

Debra Fischer

Dept Astronomy
Yale University
260 Whitney, JW Gibbs 259
New Haven, CT 06520

Curriculum Vitae, Jan 2012

Tel: (203) 432-1613
Fax: (203) 432-5048
email:debra.fischer@yale
<http://www.astro.yale.edu/>

Education

1998 Ph. D. Astrophysics University of California, Santa Cruz
1992 M.S., Physics, San Francisco State University
1975 B.S., University of Iowa

Professional Experience

2009 - Professor, Dept Astronomy
Yale University
2008 – 2009 Associate Professor, Dept of Physics and Astronomy
San Francisco State University
2003 – 2008 Assistant Professor, Department of Physics and Astronomy
San Francisco State University
2000 - 2003 Research Astronomer, Department of Astronomy
University of California, Berkeley
1999 – 2000 Post doctoral Fellow, Department of Astronomy
University of California, Berkeley
1998 – 1999 Postdoctoral Fellow, Department of Astronomy
San Francisco State University

Honors and Awards

2010 Connecticut Academy of Science and Engineering
2009 Radcliffe Institute Fellow: Sept 2009 – June 2010
2005-2007 Cottrell Science Scholar
2004 Professional Astronomer for the Communication of Science, Amateur
Astronomer Society of Northern California
2004 Benjamin Dean Lecturer, California Academy of Science
2002 Carl Sagan Award, American Astronautical Society
1997 California Space Grant, NASA
1994 Marilyn C. Davis Scholarship, UCSC
1993 Graduate Student Fellowship, NSF

Debra Fischer is a Professor of Astronomy at Yale University who began hunting for exoplanets in 1997 by measuring tiny periodic shifts in the radial velocities of other stars. She discovered the first known multiple planet system in 1999 and contributed to the understanding of planet formation with analysis that quantified the impact of chemical composition on the formation of planets. From 2003 – 2008, she led an international consortium to carry out a search for planets around metal-rich stars; that project alone detected more than 50 new extrasolar planets. Some of these planets transit in front of their host stars and the measured decrement

in starlight reveals the mass, size and density of the planets. Theoretical models of these transiting planets demonstrated an incredible diversity in the interior structure of unseen planets orbiting stars that are a hundred light years away. She is the PI for CHIRON, a high-resolution spectrometer commissioned at CTIO in March 2011, where her team is carrying out a search for rocky planets around our nearest stellar neighbors, the alpha Centauri A and B stars. In her lab at Yale, Fischer's team is developing next generation instrument designs that aim to break current records and detect Earth analogues that will be targets in the search for life on other worlds

Professional Duties/Service

- 2011 - NSF Portfolio Review Committee
- 2010 - NASA Management Operations Working group
- 2006 - 2009 NASA Advisory Committee, astrophysics subcommittee
- 2007 – 2008 Exoplanet Task Force, Advisory Committee to NSF and NASA
- 2008 Member. Hubble Fellowship Selection Panel
- 2006 - 2007 Member Scientific Organizing Committee for “Extreme Solar Systems,” An international conference honoring Alex Wolszczan (June 26 – 29, 2007 in Santorini, Greece). Co-Editor of the conference proceedings for this meeting
- 2004 - 2006 Member NOAO Telescope *Time Assignment Committee*
- 2004 - 2006 Member, *NASA Management Operations Working Group* for the IRTF and Keck
- 2004 - 2009 Member, *NASA/JPL Review Panel* for Michaelson Fellowship proposals
- 2004 Member, *Scientific Organizing Committee From Dust to Planets* Ringberg Castle, Germany
- 2004 - 2006 Elected to *Board of Trustees*, Astronomical Society of the Pacific
- 2003 Member, *Scientific Organizing Committee* for Joint European National Meeting in Astronomy (JENAM), Hungary

Recent Professional Invited Talks

- 2011 Plenary Talk, Danish Physical Society (Nyborg, DN) (Jun 22)
- 2011 Plenary Talk, AAS Boston (May 25)
- 2011 Columbia University (Feb 16)
- 2010 Texas A&M (Oct 14)
- 2010 Penn State University (Aug 16)
- 2009 Cambridge University, UK (Aug 20)
- 2009 University of Washington Colloquium (May 20)
- 2009 JPL Colloquium “Planets in Binary Star Systems” (Apr 29)
- 2008 Colloquium: Yale University (Oct 17)
- 2008 Invited speaker Coalition Evolution of Life, National Academy of Science (Oct)

