

Curriculum Vitae

Jayanne English

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Highlights

Research Interests:

Origin of structure within galaxies, including the formation of halos and other features around galaxies; Intergalactic clouds.

Recent Positions:

University of Manitoba,	- Associate Professor since April 2005	2000–
Dept. of Physics and Astronomy	- Assistant Professor Sept. 2000- Apr. 2005	

Post-doctoral Positions:

- Space Telescope Science Institute	- coordinate the Hubble Heritage Project	1998-2000
	- independent research in astronomy	
- Queen's University	- research with the Canadian Galactic Plane Survey	1996-1998
	- collaborative research in astronomy	1994-1996

Education:

- Australian National University	Ph. D. (Astronomy and Astrophysics)	1989-1994
- University of Toronto	B. Sc. (Physics & Astronomy Double Specialist)	1984-1989
- The Ontario College of Art	A.O.C.A. (General Studies)	1980-1984

Recent Teaching

- U of Manitoba		2000–
	- "Phenomenology of Galaxies" (4th Yr/Graduate)	
	- "Astronomy Research Project" (3rd and 4th Yr)	
	- "Observational Astronomy" (2nd Yr)	
	- "General Astronomy I" & "Perspectives on the Universe" (1st Yr)	

Outreach:

- Press Release	NRAO, Spitzer and JPL	2013
- U. of Manitoba	Transit of Venus event (co-organizer)	2012
- Internet	CosmoQuest	2012
- Other radio	Winnipeg; Johannesburg	2009-2010
- YouTube Videos	Image-making tutorials	2009
- Image Award	NRAO; 1st place	2006
- CBC Radio 1	Quirks & Quarks columnist	2000-2002
- Space Telescope Science Institute	The Hubble Heritage Project	1998-2000

Numerous astronomy images have been published in Scientific American, National Geographic, SkyNews and on various sites on the internet, some on behalf of NASA.

Recent Academic Committees:

– Colloquia	Co-chair	2012-
– Outreach & Recruitment	Chair	2009-
– New Media		2006-2008
– Graduate Studies	Chair: 2006	2006-08

Recent External Committees:

– Review Panel Member	Atacama Large Millimetre/Submillimetre Array	2011, 2014
– Review Panel Member	National Radio Astronomy Observatory	2010-2011
– Review Panel Member	GALEX/NASA	2007
– Committee Member	International Year of Astronomy Canadian Committee	2006-2008
– Chair	CASCA Education & Public Outreach Committee	2006-2007
– Canadian Time Assignment Committee	NRC Herzberg Institute of Astrophysics, CFHT and Gemini telescopes	2004-2008
– Programming & Publicity	CAP/CASCA/COMP/BSC Congress 2004	2001-2004
– Board of Directors	Canadian Astronomical Society	1999-2002

Also have reviewed NSERC SRO and Discovery awards and reviewed a few papers in professional journals.

Invited Lectures:

I was an invited speaker at the 2011 Gordon Research Conference on Visualization in Science and Education. I've given many invited colloquia and/or workshops called "Cosmos versus Canvas: Tensions between Art and Science in Astronomy Images" for professionals at places such as Oxford University (2013), ALMA, ESO, Santiago, Chile (2011); NRAO, VLA, Socorro, New Mexico (2011); CSA, Swinburne University of Technology (2009); RSAA, Australian National University (2009); Australia Telescope National Facility (2008); Laval University (2007); Dominion Radio Astrophysical Observatory (2006); Penn State University (2006), and others in the past. Similar talks have been given frequently for the general public, students or amateur astronomers. Venues include the The David Thompson Observatory (2013); Astronomy and Space Society Symposium, Convocation Hall, U. Toronto (2011); Sci-Bono Discovery Centre, South Africa (2010); various chapters of the Royal Astronomical Society of Canada (2010,2008); Blackrock Castle Observatory, Cork, Armagh Planetarium, Armagh, & Science Gallery, Dublin (2009); and the Swinburne Online Astronomy Texas MSc Alumni Meeting (2007). For artists this has been presented at the Banff New Media Institute's "Quintessence" Symposium (2002); at Subtle Technologies conference (2008) and at Hexagram, Concordia University (2013).

Professional Development:

Conferences Attended: These range from annual meetings of the Canadian Astronomical Society (CASCA) though technical conferences associated with the Australia Square Kilometre Array Pathfinder (ASKAP), research conferences (e.g. Gordon Conference (2011); "Galaxies and their Masks", South Africa (2010), and those relevant to arts/science activities (e.g. Subtle Technologies).

