

Pauline Barmby

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Education

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

Positions Held

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: data processing and knowledge discovery in astrophysical data

Research Grants (2007–2014)

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	\$60k	NSERC Discovery Grant	2007–2008

Professional Activities

Member	CASCA Long Range Plan Implementation Committee	2014–15
Member	scientific organizing committee, “Python in Astronomy”	2014–15
Member	Canada-France-Hawaii Telescope Science Advisory Council	2014–16
Director-at-large	Canadian Astronomical Society (CASCA)	2013–15
Member	Users’ Committee, Gemini Observatory	2013–15
Chair	CASCA Ground-based Astronomy Committee	2013–15
Member	CASCA Ground-based Astronomy Committee	2012–13
Chair	scientific organizing committee, Gemini Science Conference	2012
Member	Canadian Gemini Science Committee	2011–13
Member	local organizing committee, CASCA 2011 general meeting	2010–11
Chair	scientific organizing committee, CASCA 2011 general meeting	2010–11

Publications

Selected publications

1. Lianou, S., Barmby, P., Rémy-Ruyer, A., Madden, S., Galliano, F., and Lebouteiller, V. (2014). “Probing the interstellar medium of NGC1569 with *Herschel*”. *MNRAS* 445, 1003.
2. Vulic, N., Gallagher, S. C., and Barmby, P. (2014). “Faint X-Ray Binaries and Their Optical Counterparts in M31”. *ApJ* 790, 136.
3. Ashby, M. L. et al. (2013). “SEDS: The Spitzer Extended Deep Survey. Survey Design, Photometry, and Deep IRAC Source Counts”. *ApJ* 769, 80, 80.
4. Lianou, S., Barmby, P., Madden, S., and Remy, A. (2013). “Imagecube: an astropy affiliated package”. In: The 11th Hellenic Astronomical Conference. Athens, Greece, 27–27.
5. Barmby, P. and Jalilian, F. F. (2012). “Comparing Mid-infrared Globular Cluster Colors with Population Synthesis Models”. *AJ* 143, 87, 87.
6. Willner, S. P., Ashby, M. L., 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, 72.
7. Azimlu, M., Marciniak, R., and Barmby, P. (2011). “A New Catalog of H II Regions in M31”. *AJ* 142, 139, 139.
8. 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.
9. 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.
10. 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. (2009). “AEGIS-X: the Chandra Deep Survey of the Extended Groth Strip”. *ApJS* 180, 102–116.
11. 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.
12. Barmby, P., Ashby, M. L., Bianchi, L., Engelbracht, C. W., Gehrz, 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.
13. 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.
14. Fazio, G. G. et al. (2004). “The Infrared Array Camera (IRAC) for the Spitzer Space Telescope”. *ApJS* 154, 10–17.
15. Di Stefano, R., Kong, A. K., 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.
16. 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.
17. 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.