

## Education

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

## Publications

### Refereed publications

1. 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.
2. 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., 2014, “An Infrared Census of DUST in Nearby Galaxies with Spitzer (DUSTiNGS), II. Discovery of Metal-poor Dusty AGB Stars”. *ApJ*, in press.
3. Croley, M., **Barmby, P.**, Stock, D., Azimlu, M., and Rosolowsky, E., 2014, “The Andromeda Abundance Gradient”. *MNRAS*, submitted,
4. Hemachandra, D., **Barmby, P.**, Peeters, E., Smith, D., Gordon, K., Willner, S., Ashby, M., Smith, H., and Fazio, G., 2014, “Mid-infrared spectroscopy of the Andromeda galaxy”. *MNRAS*, submitted,
5. 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.
6. Nandra, K. et al., 2014, “AEGIS-X: Deep Chandra Imaging of the Central Groth Strip”. *ApJS*, submitted,
7. Vulic, N., Gallagher, S. C., and **Barmby, P.**, 2014, “Faint X-Ray Binaries and Their Optical Counterparts in M31”. *ApJ* 790, 136.
8. Agar, J. R. and **Barmby, P.**, 2013, “M31 Globular Cluster Structures and the Presence of X-Ray Binaries”. *AJ* 146, 135.
9. Ashby, M. L. et al., 2013, “SEDS: The Spitzer Extended Deep Survey. Survey Design, Photometry, and Deep IRAC Source Counts”. *ApJ* 769, 80.
10. 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.
11. Vulic, N., **Barmby, P.**, and Gallagher, S. C., 2013, “Stacking Star Clusters in M51: Searching for Faint X-Ray Binaries”. *ApJ* 763, 96.
12. **Barmby, P.** and Jalilian, F. F., 2012, “Comparing Mid-infrared Globular Cluster Colors with Population Synthesis Models”. *AJ* 143, 87.
13. Sánchez-Gallego, J. R., Knapen, J. H., Wilson, C. D., **Barmby, P.**, Azimlu, M., and Courteau, S., 2012, “The JCMT Nearby Galaxies Legacy Survey - VII.  $\text{H}\alpha$  imaging and massive star formation properties”. *MNRAS* 422, 3208-3248.

