

GEOFFREY C. BOWER

Institute of Astronomy and Astrophysics
Academia Sinica
Hilo, HI 96720

office: +1 (808) 961-2945
cell: +1 (510) 847-1722
email: gbower@asiaa.sinica.edu.tw

PROFESSIONAL EMPLOYMENT

2016- Adjunct Research Fellow, ASIAA, Taipei, Taiwan
2014- Chief Scientist for Hawaii Operations, ASIAA, Hilo, HI
2006-2013 Asst. Professor, Astronomy Department, UC, Berkeley
2003-2006 Asst. Research Astronomer, Radio Astronomy Laboratory, UC, Berkeley
2000-2003 Postdoctoral Fellow, Radio Astronomy Laboratory, UC, Berkeley
1998-2000 Jansky Fellow, National Radio Astronomy Observatory
1997-1998 Postdoctoral Fellow, Max Planck Institut fur Radioastronomie

EDUCATION

University of California, Berkeley,	Ph.D., Astronomy,	1997
University of California, Berkeley,	M.A., Astronomy,	1993
Princeton University,	A.B., Physics, Highest Honors,	1991

PROFESSIONAL SOCIETIES

AAS, IAU, URSI, Sigma Xi

HONORS AND AWARDS

2013 Netherlands Research School for Astronomy (NOVA) Visiting Speaker
2008 Hellman Family Foundation Faculty Fund Award
2005 Blanket Exceptional Principal Investigator Status, UC Berkeley
2000 Best lecture, NRAO Interferometry Summer School
1997 Mary Elizabeth Uhl Thesis Prize, UC Berkeley
1996 NASA Fellowship for Graduate Student Research
1994 The Berkeley Fellowship for Graduate Study
1991 National Science Foundation Graduate Fellowship

TEN REPRESENTATIVE RECENT PUBLICATIONS

S. Chatterjee, C. J. Law, R. S. Wharton, S. Burke-Spolaor, J. W. T. Hessels, G. C. Bower, J. M. Cordes, S. P. Tendulkar, C. G. Bassa, P. Demorest, B. J. Butler, A. Seymour, P. Scholz, M. W. Abruzzo, S. Bogdanov, V. M. Kaspi, A. Keimpema, T. J. W. Lazio, B. Marcote, M. A. McLaughlin, Z. Paragi, S. M. Ransom, M. Rupen, L. G. Spitler, and H. J. van Langevelde, “*A direct localization of a fast radio burst and its host*,” *Nature*, vol. 541, pp. 58–61, Jan. 2017

M. D. Johnson, V. L. Fish, S. S. Doeleman, D. P. Marrone, R. L. Plambeck, J. F. C. Wardle, K. Akiyama, K. Asada, C. Beaudoin, L. Blackburn, R. Blundell, G. C. Bower, C. Brinkerink, A. E. Broderick, R. Cappallo, A. A. Chael, G. B. Crew, J. Dexter, M. Dexter, R. Freund, P. Friberg, R. Gold, M. A. Gurwell, P. T. P. Ho, M. Honma, M. Inoue, M. Kosowsky, T. P. Krichbaum, J. Lamb, A. Loeb, R.-S. Lu, D. MacMahon, J. C. McKinney, J. M. Moran, R. Narayan, R. A. Primiani, D. Psaltis, A. E. E. Rogers, K.

Rosenfeld, J. SooHoo, R. P. J. Tilanus, M. Titus, L. Vertatschitsch, J. Weintraub, M. Wright, K. H. Young, J. A. Zensus, and L. M. Ziurys, “*Resolved magnetic-field structure and variability near the event horizon of Sagittarius A**,” *Science*, vol. 350, pp. 1242–1245, Dec. 2015

G. K. Keating, G. C. Bower, D. P. Marrone, D. R. DeBoer, C. Heiles, T.-C. Chang, J. E. Carlstrom, C. H. Greer, D. Hawkins, J. W. Lamb, E. Leitch, A. D. Miller, S. Muchavej, and D. P. Woody, “*First Results from COPSS: The CO Power Spectrum Survey*,” *ApJ*, vol. 814, p. 140, Dec. 2015

G. C. Bower, J. Dexter, S. Markoff, M. A. Gurwell, R. Rao, and I. McHardy, “*A Black Hole Mass-Variability Timescale Correlation at Sub-millimeter Wavelengths*,” *ApJL*, vol. 811, p. L6, Sept. 2015

