

Curriculum Vitae

Joseph Frederick Helmboldt

Current Position: National Research Council Postdoctoral Fellow, Naval Research Laboratory

Research Interests: Star Formation in Other Galaxies; Galaxy Evolution and Formation; Structure and Evolution of Active Galactic Nuclei

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Date/Place of Birth: March 12, 1977 in Grand Rapids, MI, USA

Education:

B.S. 1999 (Physics) Central Michigan University (CMU)
M.S. 2004 (Astronomy) New Mexico State University (NMSU)
Ph.D. 2005 (Astronomy) NMSU

Professional Experience:

10/06-present Postdoctoral Fellow, Naval Research Laboratory
10/05-10/06 Postdoctoral Fellow, University of New Mexico
8/02-10/05 Research Assistant, NMSU
8/99-8/02 Research/Teaching Assistant, NMSU
8/98-5/99 Physics Tutor, CMU

Computing Experience:

Operating Systems: Unix, Linux, Windows, Mac OS
Programming Languages: C++, Fortran, IDL, Python
Data Precessing Software: IRAF, IDL, AIPS, DIFMAP

Memberships:

VLBA Imaging and Polarimetry Survey Collaboration
Sloan Digital Sky Survey Collaboration
American Astronomical Society
Sigma Pi Sigma

Honors and Awards:

Sigma Pi Sigma (1998), CMU
Brooks Award for Astronomy (1998), CMU
Magna Cum Laude (1999), CMU
Head Teaching Assistant (2000), NMSU
Astronomy Graduate Student Organization President (2001), NMSU
Graduate Student Council Vice President/Treasurer (2001), NMSU
Zia award for outstanding graduate student research (2005), NMSU

Meetings Attended:

NRAO Synthesis Imaging Summer School	Socorro, NM	6/00
AAS Meeting No. 198	Pasadena, CA	5/01
AAS Meeting No. 200	Albuquerque, NM	5/02
SDSS Collaboration Meeting	Princeton, NJ	7/02
SDSS Collaboration Meeting	Flagstaff, AZ	3/03
SDSS Collaboration Meeting	Batavia, IL	10/03
SDSS Collaboration Meeting	Las Cruces, NM	3/04
New Windows On Star Formation	College Park, MD	10/04
AAS Meeting No. 205	San Diego, CA	1/05
AAS Meeting No. 207	Washington, DC	1/06
VLBI in the GLAST Era	Greenbelt, MD	4/07
The Evolution of Galaxies Through the Neutral Hydrogen Window	Arecibo Observatory	2/08

Publications List

Refereed Publications:

1. *Current Star Formation in Early-type Galaxies and the K+A Phenomenon*, Helmboldt, J. F., Walterbos, R. A. M., & Goto, T. 2008, *Monthly Notices of the Royal Astronomical Society*, 387, 1537
2. *A Shrinking Compact Symmetric Object: J11584+2450* Tremblay, S. E., Taylor, G. B., Helmboldt, J. F., Fassnacht, C. D., & Pearson, T. J. 2007, *Astrophysical Journal*, in press
3. *A Statistical Description of AGN Jet Evolution from the VLBA Imaging and Polarimetry Survey (VIPS)* Helmboldt, J. F., Taylor, G. B., Blanford, R. D., & Walker, R. C. 2008, *Astrophysical Journal*, 681, 897
4. *Radio Frequency Spectra of 388 Bright 74 MHz Sources*, Helmboldt, J. F., Kassim, N., Cohen, A., Peters, W. L., & Lazio, T. J. 2008, *Astrophysical Journal Supplement Series*, 174, 313
5. *EGRET Blazars in the VLBA Imaging and Polarimetry Survey (VIPS)* Taylor, G. B., et al. 2007 *Astrophysical Journal*, 671, 1355
6. *The HI Content of Elliptical and Lenticular Galaxies with Recent Star Formation*, Helmboldt, J. F. 2007, *Monthly Notices of the Royal Astronomical Society*, 379, 1227
7. *The VLBA Imaging and Polarimetry Survey at 5 GHz*, Helmboldt, J. F., et al. 2007, *Astrophysical Journal*, 658, 203
8. *SDSS J103913.70+533029.7: A Super Star Cluster in the Outskirts of a Galaxy Merger*, Knapp, G. R., et al. 2006, *Astronomical Journal*, 131, 859
9. *Star Formation in HI Selected Galaxies II. HII Region Properties*, Helmboldt, J. F., Walterbos, R. A. M., Bothun, G. D., & O'Neil, K. 2005, *Astrophysical Journal*, 630, 824
10. *Star Formation in HI Selected Galaxies I. Sample Characteristics*, Helmboldt, J. F., Walterbos, R. A. M., Bothun, G. D., O'Neil, K., & de Blok, W. J. G. 2004, *Astrophysical Journal*, 613, 914
11. *Actively Star-forming Elliptical Galaxies at Low Redshifts in the Sloan Digital Sky Survey*, Fukugita, M., Nakamura, O., Turner, E., Helmboldt, J., & Nichol, R. 2004, *Astrophysical Journal*, 601, L127
12. *The First Data Release of the Sloan Digital Sky Survey*, Abazajian, K. et al. 2003, *Astrophysical Journal*, 126, 2081

Conference Proceedings:

1. *H α and Broad-band Imaging of Nearby Star Forming Early-type Galaxies: Centralized Star Formation and Morphology Evolution*, Helmboldt, J. F., Walterbos, R. A. M., & Goto, T. 2005, *Bulletin of the American Astronomical Society*, 37, 1406

2. *Star Formation in Early-type Galaxies*, Helmboldt, J. F. & Walterbos, R. A. M., 2004, *Bulletin of the American Astronomical Society*, 36, 1397
3. *Star Formation Properties of HI Selected Galaxies II. HII Regions Characteristics*, Walterbos, R. A. M., Helmboldt, J. F., Bothun, G. D., & O'Neil, K., 2002, *Bulletin of the American Astronomical Society*, 34, 710
4. *Star Formation Properties of HI Selected Galaxies I. Overall properties*, Helmboldt, J. F., Walterbos, R. A. M., Bothun, G. D., O'Neil, K., & de Blok, W. J. G., 2002, *Bulletin of the American Astronomical Society*, 34, 710
5. *Star Formation Properties of HIPASS Galaxies I: Sample Characteristics*, Helmboldt, J. F., Walterbos, R. A. M., Bothun, G. D., de Blok, W. J. G., & O'Neil, K., 2001, *Bulletin of the American Astronomical Society*, 33, 906