14. 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.
15. Wilson, C. D. et al., 2012, “The JCMT Nearby Galaxies Legacy Survey - VIII. CO data and the  $L_{CO(3-2)}$ - $L_{FIR}$  correlation in the SINGS sample”. *MNRAS* 424, 3050–3080.
16. 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.
17. Azimlu, M., Marciniak, R., and **Barmby, P.**, 2011, “A New Catalog of H II Regions in M31”. *AJ* 142, 139.
18. **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.
19. 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.
20. 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.
21. Yan, R. et al., 2011, “AEGIS: Demographics of X-ray and Optically Selected Active Galactic Nuclei”. *ApJ* 728, 38.
22. 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.
23. 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.
24. Landt, H., Buchanan, C. L., and **Barmby, P.**, 2010, “On the dust geometry in radio-loud active galactic nuclei”. *MNRAS* 408, 1982–1997.
25. 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.
26. 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.
27. 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.
28. 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.
29. Perina, S., Cohen, J. G., **Barmby, P.**, Beasley, M. A., Bellazzini, M., Brodie, J. P., Federici, L., Fusi Pecci, F., Galletti, S., Hodge, P. W., Huchra, J. P., Kissler-Patig, M., Puzia, T. H., and Strader, J., 2010, “An HST/WFPC2 survey of bright young clusters in M 31. IV. Age and mass estimates”. *A&A* 511, A23.
30. **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.
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34. 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.
35. 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.
36. **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.
37. Eisenhardt, P. R., Brodwin, M., Gonzalez, A. H., Stanford, S. A., Stern, D., **Barmby, P.**, Brown, M. J., Dawson, K., Dey, A., Doi, M., Galametz, A., Jannuzi, B. T., Kochanek, C. S., Meyers, J., Morokuma, T., and Moustakas, L. A., 2008, “Clusters of Galaxies in the First Half of the Universe from the IRAC Shallow Survey”. *ApJ* 684, 905–932.
38. Georgakakis, A., Nandra, K., Yan, R., Willner, S. P., Lotz, J. M., Pierce, C. M., Cooper, M. C., Laird, E. S., Koo, D. C., **Barmby, P.**, Newman, J. A., Primack, J. R., and Coil, A. L., 2008, “The role of AGN in the colour transformation of galaxies at redshifts  $z \sim 1$ ”. *MNRAS* 385, 2049–2060.
39. Gorjian, V., Brodwin, M., Kochanek, C. S., Murray, S., Stern, D., Brand, K., Eisenhardt, P. R., Ashby, M. L., **Barmby, P.**, Brown, M. J., Dey, A., Forman, W., Jannuzi, B. T., Jones, C., Kenter, A. T., Pahre, M. A., Shields, J. C., Werner, M. W., and Willner, S. P., 2008, “The Mid-Infrared Properties of X-Ray Sources”. *ApJ* 679, 1040–1046.
40. 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.
41. 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.
42. Mould, J., **Barmby, P.**, Gordon, K., Willner, S. P., Ashby, M. L., Gehrz, R. D., Humphreys, R., and Woodward, C. E., 2008, “A Point-Source Survey of M31 with the Spitzer Space Telescope”. *ApJ* 687, 230–241.
43. 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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45. Davis, M. et al., 2007, “The All-Wavelength Extended Groth Strip International Survey (AEGIS) Data Sets”. *ApJL* 660, L1–L6.
46. 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.
47. 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.
48. Huang, J.-S. et al., 2007, “The Local Galaxy 8  $\mu\text{m}$  Luminosity Function”. *ApJ* 664, 840–849.
  49. Le Floc’h, E. et al., 2007, “Far-Infrared Characterization of an Ultraluminous Starburst Associated with a Massively Accreting Black Hole at  $z=1.15$ ”. *ApJL* 660, L65–L68.
  50. Noeske, K. G. et al., 2007, “Star Formation in AEGIS Field Galaxies since  $z=1.1$ : The Dominance of Gradually Declining Star Formation, and the Main Sequence of Star-forming Galaxies”. *ApJL* 660, L43–L46.
  51. Pierce, C. M., Lotz, J. M., Laird, E. S., Lin, L., Nandra, K., Primack, J. R., Faber, S. M., **Barmby, P.**, Park, S. Q., Willner, S. P., Gwyn, S., Koo, D. C., Coil, A. L., Cooper, M. C., Georgakakis, A., Koekemoer, A. M., Noeske, K. G., Weiner, B. J., and Willmer, C. N., 2007, “AEGIS: Host Galaxy Morphologies of X-Ray-selected and Infrared-selected Active Galactic Nuclei at  $0.2 < z < 1.2$ ”. *ApJL* 660, L19–L22.
  52. Symeonidis, M., Rigopoulou, D., Huang, J.-S., Davis, M., Ashby, M. L., **Barmby, P.**, Egami, E., Fazio, G. G., Le Floc’h, E., Rieke, G., Willner, S. P., and Wilson, G., 2007, “AEGIS: Infrared Spectral Energy Distributions of MIPS 70  $\mu\text{m}$ -selected Sources”. *ApJL* 660, L73–L76.
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  55. Ashby, M. L., Dye, S., Huang, J.-S., Eales, S., Willner, S. P., Webb, T. M., **Barmby, P.**, Rigopoulou, D., Egami, E., McCracken, H., Lilly, S., Miyazaki, S., Brodwin, M., Blaylock, M., Cadien, J., and Fazio, G. G., 2006, “Mid-Infrared Identifications of SCUBA Galaxies in the CUDSS 14 Hour Field with the Spitzer Space Telescope”. *ApJ* 644, 778–791.
  56. **Barmby, P.**, Alonso-Herrero, A., Donley, J. L., Egami, E., Fazio, G. G., Georgakakis, A., Huang, J.-S., Laird, E. S., Miyazaki, S., Nandra, K., Park, S. Q., Pérez-González, P. G., Rieke, G. H., Rigby, J. R., and Willner, S. P., 2006, “Mid-Infrared Properties of X-Ray Sources in the Extended Groth Strip”. *ApJ* 642, 126–139.
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  58. **Barmby, P.**, Kuntz, K. D., Huchra, J. P., and Brodie, J. P., 2006, “Hubble Space Telescope Observations of Star Clusters in M101”. *AJ* 132, 883–890.
  59. Buckalew, B. A. et al., 2006, “Understanding Radio-selected Thermal Sources in M33: Ultraviolet, Optical, Near-Infrared, Spitzer Mid-Infrared, and Radio Observations”. *ApJS* 162, 329–345.
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  61. Georgakakis, A., Nandra, K., Laird, E. S., Gwyn, S., Steidel, C. C., Sarajedini, V. L., **Barmby, P.**, Faber, S. M., Coil, A. L., Cooper, M. C., Davis, M., and Newman, J. A., 2006, “A deep Chandra survey of the Groth Strip - II. Optical identification of the X-ray sources”. *MNRAS* 371, 221–234.
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63. Harris, W. E., Harris, G. L., **Barmby, P.**, McLaughlin, D. E., and Forbes, D. A., 2006, “Structural Parameters for Globular Clusters in NGC 5128. II. Hubble Space Telescope ACS Imaging and New Clusters”. *AJ* 132, 2187–2197.
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66. Nantais, J. B., Huchra, J. P., **Barmby, P.**, Olsen, K. A., and Jarrett, T. H., 2006, “Nearby Spiral Globular Cluster Systems. I. Luminosity Functions”. *AJ* 131, 1416–1425.
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