C. J. Law, G. C. Bower, S. Burke-Spolaor, B. Butler, E. Lawrence, T. J. W. Lazio, C. A. Mattmann, M. Rupen, A. Siemion, and S. VanderWiel, “*A Millisecond Interferometric Search for Fast Radio Bursts with the Very Large Array*,” *ApJ*, vol. 807, p. 16, July 2015

G. C. Bower, A. Deller, P. Demorest, A. Brunthaler, H. Falcke, M. Moscibrodzka, R. M. O’Leary, R. P. Eatough, M. Kramer, K. J. Lee, L. Spitler, G. Desvignes, A. P. Rushton, S. Doeleman, and M. J. Reid, “*The Proper Motion of the Galactic Center Pulsar Relative to Sagittarius A**,” *ApJ*, vol. 798, p. 120, Jan. 2015

G. C. Bower, S. Markoff, A. Brunthaler, C. Law, H. Falcke, D. Maitra, M. Clavel, A. Goldwurm, M. R. Morris, G. Witzel, L. Meyer, and A. M. Ghez, “*The Intrinsic Two-dimensional Size of Sagittarius A**,” *ApJ*, vol. 790, p. 1, July 2014

C. Melis, M. J. Reid, A. J. Mioduszewski, J. R. Stauffer, and G. C. Bower, “*A VLBI resolution of the Pleiades distance controversy*,” *Science*, vol. 345, pp. 1029–1032, 2014

A. P. V. Siemion, G. C. Bower, G. Foster, P. L. McMahon, M. I. Wagner, D. Werthimer, D. Backer, J. Cordes, and J. van Leeuwen, “*The Allen Telescope Array Fly’s Eye Survey for Fast Radio Transients*,” *ApJ*, vol. 744, p. 109, Jan. 2012

G. C. Bower, S. Croft, G. Keating, D. Whysong, R. Ackermann, S. Atkinson, D. Backer, P. Backus, B. Barott, A. Bauermeister, L. Blitz, D. Bock, T. Bradford, C. Cheng, C. Cork, M. Davis, D. DeBoer, M. Dexter, J. Dreher, G. Engargiola, E. Fields, M. Fleming, R. J. Forster, C. Gutierrez-Kraybill, G. R. Harp, C. Heiles, T. Helfer, C. Hull, J. Jordan, S. Jorgensen, T. Kilsdonk, C. Law, J. van Leeuwen, J. Lugten, D. MacMahon, P. McMahon, O. Milgrome, T. Pierson, K. Randall, J. Ross, S. Shostak, A. Siemion, K. Smolek, J. Tarter, D. Thornton, L. Urry, A. Vitouchkine, N. Wadefalk, S. Weinreb, J. Welch, D. Werthimer, P. K. G. Williams, and M. Wright, “*The Allen Telescope Array Pi GHz Sky Survey. I. Survey Description and Static Catalog Results for the Boötes Field*,” *ApJ*, vol. 725, pp. 1792–1804, Dec. 2010

PUBLICATION SUMMARY

>128 refereed publications with >5900 citations and H-index of 45.

SELECTED SYNERGISTIC ACTIVITIES

2016 VLA Sky Survey Preliminary Design Review, chair
2016- Event Horizon Telescope, Science Council, vice-chair
2015- JCMT TAC, member
2014-2016 NRAO SWG Chair for Time Domain, Cosmology, and Physics, Next Generation VLA
2014 Event Horizon Telescope Charter Committee and Science Council
2013- NRAO Student Observing Support Committee, chair
2012- LOFAR Program Committee, chair
2012-2013 MWA Time Allocation Committee
2010-11 SOC Member, Probing the Radio Continuum Universe with SKA Pathfinders
2010 LOC & SOC Member, Blitzed 65, Symposium honoring Leo Blitz
2009- 12 Member, Science and Technology Committee, International Centre for Radio Astronomy Research (Perth, Australia)
2009-2014 Member & Chair, MIT Haystack Observatory Visiting Committee
2008 NSF panel to review AUI proposal to operate the NRAO
2008-2011 US Representative, International SKA Science and Engineering Committee
2006-2011 Representative, US SKA Consortium
2004-2007 Member & Chair, NRAO User's Committee
2006 SOC Member, NRAO Legacy Science Workshop

Referee & Reviewer: Nature, Science, ApJ, AJ, MNRAS, A&A, PASP, PASJ, PASA, Rad Sci, NSF, EUSIPCO, Netherlands Organization for Scientific Research (NWO), Israeli Science Foundation (ISF), Czech Science Foundation (GACR), NASA
-Numerous preliminary and qualifying exam committees, 2006-2013
-Hiring and supervision of undergraduate lab engineer, 2007-2013