Recent Public Education/Outreach

- 2010 Discover Magazine “One of eleven leading thinkers”
- 2010 Astronomy Magazine “How will we find another Earth”
- 2009 University of Washington public lecture (May 2009)
- 2009 Featured in Discover Magazine (May 2009)
- 2009 “The Search for Earths” public talk at Guelph University (Apr 2)
- 2009 Press Conference: Kepler Launch (Feb 19)
- 2009 Speaker: 50th Anniversary Humboldt County Amateur Astronomers (Feb 7)
- 2009 Caltech NSF/Discover talk with Brown, Fischer, Ghez, Perlmutter (Jan 30)
- 2009 Luncheon speaker St. Francis Yacht Club Jan 21
- 2008 KQED: Quest Radio interview (August)
- 2007 Featured in “The Universe: Alien Planets” History Channel (film, Nov 27)

Refereed Journal Articles

- [165] Borucki, W. J. et al. (83 co-authors) 2012 “Kepler 22b: A 2.4 Earth-radius Planet in the Habitable Zone of a Sunlike Star,” *ApJ*, 745, 120
- [164] Quinn, S. N., et al. (21 co-authors) 2012, “HAT-P-25b: A Hot Jupiter Transiting a Moderately faint G star,” *ApJ*, 745, 80
- [163] Fischer, D. A., et al. (18 co-authors) 2012, “M2K. II. A Triple Planet System Orbiting HIP57274,” *ApJ*, 745, 21
- [162] Giguere, M. J., Fischer, D. A., Howard, A. W., Johnson, J. A., Henry, G. W., Wright, J. T., Marcy, G. W., Isaacson, H. T., Hou, F., Spronck, J. 2012 “A High Eccentricity Component in the Double-Planet System Around HD 163607 and a Planet Around HD164509,” *ApJ*, 744, 4
- [161] Pilyavsky, G. et al. (15 co-authors) 2011 “A Search for the Transit of HD168443b, Improved Orbital Parameters and Photometry,” *ApJ* 743, 162
- [160] Bakos, G. A. et al (21 co-authors) 2011 “HAT-P-20b-HAT-P-23b: Four Massive Transiting Extrasolar Planets,” *ApJ*, 742, 116
- [159] Fischer, D. A. et al. (30 co-authors) 2011 “Planet Hunters: the first two planets discovered by the public using the Kepler public archive data,” *MNRAS* 1975
- [158] Fortney, J. J. et al. (36 co-authors) 2011 “Discovery and Atmospheric Characterization of Giant Planet Kepler 12-b: An Inflated Radius Outlier
- [157] Cochran, W. D. et al. (53 co-authors) 2011 “Kepler 18b, c, and d: A System of Three Planets Confirmed by Transit timing variations, Light curve validation, warm Spitzer photometry and Radial Velocity Measurements,” *ApJS*, 197, 7
- [156] Buchave, L. A. et al. (48 co-authors) 2011 “Kepler-14b: A Massive Hot Jupiter Transiting a F Star in a Close Visual Binary,” *ApJS*, 197, 3

