

# Pauline Barmby

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Faculty of Science/Department of Physics & Astronomy  
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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, astroinformatics

## Research Grants

Nearby Galaxies Observed with Real & Virtual Telescopes <i>PI</i>	\$100k	NSERC Discovery Grant	2018–2023
The Cluster Population of UGC 2885 <i>Co-I</i>	\$69k	Space Telescope Science Inst. (STScI)	2017–2019
Assembling the Big Picture of Nearby Galaxies <i>PI</i>	\$135k	NSERC Discovery Grant	2013–2018
Far Out: Tracing the Mass in M31 <i>PI*</i>	\$16k	Spitzer Science Center	2012
Astroinformatics <i>PI</i>	\$84k	Western University ADF	2012–2014
Star Formation Histories of Nearby Galaxies <i>PI</i>	\$125k	NSERC Discovery Grant	2008–2013
Star Formation Histories of Nearby Galaxies <i>PI</i>	\$140k	Ontario Early Researcher Award	2008–2013
The Local Group Dwarf Spheroidals <i>PI*</i>	\$55k	Spitzer Science Center	2008–2011
Old and New Stars Revealed by Infrared Imaging <i>PI</i>	\$4k	Western University ADF	2008–2009
Star Formation & Star Clusters in Nearby Galaxies <i>PI</i>	\$40k	NSERC Discovery Grant	2007–2008
Mass Loss in Cepheid Variables <i>Co-I</i>	\$28k	Spitzer Science Center	2006–2009
A Complete Map of M31 with IRAC <i>PI</i>	\$74k	Spitzer Science Center	2005–2007
Imaging of the Extended Groth Strip <i>Co-I</i>	\$7k	Chandra X-ray Center	2004–2006
The Most Massive Star Clusters <i>Co-I</i>	\$18k	STScI	2004–2006
Stellar Populations in M101 <i>Co-I</i>	\$16k	STScI	2002–2005

*Values are totals over grant lifetime allocated to my research. PI\*=proposal PI, funding allocated only to US Co-Is per NASA regulation.*

## 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

## 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 PhD comprehensive exam reports (1–2/yr)	2012–present
Reader	Western Astronomy MSc project reports (1/yr)	2008–present
Reader	Western Physics & Astronomy undergraduate 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; withdrew)	2017–2018
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

### 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

## Professional Activities

### University service as Science acting dean, 2017–18

Faculty leadership	initiated science policy training for faculty increased Science involvement in Western's Indigenous Strategic Plan led collaborative construction, increased dissemination of Faculty budget plan developed structure and mandate for new Science Technology Services unit initiated renewal: Centre for Environment & Sustainability, Africa Institute oversaw faculty & staff hiring, including 5 leadership appointments
personnel management	leadership & performance evaluation of associate deans, directors, dept. chairs mentorship & performance evaluation of new faculty members
program oversight	participated in research centre and graduate program reviews oversaw launch of data science and data analytics programs
external advocacy	represented Science in ceremonies, government & donor visits; public events
University leadership	participated in Faculty reviews, decanal & provost selection, University Senate served on research institute boards, coordinated inter-Faculty programs

### University service as Science associate dean for graduate and postdoctoral studies, 2015–17

Faculty leadership	contributor to Faculty budget planning, including new research chair proposals led successful hire of graduate recruitment officer adjudicated faculty and staff award nominations, internal research proposals served as Dean's designate on 5 faculty search committees
personnel management	completed performance reviews for probationary faculty and professional staff
program management	oversaw development of 5 new graduate programs supported 6 Science program reviews, reviewed 1 external program
program coordination	facilitated communications between & among Science programs, School of Graduate & Postdoctoral Studies, other Faculties
postdoc coordination	mentored individual postdocs, organized networking events
financial management	provided academic oversight of Faculty of Science graduate funding
University leadership	served on Senate Subcommittee for University Program Review-Graduate, Graduate Education Council Policy, Postdoc Mentoring committees

### Departmental/University service as faculty member

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	Society for Teaching and Learning in Higher Education (STLHE) conference	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	Gemini and Canada-France-Hawaii Telescope proposals (1–2/yr)	2012–present
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
Host	Western Science total solar eclipse event	2017
Speaker	Hamilton Amateur Astronomers	2017
Speaker	Royal Astronomical Society of Canada London Centre	2016
Speaker	YMCA YMAP program, careers month	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> , York <i>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

