Nebula Associated with  $\delta$  Cephei: Evidence of Mass Loss?” *ApJ* 725, 2392–2400. DOI: 10.1088/0004-637X/725/2/2392.
39. Nantais, J. B., Huchra, J. P., Barmby, P., and Olsen, K. A. G., 2010, “Nearby Spiral Galaxy Globular Cluster Systems. II. Globular Cluster Metallicities in NGC 300”. *AJ* 139, 1178–1189. DOI: 10.1088/0004-6256/139/3/1178.
40. Park, S. Q., Barmby, P., Willner, S. P., Ashby, M. L. N., Fazio, G. G., Georgakakis, A., Ivison, R. J., Konidaris, N. P., Miyazaki, S., Nandra, K., and Rosario, D. J., 2010, “AEGIS: A Multiwavelength Study of Spitzer Power-law Galaxies”. *ApJ* 717, 1181–1201. DOI: 10.1088/0004-637X/717/2/1181.
41. Perina, S., Cohen, J. G., Barmby, P., Beasley, M. A., Bellazzini, M., Brodie, J. P., Federici, L., Fusi Pecci, F., Galletti, S., Hodge, P. W., Huchra, J. P., Kissler-Patig, M., Puzia, T. H., and Strader, J., 2010, “An HST/WFPC2 survey of bright young clusters in M 31. IV. Age and mass estimates”. *A&A* 511, A23. DOI: 10.1051/0004-6361/200913459.
42. Barmby, P., Boyer, M. L., Woodward, C. E., Gehrz, R. D., van Loon, J. T., Fazio, G. G., Marengo, M., and Polonski, E., 2009, “A Spitzer Search for Cold Dust Within Globular Clusters”. *AJ* 137, 207–217. DOI: 10.1088/0004-6256/137/1/207.
43. Barmby, P., Perina, S., Bellazzini, M., Cohen, J. G., Hodge, P. W., Huchra, J. P., Kissler-Patig, M., Puzia, T. H., and Strader, J., 2009, “A Hubble Space Telescope/WFPC2 Survey of Bright Young Clusters in M31. III. Structural Parameters”. *AJ* 138, 1667–1680. DOI: 10.1088/0004-6256/138/6/1667.
44. Hicken, M. et al., 2009, “CfA3: 185 Type Ia Supernova Light Curves from the CfA”. *ApJ* 700, 331–357. DOI: 10.1088/0004-637X/700/1/331.
45. Hodge, P. W., Krienke, O. K., Bellazzini, M., Perina, S., Barmby, P., Cohen, J. G., Puzia, T. H., and Strader, J., 2009, “An HST/WFPC Survey of Bright Young Clusters in M31. II. Photometry of Less Luminous Clusters in the Fields”. *AJ* 138, 770–779. DOI: 10.1088/0004-6256/138/3/770.
46. Laird, E. S., Nandra, K., Georgakakis, A., Aird, J. A., Barmby, P., Conselice, C. J., Coil, A. L., Davis, M., Faber, S. M., Fazio, G. G., Guhathakurta, P., Koo, D. C., Sarajedini, V., and Willmer, C. N. A., 2009, “AEGIS-X: the Chandra Deep Survey of the Extended Groth Strip”. *ApJS* 180, 102–116. DOI: 10.1088/0067-0049/180/1/102.
47. McConnachie, A. W. et al., 2009, “The remnants of galaxy formation from a panoramic survey of the region around M31”. *Nature* 461, 66–69. DOI: 10.1038/nature08327.

48. Perina, S., Barmby, P., Beasley, M. A., Bellazzini, M., Brodie, J. P., Burstein, D., Cohen, J. G., Federici, L., Fusi Pecci, F., Galletti, S., Hodge, P. W., Huchra, J. P., Kissler-Patig, M., Puzia, T. H., and Strader, J., 2009, “An HST/WFPC2 survey of bright young clusters in M31. I. VdB0, a massive star cluster seen at  $t \sim 25$  Myr”. *A&A* 494, 933–948. DOI: 10.1051/0004-6361:200810725.
49. Barmby, P., Huang, J.-S., Ashby, M. L. N., Eisenhardt, P. R. M., Fazio, G. G., Willner, S. P., and Wright, E. L., 2008, “A Catalog of Mid-Infrared Sources in the Extended Groth Strip”. *ApJS* 177, 431–445. DOI: 10.1086/588583.
50. Eisenhardt, P. R. M., Brodwin, M., Gonzalez, A. H., Stanford, S. A., Stern, D., Barmby, P., Brown, M. J. I., Dawson, K., Dey, A., Doi, M., Galametz, A., Jannuzi, B. T., Kochanek, C. S., Meyers, J., Morokuma, T., and Moustakas, L. A., 2008, “Clusters of Galaxies in the First Half of the Universe from the IRAC Shallow Survey”. *ApJ* 684, 905–932. DOI: 10.1086/590105.
51. Georgakakis, A., Nandra, K., Yan, R., Willner, S. P., Lotz, J. M., Pierce, C. M., Cooper, M. C., Laird, E. S., Koo, D. C., Barmby, P., Newman, J. A., Primack, J. R., and Coil, A. L., 2008, “The role of AGN in the colour transformation of galaxies at redshifts  $z \sim 1$ ”. *MNRAS* 385, 2049–2060. DOI: 10.1111/j.1365-2966.2008.12962.x.
52. Gorjian, V., Brodwin, M., Kochanek, C. S., Murray, S., Stern, D., Brand, K., Eisenhardt, P. R., Ashby, M. L. N., Barmby, P., Brown, M. J. I., Dey, A., Forman, W., Jannuzi, B. T., Jones, C., Kenter, A. T., Pahre, M. A., Shields, J. C., Werner, M. W., and Willner, S. P., 2008, “The Mid-Infrared Properties of X-Ray Sources”. *ApJ* 679, 1040–1046. DOI: 10.1086/587431.
53. Hora, J. L., Carey, S., Surace, J., Marengo, M., Lowrance, P., Glaccum, W. J., Lacy, M., Reach, W. T., Hoffmann, W. F., Barmby, P., Willner, S. P., Fazio, G. G., Megeath, S. T., Allen, L. E., Bhattacharya, B., and Quijada, M., 2008, “Photometry using the Infrared Array Camera on the Spitzer Space Telescope”. *PASP* 120, 1233–1243. DOI: 10.1086/593217.
54. McLaughlin, D. E., Barmby, P., Harris, W. E., Forbes, D. A., and Harris, G. L. H., 2008, “Structural parameters for globular clusters in NGC 5128 - III. ACS surface brightness profiles and model fits”. *MNRAS* 384, 563–590. DOI: 10.1111/j.1365-2966.2007.12566.x.
55. Mould, J., Barmby, P., Gordon, K., Willner, S. P., Ashby, M. L. N., Gehrz, R. D., Humphreys, R., and Woodward, C. E., 2008, “A Point-Source Survey of M31 with the Spitzer Space Telescope”. *ApJ* 687, 230–241. DOI: 10.1086/591844.
56. Park, S. Q., Barmby, P., Fazio, G. G., Nandra, K., Laird, E. S., Georgakakis, A., Rosario, D., Willner, S. P., Rieke, G. H., Ashby, M. L. N., Ivison, R. J., Coil, A. L., and Miyazaki, S., 2008, “AEGIS: Radio and Mid-Infrared Selection of Obscured AGN Candidates”. *ApJ* 678, 744–750. DOI: 10.1086/587136.
57. Barmby, P., McLaughlin, D. E., Harris, W. E., Harris, G. L. H., and Forbes, D. A., 2007, “Structural Parameters for Globular Clusters in M31 and Generalizations for the Fundamental Plane”. *AJ* 133, 2764–2786. DOI: 10.1086/516777.
58. Davis, M. et al., 2007, “The All-Wavelength Extended Groth Strip International Survey (AEGIS) Data Sets”. *ApJL* 660, L1–L6. DOI: 10.1086/517931.
59. Gerke, B. F., Newman, J. A., Lotz, J., Yan, R., Barmby, P., Coil, A. L., Conselice, C. J., Ivison, R. J., Lin, L., Koo, D. C., Nandra, K., Salim, S., Small, T., Weiner, B. J., Cooper, M. C., Davis, M., Faber, S. M., and Guhathakurta, P., 2007, “The DEEP2 Galaxy Redshift Survey: AEGIS Observations of a Dual AGN at  $z = 0.7$ ”. *ApJL* 660, L23–L26. DOI: 10.1086/517968.
