

Pauline Barmby

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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

Professor	Department of Physics & Astronomy, Western University	2019–
Associate member	Rotman Institute of Philosophy, Western University	2019–
Adjunct faculty	Department of Statistical & Actuarial Sciences, Western University	2018–
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	2013–2019
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

Developing Astronomical Software <i>PI</i>	\$8k	Mitacs Globalink	2019
Real and Virtual Galaxies <i>PI</i>	\$8k	Mitacs Globalink	2019
Nearby Galaxies Observed with Real & Virtual Telescopes <i>PI</i>	\$120k	NSERC Discovery Grant	2018–2023
The Geography of Galaxies <i>PI</i>	\$8k	Mitacs Globalink	2018
Molecular Gas in Nearby Galaxies	\$90k	Western University	2017–2019
Astroinformatics <i>PI</i>	\$8k	Mitacs Globalink	2014
Assembling the Big Picture of Nearby Galaxies <i>PI</i>	\$135k	NSERC Discovery Grant	2013–2018
X-ray binaries in nearby galaxies	\$30k	Western University	2015–2017
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

Old and New Stars Revealed by Infrared Imaging <i>PI</i>	\$4k	Western University ADF	2008–2009
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Values are totals over grant lifetime allocated to my research.

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
The Giant Elliptical Galaxy Hiding in our Backyard:		N/A	Chandra X-ray Center	2018–2020
The Resolved X-ray Binary Population of Maffei 1				
<i>Co-I</i>				
Canadian Advanced Network for Astronomy Research	N/A		Compute Canada Research	2018
[community resource at NRC]	<i>PI</i>		Platforms and Portals	
The Cluster Population of UGC 2885	<i>Co-I</i>	N/A	Space Telescope Science	2017–2019
			Inst. (STScI)	
Far Out: Tracing the Mass in M31	<i>PI*</i>	N/A	Spitzer Science Center	2012
The Local Group Dwarf Spheroidals	<i>PI*</i>	N/A	Spitzer Science Center	2008–2011

*PI**=proposal *PI*, funding allocated only to US *Co-Is* per NASA regulation.

Telescope Time Awards

Metallicity and ionized gas in a massive spiral galaxy	<i>PI</i>	10 h	CFHT	2019
Wide-field near-infrared imaging of Maffei 1	<i>PI</i>	8.3 h	CFHT	2019
SIGNALS: Star formation, Ionized Gas, and Nebular Abundances		55 nt	CFHT	2018–22
Legacy Survey	<i>Co-I</i>			
The Giant Elliptical Galaxy Hiding in our Backyard: The Resolved		125 ks	Chandra	2018
1-30 keV X-ray Binary Population in Maffei 1	<i>Co-I</i>			
The Giant Elliptical Galaxy Hiding in our Backyard: The Resolved		200 ks	NuSTAR	2018
X-ray Binary Population of Maffei 1	<i>Co-I</i>			
Dancing in the Dark: GMOS Imaging of a Nearby Dwarf Galaxy Pair		4 h	Gemini	2018
<i>Co-I</i>				
Wide-field near-infrared imaging of Maffei 1	<i>PI</i>	13.8 h	CFHT	2017
VESTIGE: Virgo Environmental Survey Tracing Ionised Gas Emission		50 nt	CFHT	2017
<i>Co-I</i>				
The cluster population of UGC 2885	<i>Co-I</i>	12 orb	Hubble	2017
HASHTAG: HARP and SCUBA-2 High Resolution Terahertz An-		280 h	JCMT	2017
dromeda Galaxy Survey	<i>Co-I</i>			
Investigating Compact Binaries in the Sculptor Dwarf Galaxy	<i>Co-I*</i>	3.6 h	Gemini	2015
Early-type galaxies in H α +continuum with MegaCam	<i>Co-I*</i>	3.5 h	CFHT	2014
Tucana and VV124 in H α +continuum with GMOS	<i>Co-I*</i>	8 h	Gemini	2014
HII regions in NGC 5128	<i>PI</i>	14.8 h	Gemini	2013
SCUBA-2 M101	<i>Co-I</i>	8 h	JCMT	2013
Mass Loss from Classical Cepheids and their Progenitors	<i>Co-I</i>	26 h	Herschel	2011