## Bibliometrics

	NASA ADS (all)	Google Scholar (all)	Google Scholar (since 2013)
Citations	11297	11480	4666
h-index	45	51	29
i10-index	95	101	65

# Publications

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

Key to PB roles in publications:

- (1) performed majority of data analysis and manuscript writing
- (2) supervised trainee research
- (3) substantial contributions to manuscript writing
- (4) substantial contributions to data analysis
- (5) recommendations for analysis and/or editorial contributions to manuscript writing
- (6) contributed data and/or participated in observing proposal preparation
- (7) contributed software

## Submitted refereed publications

1. Mahajan, S., Ashby, M., Willner, S., Barmby, P., Maragkoudakis, A., Raychaudhury, S. “The Star Formation Reference Survey III. A multi-wavelength view of dust and star formation in nearby galaxies” 2017, ApJ, submitted. *Role: (3, 4)*
2. Saintonge, A. et al. “JINGLE, a JCMT legacy survey of dust and gas for galaxy evolution studies: I. Survey overview and first results” 2017, MNRAS, submitted. *Role: (5, 6)*
3. **Rahmani, S.**, Teimoorinia, H., Barmby, P. “Classifying galaxy spectra at  $0.5 < z < 1$ : an unsupervised approach” 2016, MNRAS, submitted. *Role: (2, 3, 4)*

## Refereed publications

4. Boselli, A. et al. “A Virgo Environmental Survey Tracing Ionised Gas Emission (VESTIGE).I. Introduction to the Survey” 2018, A&A, in press (arxiv:1802.02829). *Role: (6)*
5. The Astropy Collaboration et al. “The Astropy Project: Building an inclusive, open-science project and status of the v2.0 core package” 2018, ApJ, in press (arxiv:1801.02634). *Role: (5, 7)*
6. **Vulic, N.**, Barmby, P., Gallagher, S. C. “Milky Way globular cluster metallicity and low-mass X-ray binaries: the red giant influence” 2018, MNRAS, 473, 4900–4925, DOI: 10.1093/mnras/stx2626. *Role: (2, 5)*
7. **Kiar, A. K.**, Barmby, P., **Hidalgo, A.** “Deconstructing a galaxy: colour distributions of point sources in Messier 83” 2017, MNRAS, 472, 1074–1087, DOI: 10.1093/mnras/stx2037. *Role: (2, 3, 4)*
8. Hart, E. M., Barmby, P., LeBauer, D., Michonneau, F., Mount, S., Mulrooney, P., Poisot, T., Woo, K. H., Zimmerman, N. B., Hollister, J. W. “Ten Simple Rules for Digital Data Storage” 2016, PLoS Comput. Biol. 12, e1005097, DOI: 10.1371/journal.pcbi.1005097. *Role: (3)*
9. **Lianou, S.**, Xilouris, E., Madden, S. C., Barmby, P. “The dustier early-type galaxies deviate from late-type galaxies’ scaling relations” 2016, MNRAS, 461, 2856–2866, DOI: 10.1093/mnras/stw1467. *Role: (2, 3)*
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., van der Werf, P. “The JCMT nearby galaxies legacy survey - X. Environmental effects on the molecular gas and star formation properties of spiral galaxies” 2016, MNRAS, 456, 4384–4406, DOI: 10.1093/mnras/stv2958. *Role: (5, 6)*
11. **Rafiei Ravandi, M.**, Barmby, P., Ashby, M. L., Laine, S., Davidge, T. J., Zhang, J., Bianchi, L., Babul, A., Chapman, S. C. “The extended disc and halo of the Andromeda galaxy observed with Spitzer-IRAC” 2016, MNRAS, 459, 1403–1414, DOI: 10.1093/mnras/stw652. *Role: (2, 3, 4)*

