

## Education

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

## Publications

### submitted refereed publications

1. Lianou, S., Xilouris, E., Madden, S., and **Barmby, P.**, 2016, “The dustier early-type galaxies deviate from late-type galaxies’ scaling relations”. MNRAS, submitted.
2. Rafiei Ravandi, M., **Barmby, P.**, Ashby, M. L., Laine, S., Davidge, T., 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, submitted.
3. Vulic, N., Gallagher, S. C., and **Barmby, P.**, 2016, “X-rays Beware: The Depest Chandra Catalogue of Point Sources in M31”. MNRAS, submitted.
4. Hart, E., **Barmby, P.**, LeBauer, D., Michonneau, F., Mount, S., Poisot, T., Woo, K., Zimmerman, N., and Hollister, J., 2015, “Ten simple rules for digital data storage”. PLoS Comp. Biol. submitted.

### Refereed publications

5. 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.
6. 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.
7. 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., 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.
8. 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., and Zijlstra, A., 2015, “An Infrared Census of Dust in nearby Galaxies with *Spitzer* (DUSTiNGS). I. Overview”. ApJS 216, 10.
9. Hemachandra, D., **Barmby, P.**, Peeters, E., Willner, S. P., Ashby, M. L., 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.
10. Nandra, K. and authors, 2. additional, 2015, “AEGIS-X: Deep Chandra Imaging of the Central Groth Strip”. ApJS 220, 10.
11. 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.
12. Vulic, N., Gallagher, S. C., and **Barmby, P.**, 2014, “Faint X-Ray Binaries and Their Optical Counterparts in M31”. ApJ 790, 136.

13. Agar, J. R. and **Barmby, P.**, 2013, “M31 Globular Cluster Structures and the Presence of X-Ray Binaries”. *AJ* 146, 135.
14. Ashby, M. L. et al., 2013, “SEDS: The Spitzer Extended Deep Survey. Survey Design, Photometry, and Deep IRAC Source Counts”. *ApJ* 769, 80.
15. 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., 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.
16. Vulic, N., **Barmby, P.**, and Gallagher, S. C., 2013, “Stacking Star Clusters in M51: Searching for Faint X-Ray Binaries”. *ApJ* 763, 96.
17. **Barmby, P.** and Jalilian, F. F., 2012, “Comparing Mid-infrared Globular Cluster Colors with Population Synthesis Models”. *AJ* 143, 87.
18. 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. H $\alpha$  imaging and massive star formation properties”. *MNRAS* 422, 3208–3248.
19. 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.
20. 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.
21. Ashby, M. L., 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.
22. Azimlu, M., Marciniak, R., and **Barmby, P.**, 2011, “A New Catalog of H II Regions in M31”. *AJ* 142, 139.
23. **Barmby, P.**, Marengo, M., Evans, N. R., Bono, G., Huelsman, D., Su, K. Y., Welch, D. L., and Fazio, G. G., 2011, “Galactic Cepheids with Spitzer. II. Search for Extended Infrared Emission”. *AJ* 141, 42.
24. 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.
25. 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., 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.
26. Yan, R. et al., 2011, “AEGIS: Demographics of X-ray and Optically Selected Active Galactic Nuclei”. *ApJ* 728, 38.
27. Aird, J., Nandra, K., Laird, E. S., Georgakakis, A., Ashby, M. L., **Barmby, P.**, Coil, A. L., Huang, J.-S., Koekemoer, A. M., Steidel, C. C., and Willmer, C. N., 2010, “The evolution of the hard X-ray luminosity function of AGN”. *MNRAS* 401, 2531–2551.
28. Kong, A. K., Heinke, C. O., di Stefano, R., Cohn, H. N., Lugger, P. M., **Barmby, P.**, Lewin, W. H., and Primini, F. A., 2010, “Localization of the X-ray source in the globular cluster G1 with Chandra”. *MNRAS* 407, L84–L88.
29. Landt, H., Buchanan, C. L., and **Barmby, P.**, 2010, “On the dust geometry in radio-loud active galactic nuclei”. *MNRAS* 408, 1982–1997.
30. 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.

31. Marengo, M., Evans, N. R., **Barmby, P.**, Matthews, L. D., Bono, G., Welch, D. L., Romaniello, M., Huelsman, D., Su, K. Y., and Fazio, G. G., 2010, “An Infrared Nebula Associated with  $\delta$  Cephei: Evidence of Mass Loss?” *ApJ* 725, 2392–2400.
32. Nantais, J. B., Huchra, J. P., **Barmby, P.**, and Olsen, K. A., 2010, “Nearby Spiral Galaxy Globular Cluster Systems. II. Globular Cluster Metallicities in NGC 300”. *AJ* 139, 1178–1189.
33. Park, S. Q., **Barmby, P.**, Willner, S. P., Ashby, M. L., 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.
34. Perina, S., Cohen, J. G., **Barmby, P.**, Beasley, M. A., Bellazzini, M., Brodie, J. P., Federici, L., Fusi Pecci, F., Galleti, 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.
35. **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.
36. **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.
37. Hicken, M. et al., 2009, “CfA3: 185 Type Ia Supernova Light Curves from the CfA”. *ApJ* 700, 331–357.
38. 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.
39. 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.
40. Perina, S., **Barmby, P.**, Beasley, M. A., Bellazzini, M., Brodie, J. P., Burstein, D., Cohen, J. G., Federici, L., Fusi Pecci, F., Galleti, 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.
41. **Barmby, P.**, Huang, J.-S., Ashby, M. L., Eisenhardt, P. R., 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.
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45. 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.
46. McLaughlin, D. E., **Barmby, P.**, Harris, W. E., Forbes, D. A., and Harris, G. L., 2008, “Structural parameters for globular clusters in NGC 5128 - III. ACS surface brightness profiles and model fits”. *MNRAS* 384, 563–590.

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48. 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., Ivison, R. J., Coil, A. L., and Miyazaki, S., 2008, “AEGIS: Radio and Mid-Infrared Selection of Obscured AGN Candidates”. *ApJ* 678, 744–750.
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50. Davis, M. et al., 2007, “The All-Wavelength Extended Groth Strip International Survey (AEGIS) Data Sets”. *ApJL* 660, L1–L6.
51. 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.
52. Huang, J.-S., Rigopoulou, D., Papovich, C., Ashby, M. L., 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., Willmer, C. A., and Fazio, G. G., 2007, “AEGIS: Infrared Spectroscopy of an Infrared-luminous Lyman Break Galaxy at  $z=3.01$ ”. *ApJL* 660, L69–L72.
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65. Dye, S., Eales, S. A., Ashby, M. L., Huang, J.-S., Webb, T. M., **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.
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