The M31 Abundance Gradient <i>PI</i>	16 h	Gemini	2011
Mapping the Molecular Cloud Associated with Massive Star Forming Complex G24 in the Galactic Plane <i>Co-I*</i>	13 h	JCMT	2011
Far Out: Tracing the Mass in M31 <i>PI</i>	41 h	Spitzer	2011
A Complete Census of Dusty Evolved Stars in LG Dwarf Galaxies <i>Co-I</i>	120 h	Spitzer	2011
Understanding the Nature of the Possible IMBH in UMi <i>Co-I</i>	2 h	Gemini	2010
Radial Velocity and Metallicity Determinations for Remote Globular Clusters in M31 and M33 <i>Co-I</i>	4.5 nt	KPNO	2009
Stellar Populations in 3 Milky Way dSphs <i>PI</i>	1.6 h	CFHT	2009
SEDS: Spitzer Extended Deep Survey <i>Co-I</i>	2108 h	Spitzer	2008
Stellar Mass in the Outer Disks of Nearby Galaxies <i>PI</i>	15 h	CFHT	2008
Mass Loss from Classical Cepheids II <i>Co-I</i>	21 h	Spitzer	2007
The Evolution of Faint AGN at High Redshift <i>Co-I</i>	46 h	Spitzer	2007
The Evolution of Faint AGN at High Redshift <i>Co-I</i>	1800 ks	Chandra	2007
X-ray localization of the Globular Cluster G1 in M31 <i>Co-I</i>	35 ks	Chandra	2007
AGN in the Extended Groth Strip <i>Co-I*</i>	3 nt	MMT	2007
Mass Loss From Classical Cepheids <i>Co-I</i>	15 h	Spitzer	2006
Very Young Globular Clusters in M31 <i>Co-I</i>	21 orb	Hubble	2006
Bolometric SFR as a Fn of Large-Scale Environment at $z = 2$ <i>Co-I</i>	23 h	Spitzer	2005
A Complete IRAC Map of M31 <i>PI</i>	36 h	Spitzer	2004
The Most Massive Star Clusters <i>Co-I</i>	24 orb	Hubble	2004
Star Clusters and Stellar Populations in M81 <i>Co-I</i>	12 orb	Hubble	2004
Deep Chandra Imaging of the Extended Groth Strip <i>Co-I</i>	1400 ks	Chandra	2004
High-Redshift Galaxies in the Extended Groth Strip <i>Co-I</i>	19 h	VLA	2002
The M31 Near-infrared Globular Cluster Luminosity Function <i>PI</i>	3 nt	IRTF	2002
Stellar Populations in M101 <i>Co-I</i>	13 orb	Hubble	2001
various programs as graduate student <i>PI</i>	25 nt	FLWO	–2001

*Co-I** indicates that proposal *PI* was a trainee under my supervision.

Fellowships and Awards

Distinguished Research Professor	Western Faculty of Science	2019–20
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

Western University courses

Physics 2/3/4950	Undergraduate Seminar (c)	65 undergrads	2019–20
Astronomy 9720	Observational Astrophysics (c)	12 grads	2019
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

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

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, MSc project reports, 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. Hicks-Jalali, S.	PhD, Astronomy: “A Tropospheric Water Vapour Climatology and Trends Derived from Vibrational Raman Lidar Measurements from Payerne, Switzerland”	July 2019
2. Trivedi, J.	MSc, Applied Mathematics: “Survey of numerical quadrature methods for highly oscillatory integrals”	Apr 2019
3. Abedin, A.	PhD, Astronomy: “Formation and past evolution of the meteoroid complex of Comet 96P/Machholz”	Sept 2016
4. Madaan, D.	MSc, Applied Mathematics: “Modeling the Mass Function of Stellar Clusters Using the Modified Lognormal Power-Law Probability Distribution Function”	Aug 2016
5. 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
6. Silaj, J.	PhD, Astronomy: “The H α Spectroscopy of Classical B-emission Stars”	Dec 2014
7. Desjardins, T.	PhD, Astronomy: “The X-ray View of Galaxies in Compact Groups and the Coma Cluster Infall Region”	Jul 2014
8. Chauke, P.	MSc, Astronomy (U. Cape Town): “A WISE View of the Andromeda Galaxy”	Apr 2014
9. Halonen, R.	PhD, Astronomy: “The Continuum Linear Polarization Signature of Classical Be Stars”	Aug 2013
10. Bailey, N.	PhD, Astronomy: “Core Formation in Partially Ionized Molecular Clouds”	Apr 2013
11. Wing, R.	MSc, Physics: “Multi-sensor Calibration and Validation of the UWO-PCL NDACC Water Vapour Raman Lidar”	Dec 2012
12. 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	2017–2019
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”	2014–2018
4. S. Rahmani	“Star formation in galaxies: a modern statistical approach”	2012–2016
5. N. Vulic	“X-ray populations in the Local Group ” (with S. Gallagher)	2012–2016
6. R. Marciniak	(withdrew)	2009