12. **Rahmani, S., Lianou, S.,** Barmby, P. “Star formation laws in the Andromeda galaxy: gas, stars, metals and the surface density of star formation” 2016, MNRAS, 456, 4128–4144, DOI: 10.1093/mnras/stv2951. *Role: (2, 3, 4)*
13. **Vulic, N.,** Gallagher, S. C., Barmby, P. “X-rays beware: the deepest Chandra catalogue of point sources in M31” 2016, MNRAS, 461, 3443–3456, DOI: 10.1093/mnras/stw1523. *Role: (2, 3)*
14. Boyer, M. L., McQuinn, K. B., Barmby, P., Bonanos, A. Z., Gehrz, R. D., Gordon, K. D., Groenewegen, M. A., Lagadec, E., Lennon, D., Marengo, M., McDonald, I., Meixner, M., Skillman, E., Sloan, G. C., Sonneborn, G., van Loon, J. T., Zijlstra, A. “An Infrared Census of Dust in Nearby Galaxies with Spitzer (DUSTiNGS). II. Discovery of Metal-poor Dusty AGB Stars” 2015, ApJ, 800, 51, DOI: 10.1088/0004-637X/800/1/51. *Role: (5, 6)*
15. Boyer, M. L., McQuinn, K. B., Barmby, P., Bonanos, A. Z., Gehrz, R. D., Gordon, K. D., Groenewegen, M. A., Lagadec, E., Lennon, D., Marengo, M., Meixner, M., Skillman, E., Sloan, G. C., Sonneborn, G., van Loon, J. T., Zijlstra, A. “An Infrared Census of Dust in nearby Galaxies with Spitzer (DUSTiNGS). I. Overview” 2015, ApJS, 216, 10, DOI: 10.1088/0067-0049/216/1/10. *Role: (5, 6)*
16. **Hemachandra, D.,** Barmby, P., Peeters, E., Willner, S. P., Ashby, M. L., Smith, H. A., Gordon, K. D., Smith, D. A., Fazio, G. G. “Mid-infrared spectroscopy of the Andromeda galaxy” 2015, MNRAS, 454, 818–830, DOI: 10.1093/mnras/stv2001. *Role: (2, 3, 4)*
17. Nandra, K. et al. “AEGIS-X: Deep Chandra Imaging of the Central Groth Strip” 2015, ApJS, 220, 10, DOI: 10.1088/0067-0049/220/1/10. *Role: (5, 6)*
18. **Lianou, S.,** Barmby, P., Rémy-Ruyer, A., Madden, S., Galliano, F., Lebouteiller, V. “Probing the interstellar medium of NGC1569 with *Herschel*” 2014, MNRAS, 445, 1003, DOI: 10.1093/mnras/stu1770. *Role: (2, 3)*
19. **Vulic, N.,** Gallagher, S. C., Barmby, P. “Faint X-Ray Binaries and Their Optical Counterparts in M31” 2014, ApJ, 790, 136, DOI: 10.1088/0004-637X/790/2/136. *Role: (2, 3)*
20. **Agar, J.R.R.,** Barmby, P. “M31 Globular Cluster Structures and the Presence of X-Ray Binaries” 2013, AJ, 146, 135, DOI: 10.1088/0004-6256/146/5/135. *Role: (2, 3, 4)*
21. Ashby, M. L. et al. “SEDS: The Spitzer Extended Deep Survey. Survey Design, Photometry, and Deep IRAC Source Counts” 2013, ApJ, 769, 80, DOI: 10.1088/0004-637X/769/1/80. *Role: (4, 5, 6)*
22. Huang, J.-S., Faber, S. M., Willmer, C. N., Rigopoulou, D., Koo, D., Newman, J., Shu, C., Ashby, M. L., Barmby, P., Coil, A., Luo, Z., Magdis, G., Wang, T., Weiner, B., Willner, S. P., Zheng, X. Z., Fazio, G. G. “Multi-Wavelength Study of a Complete IRAC 3.6  $\mu$ m Selected Galaxy Sample: A Fair Census of Red and Blue Populations at Redshifts 0.4-1.2” 2013, ApJ, 766, 21, DOI: 10.1088/0004-637X/766/1/21. *Role: (6)*
23. **Vulic, N.,** Barmby, P., Gallagher, S. C. “Stacking Star Clusters in M51: Searching for Faint X-Ray Binaries” 2013, ApJ, 763, 96, DOI: 10.1088/0004-637X/763/2/96. *Role: (2, 3)*
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115. Forbes, D. A., Masters, K. L., Minniti, D., Barmby, P. “The elliptical galaxy formerly known as the Local Group: merging the globular cluster systems” 2000, *A&A*, 358, 471–480. *Role: (4, 5, 6)*
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## Conference presentations