60. Huang, J.-S., Rigopoulou, D., Papovich, C., Ashby, M. L. N., Willner, S. P., Ivison, R., Laird, E. S., Webb, T., Wilson, G., Barmby, P., Chapman, S., Conselice, C., McLeod, B., Shu, C. G., Smith, H. A., Le Floc’h, E., Egami, E., Willner, C. A. N., and Fazio, G. G., 2007, “AEGIS: Infrared Spectroscopy of an Infrared-luminous Lyman Break Galaxy at  $z=3.01$ ”. *ApJL* 660, L69–L72. DOI: 10.1086/508567.
61. Huang, J.-S. et al., 2007, “The Local Galaxy  $8 \mu\text{m}$  Luminosity Function”. *ApJ* 664, 840–849. DOI: 10.1086/519241.

62. Le Floc'h, E. et al., 2007, “Far-Infrared Characterization of an Ultraluminous Starburst Associated with a Massively Accreting Black Hole at  $z=1.15$ ”. *ApJL* 660, L65–L68. DOI: 10.1086/517916.
63. Noeske, K. G. et al., 2007, “Star Formation in AEGIS Field Galaxies since  $z=1.1$ : The Dominance of Gradually Declining Star Formation, and the Main Sequence of Star-forming Galaxies”. *ApJL* 660, L43–L46. DOI: 10.1086/517926.
64. Pierce, C. M., Lotz, J. M., Laird, E. S., Lin, L., Nandra, K., Primack, J. R., Faber, S. M., Barmby, P., Park, S. Q., Willner, S. P., Gwyn, S., Koo, D. C., Coil, A. L., Cooper, M. C., Georgakakis, A., Koekemoer, A. M., Noeske, K. G., Weiner, B. J., and Willmer, C. N. A., 2007, “AEGIS: Host Galaxy Morphologies of X-Ray-selected and Infrared-selected Active Galactic Nuclei at  $0.2 < z < 1.2$ ”. *ApJL* 660, L19–L22. DOI: 10.1086/517922.
65. Symeonidis, M., Rigopoulou, D., Huang, J.-S., Davis, M., Ashby, M. L. N., Barmby, P., Egami, E., Fazio, G. G., Le Floc'h, E., Rieke, G., Willner, S. P., and Wilson, G., 2007, “AEGIS: Infrared Spectral Energy Distributions of MIPS 70  $\mu\text{m}$ -selected Sources”. *ApJL* 660, L73–L76. DOI: 10.1086/517928.
66. Wilson, G., Huang, J.-S., Fazio, G. G., Yan, R., Koekemoer, A. M., Salim, S., Faber, S. M., Lotz, J., Willmer, C. N. A., Davis, M., Coil, A. L., Newman, J. A., Conselice, C. J., Papovich, C., Ashby, M. L. N., Barmby, P., Willner, S. P., Ivison, R., Miyazaki, S., and Rigopoulou, D., 2007, “AEGIS: A Panchromatic Study of IRAC-selected Extremely Red Objects with Confirmed Spectroscopic Redshifts”. *ApJL* 660, L59–L63. DOI: 10.1086/517923.
67. Alonso-Herrero, A., Pérez-González, P. G., Alexander, D. M., Rieke, G. H., Rigopoulou, D., Le Floc'h, E., Barmby, P., Papovich, C., Rigby, J. R., Bauer, F. E., Brandt, W. N., Egami, E., Willner, S. P., Dole, H., and Huang, J.-S., 2006, “Infrared Power-Law Galaxies in the Chandra Deep Field-South: Active Galactic Nuclei and Ultraluminous Infrared Galaxies”. *ApJ* 640, 167–184. DOI: 10.1086/499800.
68. Ashby, M. L. N., Dye, S., Huang, J.-S., Eales, S., Willner, S. P., Webb, T. M. A., Barmby, P., Rigopoulou, D., Egami, E., McCracken, H., Lilly, S., Miyazaki, S., Brodwin, M., Blaylock, M., Cadien, J., and Fazio, G. G., 2006, “Mid-Infrared Identifications of SCUBA Galaxies in the CUDSS 14 Hour Field with the Spitzer Space Telescope”. *ApJ* 644, 778–791. DOI: 10.1086/503861.
69. Barmby, P., Alonso-Herrero, A., Donley, J. L., Egami, E., Fazio, G. G., Georgakakis, A., Huang, J.-S., Laird, E. S., Miyazaki, S., Nandra, K., Park, S. Q., Pérez-González, P. G., Rieke, G. H., Rigby, J. R., and Willner, S. P., 2006, “Mid-Infrared Properties of X-Ray Sources in the Extended Groth Strip”. *ApJ* 642, 126–139. DOI: 10.1086/500823.
70. Barmby, P., Ashby, M. L. N., Bianchi, L., Engelbracht, C. W., Gehr, R. D., Gordon, K. D., Hinz, J. L., Huchra, J. P., Humphreys, R. M., Pahre, M. A., Pérez-González, P. G., Polonski, E. F., Rieke, G. H., Thilker, D. A., Willner, S. P., and Woodward, C. E., 2006, “Dusty Waves on a Starry Sea: The Mid-Infrared View of M31”. *ApJL* 650, L45–L49. DOI: 10.1086/508626.
71. Barmby, P., Kuntz, K. D., Huchra, J. P., and Brodie, J. P., 2006, “Hubble Space Telescope Observations of Star Clusters in M101”. *AJ* 132, 883–890. DOI: 10.1086/505689.
72. Block, D. L., Bournaud, F., Combes, F., Groess, R., Barmby, P., Ashby, M. L. N., Fazio, G. G., Pahre, M. A., and Willner, S. P., 2006, “An almost head-on collision as the origin of two off-centre rings in the Andromeda galaxy”. *Nature* 443, 832–834. DOI: 10.1038/nature05184.
73. Buckalew, B. A. et al., 2006, “Understanding Radio-selected Thermal Sources in M33: Ultraviolet, Optical, Near-Infrared, Spitzer Mid-Infrared, and Radio Observations”. *ApJS* 162, 329–345. DOI: 10.1086/498572.
74. Dye, S., Eales, S. A., Ashby, M. L. N., Huang, J.-S., Webb, T. M. A., Barmby, P., Lilly, S., Brodwin, M., McCracken, H., Egami, E., and Fazio, G. G., 2006, “An Investigation of the Submillimeter Background Radiation Using SCUBA and Spitzer”. *ApJ* 644, 769–777. DOI: 10.1086/503863.
75. Georgakakis, A., Nandra, K., Laird, E. S., Gwyn, S., Steidel, C. C., Sarajedini, V. L., Barmby, P., Faber, S. M., Coil, A. L., Cooper, M. C., Davis, M., and Newman, J. A., 2006, “A deep Chandra survey of the Groth Strip - II. Optical identification of the X-ray sources”. *MNRAS* 371, 221–234. DOI: 10.1111/j.1365-2966.2006.10634.x.

76. Gordon, K. D., Bailin, J., Engelbracht, C. W., Rieke, G. H., Misselt, K. A., Latter, W. B., Young, E. T., Ashby, M. L. N., Barmby, P., Gibson, B. K., Hines, D. C., Hinz, J., Krause, O., Levine, D. A., Marleau, F. R., Noriega-Crespo, A., Stolovy, S., Thilker, D. A., and Werner, M. W., 2006, “Spitzer MIPS Infrared Imaging of M31: Further Evidence for a Spiral-Ring Composite Structure”. *ApJL* 638, L87–L92. DOI: 10.1086/501046.
77. Harris, W. E., Harris, G. L. H., Barmby, P., McLaughlin, D. E., and Forbes, D. A., 2006, “Structural Parameters for Globular Clusters in NGC 5128. II. Hubble Space Telescope ACS Imaging and New Clusters”. *AJ* 132, 2187–2197. DOI: 10.1086/507579.