MSc students

1. D. Li	“Marked Multi-type Markov Point Process with Asymmetric Interaction” (Statistics, with A.I. McLeod)	2018–present
2. J. Xu	“The Globular Clusters of Maffei 1” (with S. Gallagher)	2018–present
3. M. Rafiei Ravandi	“The surface brightness profile of M31 using <i>Spitzer</i> -IRAC”	2013–2015
4. D. Hemachandra	“Characteristics of PAHs in M31” (with E. Peeters)	2012–2014
5. M. Croley	“The M31 abundance gradient”	2011–2013
6. G. Farhani	“HII regions and the star formation rate in NGC 5128 (Cen A)”	2011–2012
7. J. Agar	“M31 globular clusters with and without X-ray sources”	2010–2012
8. N. Vulic	“A stacking analysis of star clusters in M51” (with S. Gallagher)	2010–2012
9. H. Shiu	“Mass-loss rates of AGB stars in Local Group galaxies”	2009–2011
10. R. Marciniak	“HII regions in M31”	2008–2009
11. D. Valenzo	(withdrew)	2007

BSc students

1. C. Dewsnap	BSc thesis (with S. Gallagher)	2019–20
2. W. Chen	BSc thesis (Computer Science)	2019–20
3. J. Fernandez	BSc thesis (Computer Science)	2019–20
4. R. Kwik	BSc thesis (Geography, with J. Wang)	2019–20
5. P. Vynathey	Mitacs Globalink	2019
6. R. Hemant Khincha	Mitacs Globalink	2019
7. G. Murcia, E. Ward, S. Lopez, K. Vander Ploeg	software eng. capstone project	2018–19
8. M. Shubat	BSc thesis (Computer Science)	2018–19
9. J. Xie	Mitacs Globalink	2018
10. J.S. Elkerton	BSc thesis	2016–2017
11. W. Ahmed	work-study	2015–2016
12. A. Kiar	Volunteer, USRA	2014–2016
13. A. Hidalgo Valadez	Mitacs Globalink	2014
14. G. Keenleyside	BSc thesis	2013–2014
15. E. Matlovich	work-study	2013
16. R. Odell	USRA	2012
17. F. Jalilian	USRA	2010
18. M. Gracie	USRA	2010
19. H. Shiu	USRA	2009
20. V. Lyttle	summer student	2008
21. N. Hasan	work-study	2008

Professional Activities

Departmental/University service as faculty member

Member	Western Strategic Support for NSERC Success review board	Research Western	2019–21
Member	Computer Science chair selection committee	Faculty of Science	2019–20
Member	Chair's advisory council	Physics & Astronomy	2019–20
Member	Promotion & Tenure Committee	Physics & Astronomy	2019–20
Member	Workload Committee	Physics & Astronomy	2019–20
Co-organizer	Elizabeth Laird Memorial Lecture	Physics & Astronomy	2019
Member	Integrated Science program committee	Faculty of Science	2014
Member	workload committee	Physics & Astronomy	2014
Member	graduate affairs committee	Physics & Astronomy	2013–14
Member	research & awards committee	Physics & Astronomy	2013–14
Member	colloquium committee	Physics & Astronomy	2012–13
Member	first-year operating committee	Faculty of Engineering	2011–14
Member	Appointments committee	Physics & Astronomy	2011–12
Chair	Outreach committee	Physics & Astronomy	2011–13
Member	NSERC USRA selection committee	Faculty of Science	2008–14
Member	Outreach committee	Physics & Astronomy	2007–13

University service as Science acting dean, 2017–18

Faculty leadership	initiated science policy training for faculty led collaborative construction, increased dissemination of Faculty budget plan developed structure and mandate for new Science Technology Services unit 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 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
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