1. Barmby, P. “The physics of nearby galaxies” in: CAM Graduate Student Physics Conference, Washington, 2017. [invited talk]
2. Barmby, P., **Arnason, R., Rafiei Ravandi, M., Rahmani, S., Vulic, N.** “Andromeda IR-X” in: Large Surveys of the Andromeda Galaxy, Leiden, 2017. [contributed talk]
3. Barmby, P., **Kiar, A.** “Deconstructing M83” in: Canadian Astronomical Society meeting, Edmonton, 2017. [poster]
4. **Kiar, A.**, Barmby, P. “Deconstructing a galaxy: colour distributions of point sources in Messier 83 ” in: 68th International Astronautical Congress, Adelaide, 2017. [poster]
5. **Arnason, R.**, Barmby, P., Maccarone, T., Zepf, S. “Identifying X-ray Binaries in the Sculptor Dwarf Spheroidal Galaxy” in: Canadian Astronomical Society meeting, Winnipeg, 2016. [poster]

6. Barmby, P., **Rafiei Ravandi, M.** “Stellar populations in the outskirts of M31: the mid-infrared view” in: IAU Symposium 321: Formation and Evolution of Galaxy Outskirts, Toledo, 2016. [contributed talk]
7. Barmby, P., **Rahmani, S., Rafiei Ravandi, M.,** Nandez, J., **Vulic, N., Arnason, R.** “Pieces of Andromeda: machine-learning and big data techniques applied to M31” in: Canadian Astronomical Society meeting, Winnipeg, 2016. [contributed talk]
8. **Kiar, A.,** Barmby, P. “Clustering a Nearby Galaxy” in: ASTRO 2016: 17th Canadian Astronautics & Space Institute conference, Ottawa, 2016. [poster]
9. **Rahmani, S.,** Teimoorinia, H., Barmby, P. “Mining in nearby galaxies” in: Canadian Astronomical Society meeting, Winnipeg, 2016. [contributed talk]
10. **Rahmani, S.,** Teimoorinia, H., Peeters, E., Barmby, P. “Data mining in nearby galaxies” in: Statistical Challenges in Modern Astronomy VI, Pittsburgh, 2016. [poster]
11. Barmby, P., **Hemachandra, D.,** Peeters, E., Willner, S. P., Ashby, M., Smith, H. A., Gordon, K. D., Smith, D. A., Fazio, G. G. “The M31 nucleus in the mid-infrared” in: American Astronomical Society Meeting Abstracts, 2015; Vol. 225, 429.05. [contributed talk]
12. Boyer, M. L., McQuinn, K. B., Barmby, P., Bonanos, A. Z., Gehrz, R. D., Gordon, K. D., Groenewegen, M. A., Lagadec, E., Lennon, D. J., Marengo, M., McDonald, I., Meixner, M., Skillman, E. D., Sloan, G. C., Sonneborn, G., van Loon, J. T., Zijlstra, A. “DUSTiNGS Reveals Dust Production in Very Metal Poor Galaxies” in: American Astronomical Society Meeting Abstracts, 2015; Vol. 225, 342.24.
13. **Rafiei Ravandi, M.,** Barmby, P., Ashby, M., Davidge, T., Laine, S. J., Zhang, J. “Extending the Surface Brightness Profile of the Andromeda Galaxy Using Spitzer-IRAC Observations” in: American Astronomical Society Meeting Abstracts, 2015; Vol. 225, 446.03. [poster]
14. **Vulic, N.,** Barmby, P., Gallagher, S. “Over ‘1001011000’ Chandra X-ray Point Sources in M31: Into the Faint Abyss” in: Canadian Astronomical Society meeting, Hamilton, 2015. [contributed talk]
15. Barmby, P., **Lianou, S., Taylor, J.C.** “Imagecube: an astronomical Python package for organizing and processing multi-wavelength astronomical data” in: Canadian Astronomical Society meeting, Quebec, 2014. [poster]
16. 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., Zijlstra, A. “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, 2014; Vol. 223, 355.07.
17. **Lianou, S.,** Barmby, P., Remy-Ruyer, A., Madden, S., Galliano, F., Lebouteiller, V. “Star formation and interstellar medium in NGC1569” in: European Week of Astronomy and Space Science meeting, Geneva, 2014. [contributed talk]
18. **Lianou, S.,** Xilouris, E., Madden, S., Barmby, P. “Dust and gas in early-type galaxies” in: Canadian Astronomical Society meeting, Quebec, 2014. [contributed talk]
19. **Rahmani, S.,** Barmby, P. “Which Star Formation Law in M31?” In: Galactic and Extragalactic Star Formation, Marseille, 2014. [poster]
20. **Vulic, N.,** Gallagher, S., Barmby, P. “Faint X-Ray Binaries and Their Optical Counterparts in M31” in: AAS/High Energy Astrophysics Division, 2014; Vol. 14, 110.05. [contributed talk]
21. Barmby, P. “Comparing H II regions in M31 and NGC 5128” in: “Science with SITELLE” workshop, Wendake, Quebec, 2013. [contributed talk]
22. **Hemachandra, S.,** Barmby, P., Peeters, E. “Mysterious PAHs in M31” in: Canadian Astronomical Society meeting, Vancouver, 2013. [poster]
23. **Lianou, S.,** Barmby, P., Madden, S., Remy, A. “*Herschel* Observations of Super Star Clusters in NGC 1569” in: Canadian Astronomical Society meeting, Vancouver, 2013. [poster]

