

# 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 Dean, Graduate & Postdoctoral Studies | Faculty of Science, Western University                | 2015–present |
| 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 (2008–2015)

|  |        |                                |           |
|--|--------|--------------------------------|-----------|
| 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 |

## Professional Activities

|                   |  |         |
|-------------------|--|---------|
| Director-at-large | Canadian Astronomical Society (CASCA)                        | 2013–15 |
| 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 |

# 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.
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.
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.
7. Azimlu, M., Marciniak, R., and Barmby, P., 2011, “A New Catalog of H II Regions in M31”. AJ 142, 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.