78. Jha, S. et al., 2006, “UBVRI Light Curves of 44 Type Ia Supernovae”. *AJ* 131, 527–554. DOI: 10.1086/497989.
79. Marleau, F. R., Noriega-Crespo, A., Misselt, K. A., Gordon, K. D., Engelbracht, C. W., Rieke, G. H., Barmby, P., Willner, S. P., Mould, J., Gehrz, R. D., and Woodward, C. E., 2006, “Mapping and Mass Measurement of the Cold Dust in NGC 205 with Spitzer”. *ApJ* 646, 929–938. DOI: 10.1086/504975.
80. Nantais, J. B., Huchra, J. P., Barmby, P., Olsen, K. A. G., and Jarrett, T. H., 2006, “Nearby Spiral Globular Cluster Systems. I. Luminosity Functions”. *AJ* 131, 1416–1425. DOI: 10.1086/500011.
81. Rigopoulou, D., Huang, J.-S., Papovich, C., Ashby, M. L. N., Barmby, P., Shu, C., Bundy, K., Egami, E., Magdis, G., Smith, H., Willner, S. P., Wilson, G., and Fazio, G. G., 2006, “Spitzer Observations of  $z \sim 3$  Lyman Break Galaxies: Stellar Masses and Mid-Infrared Properties”. *ApJ* 648, 81–94. DOI: 10.1086/505784.
82. Willner, S. P., Coil, A. L., Goss, W. M., Ashby, M. L. N., Barmby, P., Huang, J.-S., Ivison, R., Koo, D. C., Egami, E., and Miyazaki, S., 2006, “Mid-Infrared Identification of 6 cm Radio-Source Counterparts in the Extended Groth Strip”. *AJ* 132, 2159–2170. DOI: 10.1086/508202.
83. Beasley, M. A., Brodie, J. P., Strader, J., Forbes, D. A., Proctor, R. N., Barmby, P., and Huchra, J. P., 2005, “The Chemical Properties of Milky Way and M31 Globular Clusters. II. Stellar Population Model Predictions”. *AJ* 129, 1412–1427. DOI: 10.1086/427715.
84. Garcia, M. R., Williams, B. F., Yuan, F., Kong, A. K. H., Primini, F. A., Barmby, P., Kaaret, P., and Murray, S. S., 2005, “A Possible Detection of M31\* with Chandra”. *ApJ* 632, 1042–1047. DOI: 10.1086/432967.
85. Huang, J.-S., Rigopoulou, D., Willner, S. P., Papovich, C., Shu, C., Ashby, M. L. N., Barmby, P., Bundy, K., Conselice, C., Egami, E., Pérez-González, P. G., Rosenberg, J. L., Smith, H. A., Wilson, G., and Fazio, G. G., 2005, “Infrared Luminous Lyman Break Galaxies: A Population that Bridges LBGs and SCUBA Galaxies”. *ApJ* 634, 137–141. DOI: 10.1086/491697.
86. Labbé, I., Huang, J., Franx, M., Rudnick, G., Barmby, P., Daddi, E., van Dokkum, P. G., Fazio, G. G., Schreiber, N. M. F., Moorwood, A. F. M., Rix, H.-W., Röttgering, H., Trujillo, I., and van der Werf, P., 2005, “IRAC Mid-Infrared Imaging of the Hubble Deep Field-South: Star Formation Histories and Stellar Masses of Red Galaxies at  $z > 2$ ”. *ApJL* 624, L81–L84. DOI: 10.1086/430700.
87. Pérez-González, P. G., Rieke, G. H., Egami, E., Alonso-Herrero, A., Dole, H., Papovich, C., Blaylock, M., Jones, J., Rieke, M., Rigby, J., Barmby, P., Fazio, G. G., Huang, J., and Martin, C., 2005, “Spitzer View on the Evolution of Star-forming Galaxies from  $z = 0$  to  $z \sim 3$ ”. *ApJ* 630, 82–107. DOI: 10.1086/431894.
88. Reach, W. T., Megeath, S. T., Cohen, M., Hora, J., Carey, S., Surace, J., Willner, S. P., Barmby, P., Wilson, G., Glaccum, W., Lowrance, P., Marengo, M., and Fazio, G. G., 2005, “Absolute Calibration of the Infrared Array Camera on the Spitzer Space Telescope”. *PASP* 117, 978–990. DOI: 10.1086/432670.
89. Rigby, J. R., Rieke, G. H., Pérez-González, P. G., Donley, J. L., Alonso-Herrero, A., Huang, J.-S., Barmby, P., and Fazio, G. G., 2005, “Why Optically Faint AGNs Are Optically Faint: The Spitzer Perspective”. *ApJ* 627, 134–139. DOI: 10.1086/430398.
90. Shapley, A. E., Steidel, C. C., Erb, D. K., Reddy, N. A., Adelberger, K. L., Pettini, M., Barmby, P., and Huang, J., 2005, “Ultraviolet to Mid-Infrared Observations of Star-forming Galaxies at  $z \sim 2$ : Stellar Masses and Stellar Populations”. *ApJ* 626, 698–722. DOI: 10.1086/429990.

91. Alonso-Herrero, A. et al., 2004, “The Nature of Luminous X-Ray Sources with Mid-Infrared Counterparts”. *ApJS* 154, 155–159. DOI: 10.1086/422976.
92. Barmby, P., Huang, J.-S., Fazio, G. G., Surace, J. A., Arendt, R. G., Hora, J. L., Pahre, M. A., Adelberger, K. L., Eisenhardt, P., Erb, D. K., Pettini, M., Reach, W. T., Reddy, N. A., Shapley, A. E., Steidel, C. C., Stern, D., Wang, Z., and Willner, S. P., 2004, “Deep Mid-Infrared Observations of Lyman Break Galaxies”. *ApJS* 154, 97–102. DOI: 10.1086/422712.
93. Beasley, M. A., Brodie, J. P., Strader, J., Forbes, D. A., Proctor, R. N., Barmby, P., and Huchra, J. P., 2004, “The Chemical Properties of Milky Way and M31 Globular Clusters. I. A Comparative Study”. *AJ* 128, 1623–1645. DOI: 10.1086/424000.
94. Di Stefano, R., Kong, A. K. H., Greiner, J., Primini, F. A., Garcia, M. R., Barmby, P., Massey, P., Hodge, P. W., Williams, B. F., Murray, S. S., Curry, S., and Russo, T. A., 2004, “Supersoft X-Ray Sources in M31. I. A Chandra Survey and an Extension to Quasi-soft Sources”. *ApJ* 610, 247–260. DOI: 10.1086/421696.
95. Egami, E. et al., 2004, “Spitzer Observations of the SCUBA/VLA Sources in the Lockman Hole: Star Formation History of Infrared-Luminous Galaxies”. *ApJS* 154, 130–136. DOI: 10.1086/423322.
96. Eisenhardt, P. R. et al., 2004, “The Infrared Array Camera (IRAC) Shallow Survey”. *ApJS* 154, 48–53. DOI: 10.1086/423180.
97. Fazio, G. G., Ashby, M. L. N., Barmby, P., Hora, J. L., Huang, J.-S., Pahre, M. A., Wang, Z., Willner, S. P., Arendt, R. G., Moseley, S. H., Brodwin, M., Eisenhardt, P., Stern, D., Tollestrup, E. V., and Wright, E. L., 2004, “Number Counts at  $3\mu\text{m} < \lambda < 10\mu\text{m}$  from the Spitzer Space Telescope”. *ApJS* 154, 39–43. DOI: 10.1086/422585.
98. Fazio, G. G. et al., 2004, “The Infrared Array Camera (IRAC) for the Spitzer Space Telescope”. *ApJS* 154, 10–17. DOI: 10.1086/422843.
99. Huang, J.-S., Barmby, P., Fazio, G. G., Willner, S. P., Wilson, G., Rigopoulou, D., Alonso-Herrero, A., Dole, H., Egami, E., Le Floc’h, E., Papovich, C., Pérez-González, P. G., Rigby, J., Engelbracht, C. W., Gordon, K., Hines, D., Rieke, M., Rieke, G. H., Meisenheimer, K., and Miyazaki, S., 2004, “Infrared Array Camera (IRAC) Imaging of the Lockman Hole”. *ApJS* 154, 44–47. DOI: 10.1086/422882.
100. Ivison, R. J. et al., 2004, “Spitzer Observations of MAMBO Galaxies: Weeding Out Active Nuclei in Starbursting Protoellipticals”. *ApJS* 154, 124–129. DOI: 10.1086/423249.