24. **Lianou, S.**, Barmby, P., Madden, S., Remy, A. “*Herschel* Observations of Super Star Clusters in NGC 1569” in: Origins Star Formation Jamboree, Hamilton, 2013. [contributed talk]
25. **Lianou, S.**, Barmby, P., Madden, S., Remy, A. “Probing the Interstellar Medium of the NGC1569 Super Star Cluster Population with *Herschel*” in: Hellenic Astronomical Society 11th meeting, Athens, Greece, 2013. [contributed talk]
26. **Lianou, S.**, Barmby, P., **Taylor, J.C.** “Imagecube: an astropy affiliated package” in: The 11th Hellenic Astronomical Conference, Athens, Greece, 2013, 27–27. [poster]
27. Marengo, M., Evans, N. R., Matthews, L. D., Bono, G., Barmby, P., Welch, D. L., Romaniello, M., Su, K. Y., Fazio, G. G., Huelsman, D. “Evidence for Pulsation-Driven Mass Loss from  $\delta$  Cephei” in: Stellar Pulsations: Impact of New Instrumentation and New Insights, ed. by Suárez, J. C., Garrido, R., Balona, L. A., Christensen-Dalsgaard, J., 2013; Vol. 31, 99, DOI: 10.1007/978-3-642-29630-7\_20.
28. **Rahmani, S.**, Barmby, P. “Testing the Extended Schmidt-Kennicutt Law in M31” in: Canadian Astronomical Society meeting, Vancouver, 2013. [poster]
29. **Vulic, N.**, Barmby, P., Gallagher, S. “Searching for Faint X-ray Binaries in M31” in: Canadian Astronomical Society meeting, Vancouver, 2013. [contributed talk]
30. **Agar, J.**, Barmby, P. “Comparisons of M31 Globular Clusters With and Without X-ray Sources” in: Canadian Astronomical Society meeting, Calgary, 2012. [poster]
31. **Azimlu, M.**, **Marciniak, R.**, Barmby, P. “New Catalog of HII Regions in M31” in: “The Great Andromeda Galaxy” Workshop, Princeton, 2012. [poster]
32. Barmby, P. “M31 in the Mid-Infrared” in: “The Great Andromeda Galaxy” Workshop, Princeton, 2012. [contributed talk]
33. Boyer, M. L., Barmby, P., Bonanos, A. Z., Gehrz, R. D., Gordon, K. D., Groenewegen, M. A., Lagadec, E., Lennon, D. J., Marengo, M., McQuinn, K., Meixner, M., Skillman, E. D., Sloan, G. C., van Loon, J. T., Zijlstra, A. A. “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, 2012; Vol. 219, 244.16. [poster]
34. **Croley, M.**, Barmby, P., **Azimlu, M.**, Rosolowsky, E. “The M31 Abundance Gradient” in: Gemini Science and Users’ Meeting, San Francisco, 2012. [poster]
35. **Croley, M.**, Barmby, P., **Azimlu, M.**, Rosolowsky, E. “The M31 Abundance Gradient” in: Canadian Astronomical Society meeting, Calgary, 2012. [poster]
36. **Farhani, G.**, Barmby, P., Peng, E. “The Star Formation Rate in NGC 5128” in: Canadian Astronomical Society meeting, Calgary, 2012. [poster]
37. **Vulic, N.**, Barmby, P., Gallagher, S. “A Stacking Analysis of Star Clusters in M51: The Search for X-ray Binaries” in: “X-ray Binaries: 2012 Chandra Science Workshop”, Boston, 2012. [poster]
38. **Vulic, N.**, Barmby, P., Gallagher, S. “A Stacking Analysis of Star Clusters in M51: The Search for X-ray Binaries” in: Canadian Astronomical Society meeting, Calgary, 2012. [contributed talk]
39. 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., Zhu, Y. “The Star Formation Reference Survey – Survey Design and Basic Data” in: American Astronomical Society Meeting Abstracts #218, 2011, 130.03. [contributed talk]
40. **Azimlu, M.**, Barmby, P., **Marciniak, R.** “New Catalog of H II Regions in M31” in: American Astronomical Society Meeting Abstracts #218, 2011, 106.02. [contributed talk]
41. **Azimlu, M.**, **Marciniak, R.**, Barmby, P. “A New Catalog of HII Regions in M31” in: Canadian Astronomical Society meeting, London, 2011. [contributed talk]
42. Barmby, P., Cami, J., Gallagher, S. “Citizen science projects for non-science astronomy students” in: The Western Conference on Science Education, London, 2011. [poster]