Visitorships:

These include Visitor at Oxford University (2013), Distinguished Visitor at the Australia Telescope National Facility (2003; 2008/2009) and Visiting Scholar at the Australian National University (2009), the College of Fine Arts, University of New South Wales (2009) and Nottingham Trent University (2009).

Funding Examples	Project Description	Years
MITACS	3-D stereoscopic visualization with VRC	2007
NSERC Discovery Grant	Modelling gas in spiral galaxies.	2003-2008
Successful Observing Proposals	Principal-Investigator	Start
MHONGHOOSE: MeerKAT HI survey of galaxies	E. de Blok	2010
EVLA: CHANGES radio continuum galaxy survey	J. Irwin	2010
WALLABY: ASKAP HI survey of galaxies	B.Koribalski & L.Staveley-Smith	2009
SSO 2.3m Telescope: Planetary Nebulae in NGC 2188	K.C. Freeman	2009
JCMT Legacy Survey: Galaxies in the Local Universe	C. Wilson	2007
HST ACS: Hickson Compact Groups	J. Charlton	2006

Training of Highly Qualified Personnel:

This includes a PhD student (graduated 2011), an MSc (graduated 2003), co-supervision of a postdoctoral fellow (2002-2004), a MITACS intern (2007), and supervision/co-supervision of several summer students, including some NSERC award holders.

Research Publications 2002-2013

Boldface indicates that I have supervised or co-supervised a student or postdoctoral fellow.

Articles in Refereed Journals

Previous to 2002 I was first author on 1 paper and co-author on 6 more.

1. **T. Wiegert & J. English** Kinematic classification of non-interacting spiral galaxies *New Astronomy*, 26, 40-61, Jan. **2014**
2. J. Irwin, M. Krause, *J. English*, R. Beck, E. Murphy, T. Wiegert, G. Heald, R. Walterbos, R. J. Rand, & T. Porter **CHANG-ES. III. UGC 10288: An Edge-on Galaxy with a Background Double-lobed Radio Source** *Astronomical Journal*, 146, 164-182, Dec **2013**
3. I. S. Konstantopoulos, A. Maybhate, J. C. Charlton, K. Fedotov, P. R. Durrell, J. S. Mulchaey, J. English, T. D. Desjardins, S. C. Gallagher, L. M. Walker, K. E. Johnson, P. Tzanavaris, & C. Gronwall **Stellar Populations in Compact Galaxy Groups: A Multi-wavelength Study of HCGs 16, 22, and 42, their Star Clusters, and Dwarf Galaxies** *Astrophysical Journal*, 770, 114-196, June **2013**
4. B. Mullan, A. A. Kepley, A. Maybhate, *J. English*, K. Knierman, J. E. Hibbard, N. Bastian, J. C. Charlton, P. R. Durrell, C. Gronwall, D. Elmegreen, and I. S. Konstantopoulos **Under Pressure: Star Clusters and the Neutral Hydrogen Medium of Tidal Tails** *Astrophysical Journal* 768, 194-223, May **2013**
5. J. M. Dickey, N. McClure-Griffiths, S. J. Gibson, J. F. Gomez, H. Imai, P. Jones, S. Stanimirovic, J. T. Van Loon, A. Walsh, A. Alberdi, G. Anglada, L. Uscanga, H. Arce, M. Bailey, A. Begum, B. Wakker, N. B. Bekhti, P. Kalberla, B. Winkel, K. Bekki, B.-Q. For, L. Staveley-Smith, T. Westmeier, M. Burton, M. Cunningham, J. Dawson, S. Ellingsen, P. Diamond, J. A. Green, A. S. Hill, B. Koribalski, D. McConnell, J. Rathborne, M. Voronkov, K. A. Douglas, *J. English*, H. A. Ford, F. J. Lockman, T. Foster, Y. Gomez, A. Green, J. Bland-Hawthorn, S. Gulyaev, M. Hoare, G. Joncas, J.-H. Kang, C. R. Kerton, B.-C. Koo, D. Leahy, N. Lo, V. Migenes, J. Nakashima, Y. Zhang, D. Nidever, J. E. G. Peek, D. Tafuya, W. Tian, and D. Wu **GASKAP-The Galactic ASKAP Survey** *Publications of the Astronomical Society of Australia* 30, 3-23, Jan **2013**
6. J. Irwin, R. Beck, R. A. Benjamin, R.-J. Dettmar, *J. English*, G. Heald, R. N. Henriksen, M. Johnson, M. Krause, J.-T. Li, A. Miskolczi, S. C. Mora, E. J. Murphy, T. Oosterloo, T. A. Porter,