101. Le Floc’h, E. et al., 2004, “Identification of Luminous Infrared Galaxies at  $1 < z < 1, 2, 3, 4$ ”. *ApJS* 154, 170–173. DOI: 10.1086/422424.
102. Serjeant, S. et al., 2004, “Submillimeter Detections of Spitzer Space Telescope Galaxy Populations”. *ApJS* 154, 118–123. DOI: 10.1086/422821.
103. Willner, S. P., Ashby, M. L. N., Barmby, P., Fazio, G. G., Pahre, M., Smith, H. A., Kennicutt Jr., R. C., Calzetti, D., Dale, D. A., Draine, B. T., Regan, M. W., Malhotra, S., Thornley, M. D., Appleton, P. N., Frayer, D., Helou, G., Stolovy, S., and Storrie-Lombardi, L., 2004, “Infrared Array Camera (IRAC) Observations of M81”. *ApJS* 154, 222–228. DOI: 10.1086/422913.
104. Wilson, G. et al., 2004, “Extremely Red Objects in the Lockman Hole”. *ApJS* 154, 107–111. DOI: 10.1086/422716.
105. Moy, E., Barmby, P., Rigopoulou, D., Huang, J.-S., Willner, S. P., and Fazio, G. G., 2003, “H-band observations of the Chandra Deep Field South”. *A&A* 403, 493–499. DOI: 10.1051/0004-6361:20030245.
106. Barmby, P., Holland, S., and Huchra, J. P., 2002, “M31 Globular Clusters in the Hubble Space Telescope Archive. II. Structural Parameters”. *AJ* 123, 1937–1952. DOI: 10.1086/339667.
107. Barmby, P., Perrett, K. M., and Bridges, T. J., 2002, “The ‘remarkable’ M31 globular cluster 037-B327 revisited”. *MNRAS* 329, 461–464. DOI: 10.1046/j.1365-8711.2002.04993.x.
108. Di Stefano, R., Kong, A. K. H., Garcia, M. R., Barmby, P., Greiner, J., Murray, S. S., and Primini, F. A., 2002, “Bright X-Ray Sources in M31 Globular Clusters”. *ApJ* 570, 618–636. DOI: 10.1086/339283.

109. Maraston, C., Kissler-Patig, M., Brodie, J., Barmby, P., and Huchra, J., 2002, “AGB Phase Transition in Globular Clusters: A Tool for Dating Starbursts”. *ApSS* 281, 137–138. DOI: 10.1023/A:1019512014958.
110. Barmby, P. and Huchra, J. P., 2001, “M31 Globular Clusters in the Hubble Space Telescope Archive. I. Cluster Detection and Completeness”. *AJ* 122, 2458–2468. DOI: 10.1086/323457.
111. Barmby, P., Huchra, J. P., and Brodie, J. P., 2001, “The M31 Globular Cluster Luminosity Function”. *AJ* 121, 1482–1496. DOI: 10.1086/319389.
112. Maraston, C., Kissler-Patig, M., Brodie, J. P., Barmby, P., and Huchra, J. P., 2001, “The AGB phase-transition outside the local group: K-band observations of young star clusters in NGC 7252”. *A&A* 370, 176–193. DOI: 10.1051/0004-6361:20010189.
113. Barmby, P. and Huchra, J. P., 2000, “Testing Population Synthesis Models with Globular Cluster Colors”. *ApJL* 531, L29–L32. DOI: 10.1086/312511.
114. Barmby, P., Huchra, J. P., Brodie, J. P., Forbes, D. A., Schroder, L. L., and Grillmair, C. J., 2000, “M31 Globular Clusters: Colors and Metallicities”. *AJ* 119, 727–747. DOI: 10.1086/301213.
115. Forbes, D. A., Masters, K. L., Minniti, D., and Barmby, P., 2000, “The elliptical galaxy formerly known as the Local Group: merging the globular cluster systems”. *A&A* 358, 471–480.
116. Jha, S. et al., 1999, “The Type IA Supernova 1998BU in M96 and the Hubble Constant”. *ApJS* 125, 73–97. DOI: 10.1086/313275.
117. Barmby, P. and Huchra, J. P., 1998, “Kinematics of the Hercules supercluster”. *AJ* 115, 6. DOI: 10.1086/300179.

## Conference presentations

1. Barmby, P., 2017, “The physics of nearby galaxies”. In: CAM Graduate Student Physics Conference (invited talk). Washington.
2. Barmby, P., **Arnason, R., Rafiei Ravandi, M., Rahmani, S., and Vulic, N.**, 2017, “Andromeda IR-X”. In: Large Surveys of the Andromeda Galaxy. Leiden.
3. **Kiar, A.** and Barmby, P., 2017, “Deconstructing a galaxy: colour distributions of point sources in Messier 83”. In: 68th International Astronautical Congress. Adelaide.
4. **Arnason, R.**, Barmby, P., Maccarone, T., and Zepf, S., 2016, “Identifying X-ray Binaries in the Sculptor Dwarf Spheroidal Galaxy”. In: Canadian Astronomical Society meeting. Winnipeg.
5. Barmby, P. and **Rafiei Ravandi, M.**, 2016, “Stellar populations in the outskirts of M31: the mid-infrared view”. In: IAU Symposium 321: Formation and Evolution of Galaxy Outskirts. Toledo.
6. Barmby, P., **Rahmani, S., Rafiei Ravandi, M.**, Nandez, J.L.A., **Vulic, N.**, and **Arnason, R.**, 2016, “Pieces of Andromeda: machine-learning and big data techniques applied to M31”. In: Canadian Astronomical Society meeting. Winnipeg.
7. **Kiar, A.** and Barmby, P., 2016, “Clustering a Nearby Galaxy”. In: ASTRO 2016: 17th Canadian Astronautics & Space Institute conference. Ottawa.
8. **Rahmani, S.**, Teimoorinia, H., and Barmby, P., 2016, “Mining in nearby galaxies”. In: Canadian Astronomical Society meeting. Winnipeg.
9. **Rahmani, S.**, Teimoorinia, H., Peeters, E., and Barmby, P., 2016, “Data mining in nearby galaxies”. In: Statistical Challenges in Modern Astronomy VI. Pittsburgh.
10. Barmby, P., **Hemachandra, D.**, Peeters, E., Willner, S. P., Ashby, M., Smith, H. A., Gordon, K. D., Smith, D. A., and Fazio, G. G., 2015, “The M31 nucleus in the mid-infrared”. In: American Astronomical Society Meeting Abstracts. Vol. 225, 429.05.
11. Boyer, M. L., McQuinn, K. B. W., Barmby, P., Bonanos, A. Z., Gehrz, R. D., Gordon, K. D., Groenewegen, M. A. T., Lagadec, E., Lennon, D. J., Marengo, M., McDonald, I., Meixner, M., Skillman, E. D., Sloan, G. C., Sonneborn, G., van Loon, J. T., and Zijlstra, A., 2015, “DUSTINGS Reveals Dust Production in Very Metal Poor Galaxies”. In: American Astronomical Society Meeting Abstracts. Vol. 225, 342.24.



12. **Rafiei Ravandi, M.**, Barmby, P., Ashby, M., Davidge, T., Laine, S. J., and Zhang, J., 2015, “Extending the Surface Brightness Profile of the Andromeda Galaxy Using Spitzer-IRAC Observations”. In: American Astronomical Society Meeting Abstracts. Vol. 225, 446.03.
13. **Vulic, N.**, Barmby, P., and Gallagher, S.C., 2015, “Over ‘1001011000’ Chandra X-ray Point Sources in M31: Into the Faint Abyss”. In: Canadian Astronomical Society meeting. Hamilton.
14. Barmby, P., **Lianou, S.**, and **Taylor, J.C.**, 2014, “Imagecube: an astronomical Python package for organizing and processing multi-wavelength astronomical data”. In: Canadian Astronomical Society meeting. Quebec.
15. Boyer, M. L., McQuinn, K. B., Barmby, P., Bonanos, A. Z., Gehrz, R. D., Gordon, K. D., Groenewegen, M., Lagadec, E., Lennon, D., Marengo, M., Meixner, M., Skillman, E. D., Sloan, G. C., Sonneborn, G., van Loon, J. T., and Zijlstra, A., 2014, “Discovery of Extreme AGB Stars in the Dwarf Galaxies of the Local Group: First Results from the DUST In Nearby Galaxies with Spitzer (DUSTINGS) program”. In: American Astronomical Society Meeting Abstracts. Vol. 223, 355.07.