Professional service & memberships

Member	Organizing Committee, Space as a National Asset for Canada	2019–20
Co-chair	CASCA/ACURA Long Range Plan for Astronomy (LRP2020)	2019–20
Chair	University of Victoria Physics & Astronomy Academic Program Review committee	2018–19
Member	CASCA Computation & Data Committee	2018–21
Member	International Astronomical Union, Division H (Interstellar Matter and Local Universe) steering committee	2018–21
Member	[US] National Center for Optical-Infrared Astronomy Management Oversight Council	2018–19
Member	Program committee, SciPy conference	2018
Member	Association of Universities for Research in Astronomy (AURA) Oversight Council for Gemini Observatory	2017–18
Member	York Region Astronomy Association advisory board	2017
Co-chair	Astronomy mini-symposium, SciPy conference	2017
Member	CANFAR Science Management Committee	2016–present
Member	Dunlap Institute advisory committee	2016–2018
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	Canadian Astronomical Society (CASCA) Board	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	Western University Postdoctoral Fellowship Program	2019
Reviewer	National Research Council Postdoctoral Fellowship Program	2019
Reviewer & panel chair	NASA Astrophysics Data Analysis Program	2018
Reviewer	<i>Spitzer Space Telescope</i> director's discretionary time proposals	2017, 2019
Reviewer	Western Conference on Science Education (WCSE)	2017, 2019
Reviewer	National Research Council Grants to International Affiliations Program Annual Performance Review	2016, 2017
Reviewer	Killam Fellowship Award	2016
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–present
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	Pint of Science, London	2019
Speaker	Starfest, North York Astronomical Association	2018
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	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

CTV News	2019
Gizmodo, WIRED UK	2018
<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. DIRAC Institute, University of Washington	December 2018
2. Canada-France-Hawaii Telescope	July 2018
3. Gemini Observatory	May 2018
4. Western University (Planetary Science)	March 2018
5. Western University (Applied Mathematics)	January 2018
6. Western University (Science of Information)	March 2016
7. University of Victoria	July 2015
8. NRC-Herzberg Astrophysics	July 2015
9. St. Mary's University	March 2013
10. Western University (Planetary Science)	March 2013
11. Western University	September 2012
12. Swinburne University of Technology	May 2012
13. University of Toledo	March 2012
14. Western Washington University	April 2011
15. University of Rochester	March 2011
16. McMaster University	February 2010
17. Royal Military College of Canada	January 2010
18. University of Alberta	January 2010
19. University of Toronto	October 2009
20. Michigan State University	September 2009
21. Queen's University	March 2009
22. Harvard-Smithsonian Center for Astrophysics	February 2009
23. Trent University	January 2009
24. University of Minnesota	April 2008
25. Herzberg Institute of Astrophysics	February 2008
26. University of Waterloo	January 2008
27. Harvard-Smithsonian Center for Astrophysics	November 2006
28. Wesleyan University	December 2004
29. University of Rochester	December 2004
30. Harvard-Smithsonian Center for Astrophysics	March 2003
31. Harvard-Smithsonian Center for Astrophysics	September 2001
32. McMaster University	March 2001
33. European Southern Observatory	December 2000
34. Carnegie Observatories	November 2000
35. University of California at Berkeley	November 2000
36. American Museum of Natural History	October 2000
37. Dominion Astrophysical Observatory	August 2000
38. SAO Summer Intern Program	July 1999

Bibliometrics

	NASA ADS (all)	Google Scholar (all)	Google Scholar (since 2014)
Citations	12559	13956	5365
h-index	48	48	30
i10-index	98	87	52

Publications

In astrophysics, publication authors are listed in descending order of contribution; alphabetical listing implies equal contributions. There is generally no significance to being the last-named author. **Author names in bold are Western University trainees.** DOIs are linked to papers.

Submitted refereed publications

1. **Arnason, R. M.**, Barmby, P., Vulic, N. “Identifying New X-ray Binary Candidates in M31 using Random Forest Classification” 2019, MNRAS, submitted.

Refereed publications

2. **Arnason, R. M.**, Barmby, P., Bahramian, A., Maccarone, T. J., Zepf, S. E. “Multiwavelength survey of X-ray sources in the Sculptor Dwarf Spheroidal Galaxy” 2019, MNRAS, 485, 2259–2275, DOI: [10.1093/mnras/stz554](https://doi.org/10.1093/mnras/stz554).
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Conference presentations