- [155] Hartman, J. D. et al. 2011, "HAT-P-32b and HAT-P-33b: Two Highly Inflated Hot Jupiters Transiting High-jitter Stars," *ApJ* 742, 59
- [154] Winn, J. N. et al (34 co-authors) 2011, "Spin-Orbit Alignment for the Circumbinary Planet Host Kepler-16A," *ApJL*, 741, 1
- [153] Doyle, L. R. et al (48 co-authors) 2011, "Kepler-16: A Transiting Circumbinary Planet," *Sci*, 333, 1602
- [152] Albrecht, S. et al. (11 co-authors) 2011, "Two Upper Limits on the Rossiter-McLaughlin Effect, with Differing Implications: WASP-1 has a High Obliquity and WASP-2 is Indeterminate," *ApJ* 738, 50
- [151] Kipping, D. M. et al. (23 co-authors) 2011, "HAT-P-31b,c: A transiting eccentric hot Jupiter and a long period massive third body," *AJ*, 142, 95
- [150] Kane, Stephen R.; Henry, Gregory W.; Dragomir, Diana; **Fischer, Debra A.**; Howard, Andrew W.; Wang, Xuesong; Wright, Jason T. 2010, "Revised Orbit and Transit Exclusion for HD 114762b" *ApJ*, 735, 41
- [149] Johnson, J. A. et al. (21 co-authors) 2011, "HAT-P-30b: A Transiting Hot Jupiter on a High Obliquity Orbit," *ApJ* 735, 24
- [148] Beky, B. et al. (22 co-authors) 2011 "HAT-P-27b: A Hot Jupiter Transiting a G Star on a 3 Day Orbit," *ApJ* 734, 109
- [147] Buchave, L. A., et al (24 co-authors) 2011 "HAT-P-28b and HAT-P-29b: Two Sub-Jupiter Mass Transiting Planets," *ApJ*, 733, 116
- [146] Wright, J. T., Veras, D., Ford, E. B., Johnson, J. A., Marcy, G. W., Howard, A. W., Isaacson, H., Fischer, D. A., Spronck, J., Anderson, J., Valenti, J., 2011, "The Exoplanet Orbit Database," *PASP*, 123, 412
- [145] Wright, J. T., Johnson, J. A., Marcy, G. W., Fischer, D. A., Wright, J. T., Henry, G. W., Isaacson, H., Valenti, J. A., Anderson, J., Piskunov, N. E. 2011 "The California Planet Survey. III. A Possible 2:1 Resonance in the Exoplanetary Triple System HD37124," *ApJ* 730, 93
- [144] Howard, Andrew W.; Johnson, John Asher; Marcy, Geoffrey W.; **Fischer, Debra A.**; Wright, Jason T.; Henry, Gregory W.; Isaacson, Howard; Valenti, Jeff A.; Anderson, Jay; Piskunov, Nikolai E., 2011, "The NASA-UC Eta-Earth Program. III. A Super-Earth Orbiting HD 97658 and a Neptune-mass Planet Orbiting Gl 785" *ApJ*, 730, 10
- [143] Batalha, Natalie M. et al. (51 co-authors) 2011, "Kepler's First Rocky Planet: Kepler-10b" *ApJ*, 729, 27
- [142] Hartman, J. D. et al 2011 "HAT-P-26b: A Low-Density Neptune-mass planet orbiting a K star," *ApJ*, 728, 138

- [141] Borucki, William J. et. al. (61 co-authors) 2011, "Characteristics of Kepler Planetary Candidates Based on the First Data Set" ApJ 728, 117
- [140] Howard, Andrew W.; Johnson, John Asher; Marcy, Geoffrey W.; **Fischer, Debra A.**; Wright, Jason T.; Henry, Gregory W.; Isaacson, Howard; Valenti, Jeff A.; Anderson, Jay; Piskunov, Nikolai E., 2011, "The NASA-UC Eta-Earth Program. II. A Planet Orbiting HD 156668 with a Minimum Mass of Four Earth Masses" ApJ, 726, 73
- [139] Hartman, J. D. et. al., 2011, "HAT-P-18b and HAT-P-19b: Two Low-density Saturn-mass Planets Transiting Metal-rich K Stars" ApJ 726, 52
- [138] Johnson, J. et al. (12 co-authors) 2011 "Retired A Stars and Their Companions: VI. A Pair of Interacting Pairs Around the Subgiants 24 Sextanis and HD200924," AJ, 141, 16
- [137] Spronck, J. F. P.; Schwab, C.; **Fischer, D. A.**, 2010, "Fiber-stabilized PSF for sub-m/s Doppler precision at Lick Observatory" SPIE, 7735, 31
- [136] Schwab, Christian; Spronck, Julien F. P.; Tokovinin, Andrei; **Fischer, Debra A.**, 2010, "Design of the CHIRON high-resolution spectrometer at CTIO" SPIE, 7739, 154
- [135] Lovis, C. & Fischer, D. A. 2010, "Radial Velocity" chapter in "Exoplanets" Ed. Sara Seager, Space Science Reviews.
- [134] Kipping, D. M. et al. (and 19 co-authors) 2010 "HAT-P-24b: An Inflated Hot Jupiter on a 3.36 Day Period Transiting a Hot, Metal-poor Star
- [133] Isaacson, H. & **Fischer, D. A.**, 2010 Chromospheric Activity and Stellar Jitter Measurements for 2600 California Planet Search Stars" ApJ, 725, 875
- [132] Jenkins, Jon M. et. al., (53 co-authors) 2010, "Discovery and Rossiter-McLaughlin Effect of Exoplanet Kepler-8b" ApJ, 724, 1108
- [131] Kovacs, G., Bakos, G. A., Hartman, J. D., Torres, G., Noyes, R. W., Latham, D. W., Howard, A. W., Fischer, D. A. (10 co-authors) 2010 "HAT-P-15b: A 10.9 Day Extrasolar planet Transiting a Solar Type Star," ApJ 724, 866
- [130] Howard, Andrew W.; Marcy, Geoffrey W.; Johnson, John Asher; **Fischer, Debra A.**; Wright, Jason T.; Isaacson, Howard; Valenti, Jeff A.; Anderson, Jay; Lin, Doug N. C.; Ida, Shigeru, 2010, "The Occurrence and Mass Distribution of Close-in Super-Earths, Neptunes, and Jupiters" Sci, 330, 653
- [129] Holman, M. et al. (41 co-authors) 2010, "Kepler-9: A System of Multiple Planets Transiting a Sunlike Star Confirmed by Timing Variations," Sci, 30, 51
- [128] Johnson, J. A., Bowler, B. P., Howard, A. W., Henry, G. W., Marcy, G. W., Isaacson, H., Brewer, J. M., Fischer, D. A., Morton, T. D., Crepp, J. R. 2010, "A Hot Jupiter Orbiting the 1.7 Msun Subgiant, HD 102956," ApJL, 721, 153