16. **Lianou, S.**, Barmby, P., Remy-Ruyer, A., Madden, S., Galliano, F., and Leboutellier, V., 2014, “Star formation and interstellar medium in NGC1569”. In: European Week of Astronomy and Space Science meeting. Geneva.
17. **Lianou, S.**, Xilouris, E., Madden, S., and Barmby, P., 2014, “Dust and gas in early-type galaxies”. In: Canadian Astronomical Society meeting. Quebec.
18. **Rahmani, S.** and Barmby, P., 2014, “Which Star Formation Law in M31?” In: Galactic and Extragalactic Star Formation. Marseille.
19. **Vulic, N.**, Gallagher, S., and Barmby, P., 2014, “Faint X-Ray Binaries and Their Optical Counterparts in M31”. In: AAS/High Energy Astrophysics Division. Vol. 14. AAS/High Energy Astrophysics Division, 110.05.
20. Barmby, P., 2013, “Comparing H II regions in M31 and NGC 5128”. In: “Science with SITELLE” workshop. Wendake, Quebec.
21. **Hemachandra, S.**, Barmby, P., and Peeters, E., 2013, “Mysterious PAHs in M31”. In: Canadian Astronomical Society meeting. Vancouver.
22. **Lianou, S.**, Barmby, P., Madden, S., and Remy, A., 2013, “*Herschel* Observations of Super Star Clusters in NGC 1569”. In: Canadian Astronomical Society meeting. Vancouver.
23. **Lianou, S.**, Barmby, P., Madden, S., and Remy, A., 2013, “*Herschel* Observations of Super Star Clusters in NGC 1569”. In: Origins Star Formation Jamboree. Hamilton.
24. **Lianou, S.**, Barmby, P., Madden, S., and Remy, A., 2013, “Probing the Interstellar Medium of the NGC1569 Super Star Cluster Population with *Herschel*”. In: Hellenic Astronomical Society 11th meeting. Athens, Greece.
25. **Lianou, S.**, Barmby, P., and **Taylor, J.C.**, 2013, “Imagecube: an astropy affiliated package”. In: The 11th Hellenic Astronomical Conference. Athens, Greece, 27–27.
26. Marengo, M., Evans, N. R., Matthews, L. D., Bono, G., Barmby, P., Welch, D. L., Romaniello, M., Su, K. Y. L., Fazio, G. G., and Huelsman, D., 2013, “Evidence for Pulsation-Driven Mass Loss from  $\delta$  Cephei”. In: Stellar Pulsations: Impact of New Instrumentation and New Insights. Ed. by J. C. Suárez, R. Garrido, L. A. Balona, and J. Christensen-Dalsgaard. Vol. 31. Advances in Solid State Physics, 99. DOI: 10.1007/978-3-642-29630-7\_20.
27. **Rahmani, S.** and Barmby, P., 2013, “Testing the Extended Schmidt-Kennicutt Law in M31”. In: Canadian Astronomical Society meeting. Vancouver.
28. **Vulic, N.**, Barmby, P., and Gallagher, S.C., 2013, “Searching for Faint X-ray Binaries in M31”. In: Canadian Astronomical Society meeting. Vancouver.
29. **Agar, J.** and Barmby, P., 2012, “Comparisons of M31 Globular Clusters With and Without X-ray Sources”. In: Canadian Astronomical Society meeting. Calgary.

30. **Azimlu, M., Marciniak, R.,** and Barmby, P., 2012, “New Catalog of HII Regions in M31”. In: “The Great Andromeda Galaxy” Workshop. Princeton.
31. Barmby, P., 2012, “M31 in the Mid-Infrared”. In: “The Great Andromeda Galaxy” Workshop. Princeton.
32. Boyer, M. L., Barmby, P., Bonanos, A. Z., Gehrz, R. D., Gordon, K. D., Groenewegen, M. A. T., Lagadec, E., Lennon, D. J., Marengo, M., McQuinn, K., Meixner, M., Skillman, E. D., Sloan, G. C., van Loon, J. T., and Zijlstra, A. A., 2012, “A Complete Census of Dusty Evolved Stars in Local Group Dwarf Galaxies with Spitzer: Description and First Results”. In: American Astronomical Society Meeting Abstracts #219. Vol. 219, 244.16.
33. **Croley, M.,** Barmby, P., **Azimlu, M.,** and Rosolowsky, E., 2012, “The M31 Abundance Gradient”. In: Gemini Science and Users’ Meeting. San Francisco.
34. **Croley, M.,** Barmby, P., **Azimlu, M.,** and Rosolowsky, E., 2012, “The M31 Abundance Gradient”. In: Canadian Astronomical Society meeting. Calgary.
35. **Farhani, G.,** Barmby, P., and Peng, E., 2012, “The Star Formation Rate in NGC 5128”. In: Canadian Astronomical Society meeting. Calgary.
36. **Vulic, N.,** Barmby, P., and Gallagher, S.C., 2012, “A Stacking Analysis of Star Clusters in M51: The Search for X-ray Binaries”. In: “X-ray Binaries: 2012 Chandra Science Workshop”. Boston.
37. **Vulic, N.,** Barmby, P., and Gallagher, S.C., 2012, “A Stacking Analysis of Star Clusters in M51: The Search for X-ray Binaries”. In: Canadian Astronomical Society meeting. Calgary.
38. Ashby, M., Mahajan, S., Smith, H. A., Willner, S., Fazio, G. G., Raychaudhury, S., Zezas, A., Barmby, P., Bonfini, P., Cao, C., Gonzalez-Alfonso, E., Ishihara, D., Kaneda, H., Lyttle, V., Madden, S., Papovich, C., Sturm, E., Surace, J., Wu, H., and Zhu, Y., 2011, “The Star Formation Reference Survey – Survey Design and Basic Data”. In: American Astronomical Society Meeting Abstracts #218, 130.03.
39. **Azimlu, M.,** Barmby, P., and **Marciniak, R.,** 2011, “New Catalog of H II Regions in M31”. In: American Astronomical Society Meeting Abstracts #218, 106.02.
40. **Azimlu, M., Marciniak, R.,** and Barmby, P., 2011, “A New Catalog of HII Regions in M31”. In: Canadian Astronomical Society meeting. London.
41. Barmby, P., Cami, J., and Gallagher, S.C., 2011, “Citizen science projects for non-science astronomy students”. In: The Western Conference on Science Education. London.
42. Barmby, P. and **Jalilian, F. F.,** 2011, “Globular Cluster Colors Versus Population Synthesis Models”. In: American Astronomical Society Meeting Abstracts #218, 133.12.
43. Barmby, P. and **Jalilian, F.F.,** 2011, “Globular Cluster Colors Versus Populations Synthesis Models”. In: Canadian Astronomical Society meeting. London.
44. **Hill, A.,** Gallagher, S., Barmby, P., **Fedotov, K.,** and Tzanavaris, P., 2011, “Characterizing the Nuclear Structure and Activity in Compact Group Galaxies: A Case Study of HCG 7, HCG 42, and HCG 59”. In: Canadian Astronomical Society meeting. London.
45. Marengo, M., Evans, N. R., Barmby, P., Matthews, L. D., Bono, G., Welch, D. L., Romaniello, M., Huelsman, D., Su, K. Y. L., and Fazio, G. G., 2011, “The Delta Cephei Infrared Nebula”. In: American Astronomical Society Meeting Abstracts #217. Vol. 43, 434.19.
46. Marengo, M., Evans, N. R., Matthews, L. D., Bono, G., Barmby, P., Welch, D. L., Romaniello, M., Su, K. Y. L., Fazio, G. G., and Huelsman, D., 2011, “Evidence for Pulsation-Driven Mass Loss from delta Cephei”. ArXiv e-prints.
47. **Shiu, H.** and Barmby, P., 2011, “Mass-loss rates of AGB stars in six dwarf spheroidal galaxies”. In: Canadian Astronomical Society meeting. London.
48. **Vulic, N.,** Barmby, P., and Gallagher, S., 2011, “Low-Mass X-Ray Binaries in Globular Cluster systems in M51”. In: Canadian Astronomical Society meeting. London.