- R. J. Rand, D. J. Saikia, P. Schmidt, A. W. Strong, R. Walterbos, Q. D. Wang, and T. Wiegert Continuum Halos in Nearby Galaxies: An EVLA Survey (CHANG-ES). II. First Results on NGC 4631 *Astronomical Journal* 144, 44-57, August 2012
7. J. Irwin, R. Beck, R. A. Benjamin, R.-J. Dettmar, *J. English*, G. Heald, R. N. Henriksen, M. Johnson, M. Krause, J.-T. Li, A. Miskolczi, S. C. Mora, E. J. Murphy, T. Oosterloo, T. A. Porter, R. J. Rand, D. J. Saikia, P. Schmidt, A. W. Strong, R. Walterbos, Q. D. Wang, and T. Wiegert Continuum Halos in Nearby Galaxies: An EVLA Survey (CHANG-ES). I. Introduction to the Survey *Astronomical Journal* 144, 43-52, August 2012
 8. I. S. Konstantopoulos, S. C. Gallagher, K. Fedotov, P. R. Durrell, P. Tzanavaris, A. Hill, A. E. Zabludoff, M. L. Maier, D. M. Elmegreen, J. C. Charlton, K. E. Johnson, W. N. Brandt, L. M. Walker, M. Eracleous, A. Maybhate, C. Gronwall, *J. English*, A. E. Hornschemeier, & J. S. Mulchaey The merger history, AGN and dwarf galaxies of Hickson Compact Group 59 *Astrophysical Journal*, 745, 30-51, Jan. 2012
 9. B. Mullan, I. S. Konstantopoulos, A. A. Kepley, K. H. Lee, J. C. Charlton, K. Knierman, N. Bastian, R. Chandar, P. R. Durrell, D. Elmegreen, *J. English*, S. C. Gallagher, C. Gronwall, J. E. Hibbard, S. Hunsberger, K. E. Johnson, A. Maybhate, C. Palma, G. Tranco, & W. D. Vacca Star Clusters in the Tidal Tails of Interacting Galaxies: Cluster Populations Across a Variety of Tail Environments *Astrophysical Journal*, 731, 93-138, Apr. 2011
 10. I. S. Konstantopoulos, S. C. Gallagher, K. Fedotov, P. R. Durrell, A. Heiderman, D. M. Elmegreen, J. C. Charlton, J. E. Hibbard, P. Tzanavaris, R. Chandar, K. E. Johnson, A. Maybhate, A. E. Zabludoff, C. Gronwall, D. Szathmary, A. E. Hornschemeier, *J. English*, B. Whitmore, C. Mendes de Oliveira, & J. Mulchaey Galaxy evolution in a complex environment: a multi-wavelength study of HCG 7 *Astrophysical Journal*, 723, 197-217, Nov. 2010
 11. S. C. Gallagher, P. R. Durrell, D. M. Elmegreen, R. Chandar, *J. English*, J. C. Charlton, C. Gronwall, J. Young, J., P. Tzanavaris, K. E. Johnson, C. Mendes de Oliveira, B. Whitmore, A. E. Hornschemeier, A. Maybhate, & A. Zabludoff, Hierarchical Structure Formation and Modes of Star Formation in Hickson Compact Group 31 *Astronomical Journal*, 139, 545-564, Feb. 2010
 12. *J. English*, B. Koribalski, J. Bland-Hawthorn, K. C. Freeman, , & C. F. McCain, The Vela Cloud: A Giant H I Anomaly in the NGC 3256 Group *Astronomical Journal*, 139, 102-119, Jan. 2010
 13. A. Maybhate, J. Masiero, J. E. Hibbard, J. C. Charlton, C. Palma, K. A. Knierman, & *J. English* An HI threshold for star cluster formation in tidal debris. *Monthly Notices of the Royal Astronomical Society*, 381, 59-67, Oct. 2007
 14. A. R. Taylor, J. M. Stil, J. K. Grant, T. L. Landecker, R. Kothes, R. I. Reid, A. D. Gray, D. Scott, P. g. Martin, A. I. Boothroyd, G. Joncas, F. J. Lockman, *J. English*, A. Sijina, & J. R. Bond Radio Polarimetry of the ELAIS N1 Field: Polarized Compact Sources *Astrophysical Journal*, 666, 201-211, Sept. 2007
 15. J. L. West, *J. English*, M. Normandeau, & T. L. Landecker The Fragmenting Superbubble Associated with the H II Region W4. *Astrophysical Journal*, 656, 914-927, Feb. 2007
 16. T. A. Rector, Z. G. Levay, L. M. Frattare, *J. English*, & K. Pu'uohau-Pummill Image-Processing Techniques for the Creation of Presentation-Quality Astronomical Images , *Astrophysical Journal*, 133, 598-611, Feb. 2007
 17. A. Asgekar, *J. English*, S. Safi-Harb, & R. Kothes, A Search for Narrow Vertical Structures in the Canadian Galactic Plane Survey. *Astronomical Journal*, 130: 674-697, August 2005
 18. *J. English* and K. C. Freeman Giant H II regions in the Merging System NGC 3256: Are they the birthplaces of globular clusters? *Astronomical Journal*, 125: 1133-1149, Mar. 2003
 19. *J. English*, R. P. Norris, K. C. Freeman, and R. S. Booth NGC 3256: Kinematic Anatomy of a Merger *Astronomical Journal*, 125: 1124-1134, Mar. 2003

