

## CURRICULUM VITAE

### GEOFFREY C. BOWER

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### EDUCATION

Princeton University,	A.B.,	1991
University of California, Berkeley,	M.A.,	1993
University of California, Berkeley,	Ph.D.,	1997

### PROFESSIONAL EMPLOYMENT

2006-	Asst. Professor, Astronomy Department, UC, Berkeley
2003-2006	Asst. Research Astronomer, Radio Astronomy Laboratory, UC, Berkeley
2000-2003	Postdoctoral Fellow, Astronomy Laboratory, UC, Berkeley
1998-2000	Jansky Fellow, National Radio Astronomy Observatory
1997-1998	Postdoctoral Fellow, Max Planck Institut fur Radioastronomie

### PROFESSIONAL SOCIETIES

AAS, IAU, URSI, Sigma Xi

### HONORS AND AWARDS

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

### SELECTED SYNERGISTIC ACTIVITIES

2010-11	SOC Member, Probing the Radio Continuum Universe with SKA Pathfinders
2010	LOC & SOC Member, Blitzed 65, Symposium honoring Leo Blitz
2009-	Member, Science and Technology Committee, International Centre for Radio Astronomy Research (Perth, Australia)
2009-	Member & Chair, MIT Haystack Observatory Visiting Committee
2008	NSF panel to review AUI proposal to operate the NRAO
2008-	US Representative, International SKA Science and Engineering Committee
2006-	Representative, US SKA Consortium
2004-2007	Member & Chair, NRAO User's Committee
2006	SOC Member, NRAO Legacy Science Workshop

Referee & Reviewer: Nature, Science, AstrophJ, MNRAS, A&A, Rad Sci, NSF, EUSIPCO, Netherlands Organization for Scientific Research (NWO), Israeli Science Foundation (ISF), Czech Science Foundation (GACR), NASA

## **DEPARTMENT AND UNIVERSITY SERVICE, OUTREACH**

- Associate Director for the Allen Telescope Array, Radio Astronomy Laboratory, 2010-
- Chair, Steering Committee, Allen Telescope Array, 2008-2009
- Member, Berkeley Astrophysics Council, 2010-
- Colloquium organizer, UC Berkeley Astronomy Department, 2006-
- Miller postdoc selection committee, 2008, 2009
- Townes postdoc selection committee, 2007, 2008
- Graduate admissions committee, 2008, 2009, 2010
- Graduate admissions committee, 2007/2008 & 2008/2009
- Numerous preliminary and qualifying exam committees, 2006-
- Hiring and supervision of undergraduate lab assistant, 2007-
- Supervised Radio Astronomy Laboratory events for Cal Day, 2008 & 2009
- Supervised undergraduate lab event for Cal Day, 2009, 2010
- Lecture to San Mateo Amateur Astronomers, October 2007

## **SELECTED LECTURES AND COLLOQUIA**

- Invited lecture: Radio Transients, American Physical Society, May 2011, Anaheim, CA
- Invited lecture: Seeking New Planets at Radio Wavelengths, AAAS Annual Meeting, Feb 2011, Washington, DC
- Colloquium: Wide Field Radio Transient Surveys, Caltech, January, 2010, Pasadena, CA
- Colloquium: Wide Field Radio Transient Surveys, ASIAA, December, 2010, Taipei, Taiwan
- Invited Lecture: Radio, millimeter, submillimeter astronomy, Decadal Survey Town Hall, November, 2010, UC Berkeley
- Invited Lecture: Wide Field Radio Transient Surveys, AUI Board Meeting, October, 2010, Berkeley, CA
- Invited lecture: US Opportunities for the mid-frequency SKA, USSKA Consortium Meeting, October, 2010, Albuquerque, NM
- Invited lecture: Wide Field Radio Transient Surveys, LOFAR Science Symposium, June, 2010, Assen, Netherlands
- Lecture: The Allen Telescope Array, AAS, Jan 2010, Washington, DC
- Colloquium: Wide Field Transient Surveys, University of Maryland, Nov 2009
- Invited lecture: Wide Field Transient Surveys, Swinburne University, September 2009, Melbourne, Australia
- Colloquium: Radio Interferometric Planet Search, Sydney University, September 2009, Sydney, Australia
- Invited lecture: Wide Field Transient Surveys, SKAMP Workshop, September 2009, Canberra, Australia
- Invited lecture: VLBI planet finding, NEW SCIENCE ENABLED by MICROARCSECOND ASTROMETRY, July 2009, Socorro, NM
- Invited lecture: The Dynamic Radio Sky: Future Directions at cm/m-Wavelengths astronomy, NRAO Postdoctoral Symposium, April 2009, Socorro, NM