49. **Azimlu, M.,** Fich, M., and Barmby, P., 2010, “Study of Molecular Clouds Associated with HII Regions: Initial Characteristics of Massive Star Forming Regions”. In: “From Stars to Galaxies”. Gainesville, FL.

50. Barmby, P., 2010, "Online Homework Systems for Introductory Astronomy". In: "Cosmos in the Classroom". Boulder, CO.
51. Barmby, P., 2010, "Spitzer Colors of Everything in the Universe: A Field Guide for the Perplexed". In: From Stars to Galaxies: Connecting our Understanding of Star and Galaxy Formation.
52. Dominguez, A., Primack, J. R., Rosario, D., Prada, F., Gilmore, R., Faber, S. M., Koo, D. C., Somerville, R. S., Perez-Torres, M., Perez-Gonzalez, P., Huang, J. S., Davis, M., Guhathakurta, P., Barmby, P., Con-  
selice, C. J., Lozano, M., Newman, J. A., and Cooper, M. C., 2010, "Extragalactic Background Light In-  
ferred from AEGIS Galaxy SED-type Fractions". In: 25th Texas Symposium on Relativistic Astrophysics.
53. Huelsman, D. M., Marengo, M., Evans, N. R., Barmby, P., Bono, G., Welch, D. L., Romaniello, M., and  
Fazio, G. G., 2010, "Observations of Cepheids with Spitzer". In: American Astronomical Society Meeting  
Abstracts #215. Vol. 42, 417.06.
54. Mahajan, S., Ashby, M.L.N., Willner, S.P., Raychaudhury, S., Barmby, P., Bonfini, P., Cao, C., Fazio, G.G.,  
Gonzalez-Alfonso, E., Kaneda, H., Madden, S.C., Papovich, C., Smith, H.A., Sturm, E., Wu, H., Yinnan,  
Z., and Zezas, A., 2010, "Star Formation Reference Survey". In: "Extragalactic Star Formation". Windsor,  
UK.
55. Remage Evans, N., Marengo, M., Barmby, P., Matthews, L. D., Bono, G., Welch, D. L., Romaniello, M.,  
Huelsman, D., Su, K. Y. L., and Fazio, G., 2010, "Discovery Of An Infrared Bow Shock Associated With  
Delta Cephei". In: American Astronomical Society Meeting Abstracts #216. Vol. 41, 426.01.
56. **Shiu, H.** and Barmby, P., 2010, "AGB Stars in the Fornax Dwarf Spheroidal Galaxy". In: Canadian As-  
tronomical Society meeting. Halifax.
57. Smith, D. A., Gordon, K. D., Nagy, Z., Rieke, G., Misselt, K., Engelbracht, C., and Barmby, P., 2010,  
"Mid-Infrared Features of M33 HII and Diffuse Regions: Tracing Dust Composition and Formation". In:  
American Astronomical Society Meeting Abstracts #215. Vol. 42, 431.22.
58. Barmby, P., Ashby, M. L. N., Hora, J. L., Gordon, K. D., Jarrett, T. H., and **Shiu, H.**, 2009, "Local  
Group Dwarf Spheroidal Galaxies as Seen by *Spitzer*". In: American Astronomical Society Meeting Ab-  
stracts #214. Vol. 214, 419.03.
59. Barmby, P., Bellazzini, M., Cohen, J.G., Hodge, P., Perina, S., Puzia, T., and Strader, J., 2009, "HST Ob-  
servations of Young Star Clusters in M31". In: "Unveiling the Mass: Extracting and Interpreting Galaxy  
Masses". Kingston.
60. Barmby, P., Perina, S., Bellazzini, M., Cohen, J.G., Hodge, P., Puzia, T., and Strader, J., 2009, "Structure  
of Young Star Clusters in M31". In: Canadian Astronomical Society meeting. Toronto.
61. Marengo, M., Evans, N. R., Barmby, P., Bono, G., and Welch, D., 2009, "Spitzer Detection of Cepheid Cir-  
cumstellar Emission". In: The Evolving ISM in the Milky Way and Nearby Galaxies.
62. Prada Moroni, P. G., Barmby, P., Bono, G., Fazio, G., Ferraro, I., Marengo, M., and Buonanno, R., 2009,  
"Mid-IR excess in the globular cluster 47 Tuc ." MemSAI 80, 117.
63. Remage Evans, N., Marengo, M., Barmby, P., Bono, G., Welch, D., and Romaniello, M., 2009, "Spitzer  
Observations of Galactic Classical Cepheids". In: American Astronomical Society Meeting Abstracts #214.  
Vol. 214, 430.02.
64. Barmby, P., 2008, "Nearby Galaxies: Beyond Spitzer and Herschel". In: Far-Infrared Discipline Working  
Group meeting. Waterloo.
65. Barmby, P., 2008, "Star Formation in M31". In: Ontario Star Formation Jamboree. London.
66. Barmby, P., Marengo, M., van Loon, J. T., Polomski, E., Fazio, G. G., Gehrz, R., Woodward, C. E., and  
Boyer, M., 2008, "The elusive intracluster medium in globular clusters". In: 37th COSPAR Scientific As-  
sembly. Vol. 37, 191.
67. Marleau, F. R., Noriega-Crespo, A., Misselt, K., Gordon, K., Rieke, G. H., Barmby, P., Willner, S., and  
Engelbracht, C., 2008, "A Spatially Resolved Study of the Cold Dust in NGC~205". In: Infrared Diagnos-  
tics of Galaxy Evolution. Ed. by R.-R. Chary, H. I. Teplitz, and K. Sheth. Vol. 381. Astronomical Society  
of the Pacific Conference Series, 177.

68. Patel, B., Liu, J., Di Stefano, R., Primini, F. A., Nelson, T., Orio, M., Barmby, P., Kong, A. K. H., and Scoles, S., 2008, "Supersoft Sources and Quasisoft Sources in M31: The Stellar Populations in which they Live". In: American Astronomical Society Meeting Abstracts #211. Vol. 211, 162.28.
69. Barmby, P., 2007, "Conference Summary (invited review)". In: "The Evolving ISM in the Milky Way and Nearby Galaxies". Pasadena.
70. Barmby, P., Ashby, M.L.N., Devereux, N., Fazio, G.G., Gordon, K.D., Peeters, E., Smith, H.A., Thilker, D.A., and Willner, S.P., 2007, "Initial Views of M31's Mysterious PAHs". In: "The Evolving ISM in the Milky Way and Nearby Galaxies". Pasadena.
71. Evans, N. R., Barmby, P., Marengo, M., Bono, G., Welch, D., and Romaniello, M., 2007, "Spitzer Observations of Classical Cepheids". In: American Astronomical Society Meeting Abstracts #210. Vol. 39, 112.
72. Marengo, M., Hora, J. L., Barmby, P., Willner, S. P., Allen, L. E., Schuster, M. T., and Fazio, G. G., 2007, "Spitzer/IRAC Characterization of Galactic AGB Stars". In: Why Galaxies Care About AGB Stars: Their Importance as Actors and Probes. Ed. by F. Kerschbaum, C. Charbonnel, and R. F. Wing. Vol. 378. Astronomical Society of the Pacific Conference Series, 80.
73. Pierce, C. M., Lotz, J. M., Laird, E. S., Lin, L., Nandra, K., Yan, R., Primack, J. R., Faber, S. M., Barmby, P., Park, S. Q., Willner, S. P., Gwyn, S., Koo, D. C., Coil, A. L., Cooper, M. C., Georgakakis, A., Koekemoer, A. M., Noeske, K. G., Weiner, B. J., and Willmer, C. N. A., 2007, "Host Galaxy Morphologies of X-Ray and Optical Spectra-Selected Active Galactic". In: Space Telescope Science Institute Symposium: Black Holes.
74. Smith, H. A., Ashby, M., Barmby, P., Cao, C., Chakrabarti, S., Fazio, G. G., Gonzalez-Alfonso, E., Huang, J. S., Madden, S., Noeske, K., Papovich, C., Pahre, M. A., Robitaille, T., Surace, J., Strum, E., Wang, Z., Whitney, B., Willner, S. P., Wu, H., and Zezas, A., 2007, "The Herschel Reference Bright Galaxy Survey". In: American Astronomical Society Meeting Abstracts. Vol. 39, 894.