43. Barmby, P., **Jalilian, F. F.** “Globular Cluster Colors Versus Population Synthesis Models” in: American Astronomical Society Meeting Abstracts #218, 2011, 133.12. [poster]
44. Barmby, P., **Jalilian, F.F.** “Globular Cluster Colors Versus Populations Synthesis Models” in: Canadian Astronomical Society meeting, London, 2011. [poster]
45. **Hill, A.**, Gallagher, S., Barmby, P., **Fedotov, K.**, Tzanavaris, P. “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, 2011. [poster]
46. Marengo, M., Evans, N. R., Barmby, P., Matthews, L. D., Bono, G., Welch, D. L., Romaniello, M., Huelsman, D., Su, K. Y., Fazio, G. G. “The Delta Cephei Infrared Nebula” in: American Astronomical Society Meeting Abstracts #217, 2011; Vol. 43, 434.19. [poster]
47. Marengo, M., Evans, N. R., Matthews, L. D., Bono, G., Barmby, P., Welch, D. L., Romaniello, M., Su, K. Y., Fazio, G. G., Huelsman, D. “Evidence for Pulsation-Driven Mass Loss from delta Cephei” 2011, ArXiv e-prints.
48. **Shiu, H.**, Barmby, P. “Mass-loss rates of AGB stars in six dwarf spheroidal galaxies” in: Canadian Astronomical Society meeting, London, 2011. [poster]
49. **Vulic, N.**, Barmby, P., Gallagher, S. “Low-Mass X-Ray Binaries in Globular Cluster systems in M51” in: Canadian Astronomical Society meeting, London, 2011. [poster]
50. **Azimlu, M.**, Fich, M., Barmby, P. “Study of Molecular Clouds Associated with HII Regions: Initial Characteristics of Massive Star Forming Regions” in: “From Stars to Galaxies”, Gainesville, FL, 2010. [poster]
51. Barmby, P. “Online Homework Systems for Introductory Astronomy” in: “Cosmos in the Classroom”, Boulder, CO, 2010. [poster]
52. Barmby, P. “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, 2010. [poster]
53. 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., Conselice, C. J., Lozano, M., Newman, J. A., Cooper, M. C. “Extragalactic Background Light Inferred from AEGIS Galaxy SED-type Fractions” in: 25th Texas Symposium on Relativistic Astrophysics, 2010. [contributed talk]
54. Huelsman, D. M., Marengo, M., Evans, N. R., Barmby, P., Bono, G., Welch, D. L., Romaniello, M., Fazio, G. G. “Observations of Cepheids with Spitzer” in: American Astronomical Society Meeting Abstracts #215, 2010; Vol. 42, 417.06. [poster]
55. Mahajan, S., Ashby, M., Willner, S., Raychaudhury, S., Barmby, P., Bonfini, P., Cao, C., Fazio, G., Gonzalez-Alfonso, E., Kaneda, H., Madden, S., Papovich, C., Smith, H., Sturm, E., Wu, H., Yinnan, Z., Zezas, A. “Star Formation Reference Survey” in: “Extragalactic Star Formation”, Windsor, UK, 2010. [poster]
56. Remage Evans, N., Marengo, M., Barmby, P., Matthews, L. D., Bono, G., Welch, D. L., Romaniello, M., Huelsman, D., Su, K. Y., Fazio, G. “Discovery Of An Infrared Bow Shock Associated With Delta Cephei” in: American Astronomical Society Meeting Abstracts #216, 2010; Vol. 41, 426.01.
57. **Shiu, H.**, Barmby, P. “AGB Stars in the Fornax Dwarf Spheroidal Galaxy” in: Canadian Astronomical Society meeting, Halifax, 2010. [poster]
58. Smith, D. A., Gordon, K. D., Nagy, Z., Rieke, G., Misselt, K., Engelbracht, C., Barmby, P. “Mid-Infrared Features of M33 HII and Diffuse Regions: Tracing Dust Composition and Formation” in: American Astronomical Society Meeting Abstracts #215, 2010; Vol. 42, 431.22. [poster]
59. Barmby, P., Ashby, M. L., Hora, J. L., Gordon, K. D., Jarrett, T. H., **Shiu, H.** “Local Group Dwarf Spheroidal Galaxies as Seen by *Spitzer*” in: American Astronomical Society Meeting Abstracts #214, 2009; Vol. 214, 419.03. [poster]