- Invited lecture: Transient Survey Imaging Requirements, SKA Continuum Imaging Workshop, Feb 2009, Cape Town, South Africa
- Invited lecture: Future Radio Synoptic Surveys, Colloquium, Jet Propulsion Labs, January 2009, Pasadena, CA
- Invited lecture: The Allen Telescope Array, Future of the DRAO ST Workshop, January 2009, Penticton, Canada
- Mini-workshop organizer: The Radio Sky Surveys Project, January 2009, Long Beach, CA
- Invited lecture: The Dynamic Radio Sky: Future Directions at cm/m-Wavelengths, AAS Special Session, January 2009, Long Beach, CA
- Invited lecture: Future Radio Synoptic Surveys, Great Surveys Workshop, November 2008, Santa Fe, NM
- Invited lecture: The Allen Telescope Array, US SKA Consortium Meeting, November 2008, Madison, WI
- Poster: THE ALLEN TELESCOPE ARRAY AS SQUARE KILOMETER ARRAY PATHFINDER, URSI General Assembly, August 2008, Chicago, IL
- Invited lecture: The Allen Telescope Array, US SKA Consortium Meeting, May 2008, Arlington, VA
- Invited lecture: Wide-Field Radio Transient Surveys, Deep Surveys of the Radio Universe with SKA Pathfinders, March 2008, Perth, Australia
- Invited lecture: Wide-Field Radio Transient Surveys, Colloquium, February 2008, Socorro, NM
- Poster: The Allen Telescope Array as Square Kilometer Array Pathfinder, American Astronomical Society Meeting, January 2008, Austin, TX
- Invited lecture: RIPL: Radio Interferometric Planet Search, Expoplanet Seminar, Jet Propulsion Labs, December 2007, Pasadena, CA
- Invited lecture: The Allen Telescope Array, LBNL/INPA Seminar, Nov 2007, Berkeley, CA
- Invited lecture: High Frequency SKA Pathfinders & Technology Challenges, Chicago-3 Community Workshop: Implementation of the SKA Program for the U.S. Community, September 2007, Washington, DC
- Invited lecture: The Allen Telescope Array and Radio Frequency Interference, National Research Council Spectrum Study Committee, September 2007, Irvine, CA
- Invited lecture: The Allen Telescope Array, URSI Meeting, July 2007, Ottawa, Canada

## **COLLABORATORS IN LAST 48 MONTHS**

D.C. Backer (UCB), F.K. Baganoff (MIT), J.S. Bloom (UCB), D.C. Bock (CSIRO), A. Bolatto (Maryland), A. Brunthaler (MPIfR), J. Cordes (Cornell), S. Croft (UCB), Darling (Colorado), D. DeBoer (SETI Inst.), S. Doeleman (MIT), A. Eckart (Köln U.), R. Ekers (CSIRO), H. Falcke (ASTRON), A. Filippenko (UCB), E. Ford (UFI), B. Gaensler (Sydney), G. Harp (SETI Inst.), G. Jones (Caltech), C. Law (UCB), M. Goss (NRAO), P. Kalas (UCB), J.-P. Macquart (Curtin), S. Markoff (Amsterdam), K. Menten (MPIfR), J. Moran (CfA), M. Muno (UCLA/CIT), R.L. Plambeck (UCB), E. Quataert

(UCB), M. Reid (CfA), A.E.E. Rogers (MIT), J. Tarter (SETI Inst.), J. Welch (UCB), D. Werthimer (UCB), D. Whysong (UCB), M.C.H. Wright (UCB), F. Yusef-Zadeh (NWU)

### ADVISORS

D.C. Backer (UCB, Ph.D. thesis), M. Goss (NRAO, postdoctoral advisor), L. Blitz (UCB, postdoctoral advisor)