75. Ashby, M., Arendt, R. G., Pipher, J. L., Forrest, W. J., Marengo, M., Barmby, P., Willner, S. P., Stauffer, J. R., and Fazio, G. G., 2006, "A Search for Faint, Diffuse Halo Emission in Edge-On Galaxies with Spitzer/IRAC". In: American Astronomical Society Meeting Abstracts. Vol. 38, 923.
76. Ashby, M., Dye, S., Huang, J., Eales, S., Willner, S. P., Webb, T. M., Barmby, P., Rigopoulou, D., Egami, E., McCracken, H., Lilly, S., Miyazaki, S., Brodwin, M., Blaylock, M., Cadien, J., and Fazio, G., 2006, "Identifying SCUBA Galaxies with Spitzer Observations of the CUDSS 14 h Field". In: American Astronomical Society Meeting Abstracts #208. Vol. 38, 145.
77. Barmby, P., Ashby, M. L., Pahre, M. A., Willner, S. P., Huchra, J. P., Gehrz, R. D., Polonski, E. F., Woodward, C. E., Humphreys, R. M., Gordon, K. D., Hinz, J. L., Engelbracht, C. W., Perez-Gonzalez, P. G., Rieke, G. H., Bianchi, L., and Thilker, D. H., 2006, "Mid-infrared Observations Of M31". In: American Astronomical Society Meeting Abstracts #208. Vol. 38, 94.
78. Barmby, P., Boyer, M. L., Bono, G., Ferraro, I., and Marengo, M., 2006, "Spitzer Observations of Galactic Globular Clusters". In: American Astronomical Society Meeting Abstracts. Vol. 38, 938.
79. Eisenhardt, P. R., Brodwin, M., Gonzalez, A., Stanford, S. A., Stern, D., Barmby, P., Dey, A., Brown, M. J., Huang, J., Jannuzi, B. T., and Pahre, M. A., 2006, "Clusters of Galaxies in the First Half of the Universe from the IRAC Shallow Survey". In: American Astronomical Society Meeting Abstracts. Vol. 38, 161.05.
80. Gorjian, V., Brodwin, M., Kochanek, C. S., Murray, S., Stern, D., Brand, K., Eisenhardt, P., Ashby, M., Barmby, P., Brown, M. J., Dey, A., Forman, W. R., Jannuzi, B. T., Jones, C., Kenter, A., Pahre, M. A., Shields, J. C., and Werner, M. W., 2006, "Mid-Infrared Properties of X-ray Sources". In: American Astronomical Society Meeting Abstracts. Vol. 38, 161.01.
81. Polonski, E., Gehrz, R. D., Woodward, C. E., Humphreys, R. M., Boyer, M., Brandl, B. R., van Loon, J., Fazio, G., Willner, S. P., Barmby, P., Ashby, M., Pahre, M., Rieke, G., Gordon, K., Hinz, J., Engelbracht, C., Alonso-Herrero, A., Misselt, K., Pérez-González, P. G., and Roellig, T., 2006, "Multi-Epoch Imaging

- and Spectroscopy of M33". In: *Astronomical Society of the Pacific Conference Series*. Ed. by L. Armus and W. T. Reach. Vol. 357, 196.
82. Rigby, J. R., Rieke, G. H., Pérez-González, P. G., Donley, J. L., Alonso-Hererro, A., Huang, J.-S., Barmby, P., and Fazio, G. G., 2006, "Optically-Faint AGN with Spitzer: SEDs, Redshifts, Luminosities, and Space Densities". In: *Astronomical Society of the Pacific Conference Series*. Ed. by L. Armus and W. T. Reach. Vol. 357, 284.
  83. Scoles, S., Patel, B., Di Stefano, R., Liu, J., Barmby, P., and Primini, F., 2006, "The Search for Optical Counterparts to Supersoft X-ray Sources near the Nucleus of M31". In: *American Astronomical Society Meeting Abstracts*. Vol. 38, 939.
  84. Barmby, P. et al., 2005, "Mid-Infrared Properties of X-ray Sources in the Extended Groth Strip". In: "Infrared Diagnostics of Galaxy Formation". Pasadena.
  85. Buckalew, B. et al., 2005, "Spitzer imagery of embedded ultra-young star clusters in M33". In: *Starbursts: From 30 Doradus to Lyman Break Galaxies*. Ed. by R. de Grijs and R. M. González Delgado. Vol. 329. *Astrophysics and Space Science Library*, 8P.
  86. Gehrz, R. D. et al., 2005, "Spitzer Images and Spectroscopy of M33". In: *American Astronomical Society Meeting Abstracts #206*. Vol. 37, 451.
  87. Pérez-González, P. G. et al., 2005, "Cosmological Surveys with the Spitzer Space Telescope". In: *Revista Mexicana de Astronomía y Astrofísica Conference Series*. Ed. by A. M. Hidalgo-Gómez, J. J. González, J. M. Rodríguez Espinosa, and S. Torres-Peimbert. Vol. 24, 205–209.
  88. Smith, H. A., Allen, L., Megeath, T., Barmby, P., Calvet, N., Fazio, G., Hartmann, L., Myers, P., Marengo, M., Gutermuth, R., Pipher, J., D'Alessio, P., Merin, B., Reach, B., Noriega-Crespo, A., Marston, T., and Muzerolle, J., 2005, "Star formation as seen by the Infrared Array Camera on Spitzer". In: *ESA Special Publication*. Ed. by A. Wilson. Vol. 577. *ESA Special Publication*, 197–200.
  89. Ashby, M. L. N., Pipher, J. L., Forrest, W. J., Arendt, R. G., Willner, S. P., Barmby, P., Stauffer, J. R., Smith, H. A., Bock, J. J., and Fazio, G. G., 2004, "Mid-Infrared Observations of Extended Light in the Spiral Galaxy NGC 5907". In: *American Astronomical Society Meeting Abstracts*. Vol. 36. *Bulletin of the American Astronomical Society*, 1444.
  90. Ashby, M. L. N., Pipher, J. L., Forrest, W. J., Stauffer, J. R., Barmby, P., Willner, S. P., Fazio, G. G., Smith, H. A., Arendt, R. G., and Bock, J. J., 2004, "Mid-Infrared Observations of the Halo of NGC 5907". In: *American Astronomical Society Meeting Abstracts #204*. Vol. 36, 717.
  91. Barmby, P., Huang J.-S. Fazio, G.G., Pahre, M.A., and Willner, S.P., 2004, "Deep Mid-infrared Imaging with the Spitzer Space Telescope". In: *Canadian Astronomical Society meeting*. Winnipeg.
  92. Barmby, P., Laine, S., Lacy, M., and IRAC team, 2004, "Doing Science with the Spitzer Space Telescope". In: *Canadian Astronomical Society meeting*. Winnipeg.
  93. Barmby, P., Wang, Z., Marengo, M., and Ashby, M. L., 2004, "SIP: a modern flexible data pipeline". In: *Optimizing Scientific Return for Astronomy through Information Technologies*. Ed. by P. J. Quinn and A. Bridger. Vol. 5493. *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, 460–466. DOI: 10.1117/12.550468.
  94. Carey, S. J. et al., 2004, "Observing with the infrared array camera (IRAC) on the Spitzer Space Telescope". In: *Optical, Infrared, and Millimeter Space Telescopes*. Ed. by J. C. Mather. Vol. 5487. *Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series*, 211–222. DOI: 10.1117/12.550968.
  95. Fazio, G. G. et al., 2004, "In-Flight Performance of the Infrared Array Camera (IRAC) for the Spitzer Space Telescope". In: *American Astronomical Society Meeting Abstracts #204*. Vol. 36, 699.
  96. Gordon, K., Rieke, G., Krause, O., Engelbracht, C., Hinz, J., Misselt, K., Perez-Gonzalez, P., Su, K., Young, E., Latter, W., Levine, D., Stolovy, S., Noriega-Crespo, A., Hines, D., Werner, M., Thilker, D., Bianchi, L., Braun, R., Mould, J., and Barmby, P., 2004, "The Multiwavelength View of M31 including New Spitzer/MIPS Infrared Images". In: *American Astronomical Society Meeting Abstracts*. Vol. 36. *Bulletin of the American Astronomical Society*, 141.04.