60. Barmby, P., Bellazzini, M., Cohen, J., Hodge, P., Perina, S., Puzia, T., Strader, J. "HST Observations of Young Star Clusters in M31" in: "Unveiling the Mass: Extracting and Interpreting Galaxy Masses", Kingston, 2009. [poster]
61. Barmby, P., Perina, S., Bellazzini, M., Cohen, J., Hodge, P., Puzia, T., Strader, J. "Structure of Young Star Clusters in M31" in: Canadian Astronomical Society meeting, Toronto, 2009. [contributed talk]
62. Marengo, M., Evans, N. R., Barmby, P., Bono, G., Welch, D. "Spitzer Detection of Cepheid Circumstellar Emission" in: The Evolving ISM in the Milky Way and Nearby Galaxies, 2009.
63. Prada Moroni, P. G., Barmby, P., Bono, G., Fazio, G., Ferraro, I., Marengo, M., Buonanno, R. "Mid-IR excess in the globular cluster 47 Tuc ." 2009, MemSAI, 80, 117.
64. Remage Evans, N., Marengo, M., Barmby, P., Bono, G., Welch, D., Romaniello, M. "Spitzer Observations of Galactic Classical Cepheids" in: American Astronomical Society Meeting Abstracts #214, 2009; Vol. 214, 430.02. [poster]
65. Barmby, P. "Nearby Galaxies: Beyond Spitzer and Herschel" in: Far-Infrared Discipline Working Group meeting, Waterloo, 2008. [contributed talk]
66. Barmby, P. "Star Formation in M31" in: Ontario Star Formation Jamboree, London, 2008. [contributed talk]
67. Barmby, P., Marengo, M., Fazio, G. G., van Loon, J. T., Polomski, E., Gehrz, R., Woodward, C. E., Boyer, M. "The elusive intracluster medium in globular clusters" in: Canadian Astronomical Society meeting, Victoria, 2008. [contributed talk]
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