20. C. Palma, S. G. Zonak, S. D. Hunsberger, J. C. Charlton, S. C. Gallagher, P. R. Durrell, and J. English. "The Beginning of the End: Hubble Space Telescope Images of Seyfert's Sextet", *Astronomical Journal*, 124: 2425-2439, Nov. 2002
21. J. S. Gallagher, L. S. Sparke, L. D. Matthews, L. M. Frattare, J. English, A. L. Kinney, E. Iodice, M. Arnaboldi. WFPC2 Observations of the 'Polar Ring' Galaxy NGC 4650A. *Astrophysical Journal*, 568: 199-209, March 2002

Other Refereed Publications

22. J. English and A. R. Taylor. Recycling the ISM: Radio Continuum and FIR Emission in Cygnus *The Dynamics, Structure & History of Galaxies: A Workshop in Honour of Professor Ken Freeman, ASP Conference Series, G. S. Da Costa & E. M. Sadler, Eds., 273: 313-316, 2002*

Non-refereed Publications

Numerous American Astronomical Society and CASCA abstracts are not included. Examples of Conference papers:

23. B. Mullan, J. C. Charlton, I. S. Konstantopoulos, N. Bastian, R. Chandar, P. R. Durrell, D. Elmegreen, J. English, S. C. Gallagher, C. Gronwall, J. E. Hibbard, S. Hunsberger, K. E. Johnson, A. Kepley, K. Knierman, B. Koribalski, K. H. Lee, A. Maybhate, C. Palma, & W. D. Vacca, Tidal Tails in Interacting Galaxies: Formation of Compact Stellar Structures *Astronomical Society of the Pacific Conference Series*, 423, 129, Jun. 2010
24. J. English, J. Fiege, T. Wiegert, B. Koribalski, W. Kerzendorf, & K.C. Freeman, The DiVA's Mask: Iconifying Galaxies and Revealing HI Anomalies to appear in "Galaxies and their Masks" eds. Block, D.L., Freeman, K.C. & Puerari, I., Springer (New York) 2010
25. C. J. Fluke, J. English, & D. G. Barnes, Visualization-Directed Interactive Model-Fitting to Spectral Data Cubes, *Astrophysics - Instrumentation & Methods for Astrophysics*, Jan. 2010
26. T. A. Rector, Z. G. Levay, L. M. Frattare, J. English & K. Pu'uohau-Pummill, Going Beyond RGB: How to Create Color Composite Images that Convey the Science *American Astronomical Society Meeting*, 41:309, Jan. 2010
27. J. Hesser, J. English, R. Lacasse, S. Young, J. Percy Plans in Canada for the International Year of Astronomy 2009, in EPO and a Changing World, eds. C. Garmany, M. Gibbs, and J.W. Moody, *ASP Conference Series*, 389, 433-436, Jun. 2008.
28. J. English, B. S. Koribalski, & K. C. Freeman, Studies of an Intergalactic HI Cloud. *International Astronomical Union Symposium*, 217, 41-43, June 2004
29. J. L. West. Does the Mushroom Affect the Surrounding Medium? Sharpless 184 and the Cauldron ASP Conf. Ser. 276: Seeing Through the Dust: The Detection of HI and the Exploration of the ISM in Galaxies, 276, 229-232, December 2002