97. Hora, J. L. et al., 2004, "In-flight performance and calibration of the Infrared Array Camera (IRAC) for the Spitzer Space Telescope". In: Optical, Infrared, and Millimeter Space Telescopes. Ed. by J. C. Mather. Vol. 5487. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 77–92. DOI: 10.1117/12.550744.
98. Pahre, M. A., Ashby, M. L. N., Barmby, P., Fazio, G. G., Huang, J.-S., Smith, H. A., Wang, Z., Willner, S. P., Pipher, J. L., Forrest, W. J., Arendt, R. G., Fixsen, D. J., Moseley, S. H., Eisenhardt, P. R. M., Brodwin, M., Gorjian, V., Stern, D., Tollestrup, E. V., and Wright, E. L., 2004, "IRAC Extragalactic GTO Program: From Nearby Galaxies to the High Redshift Universe". In: American Astronomical Society Meeting Abstracts #204. Vol. 36, 700.
99. Patten, B. M., Hora, J. L., Fazio, G. G., Barmby, P., Wang, Z., and Makovoz, D., 2004, "Normal and unusual transient events in IRAC images". In: Optical, Infrared, and Millimeter Space Telescopes. Ed. by J. C. Mather. Vol. 5487. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 223–233. DOI: 10.1117/12.550543.
100. Pipher, J. L. et al., 2004, "Comparison of laboratory and in-flight performance of infrared array camera (IRAC) detector arrays on Spitzer Space Telescope". In: Optical, Infrared, and Millimeter Space Telescopes. Ed. by J. C. Mather. Vol. 5487. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 234–243. DOI: 10.1117/12.551599.
101. Polomski, E., Gehr, R. D., Humphreys, R. M., Woodward, C. E., Fazio, G., Willner, S., Barmby, P., Ashby, M., Pahre, M., van Loon, J., Rieke, G., Gordon, K., Hinz, J., Engelbracht, C. W., Misselt, K. A., Perez, P. G., Brandl, B. R., Roellig, T., and Alonso-Herrero, A., 2004, "The Spitzer Space Telescope M33 Project: First Epoch Images". In: American Astronomical Society Meeting Abstracts #204. Vol. 36, 811.
102. Roscioli, M., Barmby, P., Huang, J.-S., Ashby, M. L. N., and Fazio, G. G., 2004, "Morphologies of Mid-Infrared Galaxies". In: American Astronomical Society Meeting Abstracts. Vol. 36. Bulletin of the American Astronomical Society, 1450.
103. Stern, D., Eisenhardt, P., Gorjian, V., Kochanek, C. S., Eisenstein, D., Barmby, P., Brodwin, M., Brown, M. J. I., Caldwell, N., Cool, R., Dey, A., Green, P., Jannuzi, B. T., Murray, S., Pahre, M. A., and Willner, S. P., 2004, "Mid-Infrared Selection of Active Galaxies". In: American Astronomical Society Meeting Abstracts. Vol. 36. Bulletin of the American Astronomical Society, 1388.
104. Thilker, D. A. et al., 2004, "A complete census of massive star formation in M31 and M33: The relation between star formation and ISM properties". In: American Astronomical Society Meeting Abstracts. Vol. 36, 141.05.
105. Barmby, P., 2003, "Globular Cluster Systems of Spirals". In: Extragalactic Globular Cluster Systems. Ed. by M. Kissler-Patig, 143. DOI: 10.1007/10857603\_24.
106. Fazio, G. G. et al., 2003, "In-flight Performance of the Infrared Array Camera (IRAC) for SIRTf". In: American Astronomical Society Meeting Abstracts. Vol. 35, 1242.
107. Hora, J. L. et al., 2003, "Performance of the infrared array camera (IRAC) for SIRTf during instrument integration and test". In: IR Space Telescopes and Instruments. Ed. by J. C. Mather. Vol. 4850. Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series, 83–97.
108. Kong, A., di Stefano, R., Friedman, R., and Barmby, P., 2003, "Luminous Extragalactic X-Ray Globular Clusters". In: IAU Joint Discussion. Vol. 6.
109. Kuntz, K. D., Barmby, P., Mukai, K., and Snowden, S. L., 2003, "Optical Identification of the X-ray Point Source Population of M101". In: American Astronomical Society Meeting Abstracts. Vol. 35, 116.02.
110. Willner, S. P. et al., 2003, "Extragalactic Science Results with IRAC". In: American Astronomical Society Meeting Abstracts. Vol. 35, 1244.
111. Barmby, P., 2002, "M31 Globular Cluster Metallicities and Ages". In: Extragalactic Star Clusters. Ed. by D. P. Geisler, E. K. Grebel, and D. Minniti. Vol. 207. IAU Symposium. Pucón, Chile, 58.

112. Di Stefano, R., Greiner, J., Kong, A., Garcia, M. R., Primini, F. A., Barmby, P., Murray, S. S., and Curry, S., 2002, "Chandra's View of Luminous Supersoft X-Ray Sources in M31". In: APS Meeting Abstracts, 17072.
113. Friedman, R. B., Di Stefano, R., Kong, A. K. H., Barmby, P., and Kundu, A., 2002, "Globular Cluster X-Ray Sources and Supersoft Sources in NGC 4472 and M87". In: American Astronomical Society Meeting Abstracts. Vol. 34. Bulletin of the American Astronomical Society, 1200.
114. Garcia, M. R., Kong, A., Dosaj, A., McClintock, J. E., Primini, F. A., Di Stefano, R., Barmby, P., and Murray, S. S., 2002, "Chandra Synoptic Observations of M31". In: APS Meeting Abstracts, 11008.
115. Barmby, P., 2001, "Up-close and Personal Views of M31 Globular Clusters". In: Canadian Astronomical Society meeting. Hamilton.
116. Barmby, P., Huang, J.-S., Willner, S. P., and Eisenhardt, P., 2001, "An Optical/Near-Infrared Survey of the Lockman Hole". In: American Astronomical Society Meeting Abstracts. Vol. 33. Bulletin of the American Astronomical Society, 1315.
117. Di Stefano, R., Kong, A.K.H., Garcia, M.R., Barmby, P., Grenier, J., Murray, S.S., and Primini, F.A., 2001, "Bright X-Ray Sources in M31 Globular Clusters". In: "New Visions of the X-ray Universe in the XMM-Newton and Chandra Era". Noordwijk, The Netherlands.
118. Di Stefano, R., Kong, A.K.H., Garcia, M.R., Barmby, P., Grenier, J., Murray, S.S., and Primini, F.A., 2001, "Bright X-Ray Sources in M31 Globular Clusters". In: "Two Years of Science with Chandra". Washington.
119. Garcia, M. R., Kong, A., Primini, F. A., Barmby, P., Di Stefano, R., McClintock, J. E., and Murray, S. S., 2001, "Chandra Observations of M31\* and M31 Transients". In: Two Years of Science with Chandra.
120. Polonski, E., Gehrz, R. D., Humphreys, R., Woodward, C. E., Jones, T. J., Lyke, J., Eicher, K., Willner, S., Barmby, P., Huchra, J., and Strom, S., 2001, "SQUID Imaging of the M 33 Core". In: American Astronomical Society Meeting Abstracts #198. Vol. 33. Bulletin of the American Astronomical Society, 796.
121. Barmby, P., 2000, "Globular cluster ages and the formation of M31". In: American Astronomical Society Meeting Abstracts. Vol. 32. Bulletin of the American Astronomical Society, 1440.
122. Barmby, P. and Huchra, J.P., 2000, "Testing Population Synthesis Models With Globular Cluster Colors". In: "The Evolution of Galaxies: 1. Observational Clues". Granada, Spain.
123. Barmby, P., Huchra, J.P., and Brodie, J.P., 2000, "Radial Variation in the M31 Globular Cluster Luminosity Function". In: "Victoria Conference on Computational Cosmology". Victoria, Canada.
124. Barmby, P., Huchra, J. P., Brodie, J. P., Schroder, L. L., Grillmair, C. J., and Forbes, D. A., 1999, "Colors and Metallicities of M31 Globular Clusters". In: American Astronomical Society Meeting Abstracts #194. Vol. 31. Bulletin of the American Astronomical Society, 844.
125. Barmby, P. and Huchra, J.P., 1997, "Kinematics of the Hercules Supercluster". In: "Clusters of Galaxies at Low and High Redshifts". Ruidoso, New Mexico.