1. Barmby, P. "Astronomical observations: a guide for physicists" in: Canadian Assn. Physicists Congress, Vancouver, 2019. [contributed talk]
2. **Gorski, M.**, Barmby, P. "Gaia distances to Galactic H₂O masers" in: Canadian Astronomical Society meeting, Montréal, 2019. [poster]
3. Barmby, P. "Big data in (little) galaxies: what can astroinformatics do for you?" In: Canadian Astronomical Society meeting, Victoria, 2018. [invited talk]
4. Barmby, P. "The physics of nearby galaxies" in: CAM Graduate Student Physics Conference, Washington, 2017. [invited talk]

5. 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]
6. Barmby, P., **Kiar, A.** “Deconstructing M83” in: Canadian Astronomical Society meeting, Edmonton, 2017. [poster]
7. **Kiar, A.,** Barmby, P. “Deconstructing a galaxy: colour distributions of point sources in Messier 83 ” in: 68th International Astronautical Congress, Adelaide, 2017. [poster]
8. **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]
9. 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]
10. 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]
11. **Kiar, A.,** Barmby, P. “Clustering a Nearby Galaxy” in: ASTRO 2016: 17th Canadian Astronautics & Space Institute conference, Ottawa, 2016. [poster]
12. **Rahmani, S.,** Teimoorinia, H., Barmby, P. “Mining in nearby galaxies” in: Canadian Astronomical Society meeting, Winnipeg, 2016. [contributed talk]
13. **Rahmani, S.,** Teimoorinia, H., Peeters, E., Barmby, P. “Data mining in nearby galaxies” in: Statistical Challenges in Modern Astronomy VI, Pittsburgh, 2016. [poster]
14. 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]
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. 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.
16. **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]
17. **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]
18. 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]
19. 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.
20. **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]
21. **Lianou, S.,** Xilouris, E., Madden, S., Barmby, P. “Dust and gas in early-type galaxies” in: Canadian Astronomical Society meeting, Quebec, 2014. [contributed talk]
22. **Rahmani, S.,** Barmby, P. “Which Star Formation Law in M31?” In: Galactic and Extragalactic Star Formation, Marseille, 2014. [poster]

23. **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]
24. Barmby, P. “Comparing H II regions in M31 and NGC 5128” in: “Science with SITELLE” workshop, Wendake, Quebec, 2013. [contributed talk]
25. **Hemachandra, S.**, Barmby, P., Peeters, E. “Mysterious PAHs in M31” in: Canadian Astronomical Society meeting, Vancouver, 2013. [poster]
26. **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]
27. **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]
28. **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]
29. **Lianou, S.**, Barmby, P., **Taylor, J.C.** “Imagecube: an astropy affiliated package” in: The 11th Hellenic Astronomical Conference, Athens, Greece, 2013, 27–27. [poster]
30. Marengo, M., Evans, N. R., Matthews, L. D., Bono, G., Barmby, P., Welch, D. L., Romaniello, M., Su, K. Y. L., Fazio, G. G., Huelsman, D. “Evidence for Pulsation-Driven Mass Loss from δ 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.
31. **Rahmani, S.**, Barmby, P. “Testing the Extended Schmidt-Kennicutt Law in M31” in: Canadian Astronomical Society meeting, Vancouver, 2013. [poster]
32. **Vulic, N.**, Barmby, P., Gallagher, S. “Searching for Faint X-ray Binaries in M31” in: Canadian Astronomical Society meeting, Vancouver, 2013. [contributed talk]
33. **Agar, J.**, Barmby, P. “Comparisons of M31 Globular Clusters With and Without X-ray Sources” in: Canadian Astronomical Society meeting, Calgary, 2012. [poster]
34. **Azimlu, M.**, **Marciniak, R.**, Barmby, P. “New Catalog of HII Regions in M31” in: “The Great Andromeda Galaxy” Workshop, Princeton, 2012. [poster]
35. Barmby, P. “M31 in the Mid-Infrared” in: “The Great Andromeda Galaxy” Workshop, Princeton, 2012. [contributed talk]
36. 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., 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]
37. **Croley, M.**, Barmby, P., **Azimlu, M.**, Rosolowsky, E. “The M31 Abundance Gradient” in: Gemini Science and Users’ Meeting, San Francisco, 2012. [poster]
38. **Croley, M.**, Barmby, P., **Azimlu, M.**, Rosolowsky, E. “The M31 Abundance Gradient” in: Canadian Astronomical Society meeting, Calgary, 2012. [poster]
39. **Farhani, G.**, Barmby, P., Peng, E. “The Star Formation Rate in NGC 5128” in: Canadian Astronomical Society meeting, Calgary, 2012. [poster]
40. **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]
41. **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]
42. 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]
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