### THESIS STUDENTS and POSTDOCS

Postdocs: Steve Croft, Gregory Desvignes, Casey Law, David Whysong

Thesis Students: Garrett Keating, Andrew Siemion, Peter Williams

### GRANTS

Dates	Details
09/2010 - 09/2013	NSF, Collaborative Research: Booming or Beaming? Sorting out the Dynamic Radio Universe. PI: Geoffrey Bower (UC Berkeley), Total: \$283,003, UCB Amount: \$283,003.
09/2010 - 09/2013	NSF, Upgrading the Image: Using New Technology to Alter Perceptions of Radio Astronomy in Undergraduate Instruction. PI: Geoffrey Bower (UC Berkeley), Total: \$149,687, UCB Amount: \$149,687.
07/2010 - 07/2012	Smithsonian Astrophysical Observatory, X-ray Counterparts to Radio Transients. PI: Geoffrey Bower (UC Berkeley), Total: \$46,147, UCB Amount: \$46,147.
09/2009 - 09/2012	NSF, ATI: Acquisition of a Beowulf Cluster for Computational Astrophysics, Cosmology and Planetary Science at UC Berkeley. Co-PI: Geoffrey Bower (UC Berkeley), Total: \$598,870, UCB Amount: \$598,870.
08/2009 - 08/2012	NSF, Exploring the Radio Transient and Static Sky with the Allen Telescope Array Five GHz Sky Survey. PI: Geoffrey Bower (UC Berkeley), Total: \$463,925, UCB Amount: \$463,925.
08/2009 - 07/2012	MIT, High Sensitivity VLBI Arrays: Towards Imaging an Event Horizon. PI: Geoffrey Bower (UC Berkeley), Total: \$273,732, UCB Amount: \$273,732.
05/2009 -	Paul G. Allen Family Foundation, Deputy Director

Dates	Details
12/2010	Recruitment and Salary Costs and Work to Improve the Technical Performance of the Allen Telescope Array. Co-PI: Geoffrey Bower (UC Berkeley), Total: \$1,095,000, UCB Amount: \$1,095,000.
02/2009 - 02/2012	NSF, Collaborative Research: The Allen Telescope Array: Science Operations. Co-PI: Geoffrey Bower (UC Berkeley), Total: \$600,000, UCB Amount: \$300,000.
10/2007 - 09/2011	Cornell University (subaward from NSF), SKA Technology Development Project. PI: Geoffrey Bower (UC Berkeley), Total: \$885,977, UCB Amount: \$885,977.
07/2007 - 07/2012	NASA, RIPL: Radio Interferometric Planet Search. PI: Geoffrey Bower (UC Berkeley), Total: \$274,000, UCB Amount: \$274,000.
07/2010 - 01/2011	SETI Institute, Base Operations and Data Security Task. PI: Geoffrey Bower (UC Berkeley), Total: \$397,000, UCB Amount: \$397,000.
10/2008 - 09/2009	SETI Institute, The Allen Telescope Array - Equipment and Base Facility Operations. Co-PI: Geoffrey Bower (UC Berkeley), Total: \$757,923, UCB Amount: \$757,923.
09/2008 - 10/2009	UC IGPP, Things That Go Bump in the Night: Synergies in Optical and Radio Time-Domain Studies. PI: Geoffrey Bower (UC Berkeley), Total: \$25,000, UCB Amount: \$25,000.
07/2008 - 07/2011	NSF, Radio Transient and SETI Sky Surveys Using the Arecibo L-Band Feed Array. Co-PI: Geoffrey Bower (UC Berkeley), Total: \$362,624, UCB Amount: \$362,624.
07/2008 - 07/2009	SETI Institute, The Allen Telescope Array - Equipment and Base Facility Operations. Co-PI: Geoffrey Bower (UC Berkeley), Total: \$331,000, UCB Amount: \$331,000.
06/2006 - 06/2008	Smithsonian Astrophysical Observatory, A Legacy Study of Stellar Life Cycles in the Galactic Center. Co-PI: Geoffrey Bower (UC Berkeley), Total: \$5,000, UCB Amount: \$5,000.