- [127] Howard, Andrew W.; Johnson, John Asher; Marcy, Geoffrey W.; Fischer, Debra A. et al., 2010, "The California Planet Survey. I. Four New Giant Exoplanets" ApJ 721, 1467
- [126] Kane, S. R., Reffert, S., Henry, G. W., Fischer, D., Schwab, C., Clubb, K. I., Bergmann, C. 2010 "On the Transit Potential of the Planet Orbiting Iota Draconis," ApJ, 720, 1644
- [125] Buchave, L. et al. (21 co-authors) 2010 "HAT-P-16b: A 4 MJ Planet Transiting a Bright Star on an Eccentric Orbit," ApJ 720, 1118
- [124] Schnupp, C., Bergfors, C., Brandner, W., Daemgen, S., Fischer, D., Marcy, G., Henning, T., Hippler, S., Janson, M. 2010 "Discovery of a stellar companion to the nearby solar analog, HD104304," A&A, 516, 21
- [123] Johnson, J. A., Howard, A. W., Bowler, B. P., Henry, G. W., Marcy, G. W., Wright, J. T., Fischer, D. A., Isaacson, H. 2010 "Retired A Stars and their Companions. IV. Seven Jovian Exoplanets from Keck Observatory," PASP, 122, 701
- [122] Harakawa, H., Sato, B., Fischer, D. A., Ida, S., Omiya, M. Johnson, J. A., Marcy, G. W., Toyota, E., Hori, Y., Howard, A. W. 2010 "Detection of a low-eccentricity and super-massive planet to the subgiant HD 38801," ApJ, 715, 550
- [121] Torres, G., Bakos, G. A., Hartman, J., Kovacs, G., Noyes, R. W., Latham, D. W., Fischer, D. A., Johnson, J. A., (and 11 co-authors) 2010 "HAT 14-b: A 2.2M_J Exoplanet Orbiting a Bright F Star," ApJ, 715, 458
- [120] Gregory, Philip C.; **Fischer, Debra A.** 2010, "A Bayesian periodogram finds evidence for three planets in 47 Ursae Majoris" MNRAS, 403, 731
- [119] Dunham, E. W. et al. (24 co-authors) 2010 "Kepler 6b. A Transiting Hot Jupiter Orbiting a Metal-rich star," ApJ 713, 136
- [118] Borucki, W. J. et al. (70 co-authors) 2010 "Kepler Planet Detection Mission: Introduction and First Results," Sci 327, 977
- [117] Apps, Kevin; Clubb, Kelsey I.; **Fischer, Debra A.** et al., 2010, "M2K: I. A Jupiter-Mass Planet Orbiting the M3V Star HIP 79431" PASP, 122, 156
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- [114] Bakos, G. Á., Torres, G., Pál, A., Hartman, J., Kovács, Géza, Noyes, R. W., Latham, D. W.; Sasselov, D. D., Sipőcz, B., Esquerdo, G. A., **Fischer, D. A.**, Johnson, J. A., Marcy, G. W., Butler, R. P., Isaacson, H., Howard, A., Vogt, S., Kovács, Gábor,

- Fernandez, J., Moór, A., Stefanik, R. P., Lázár, J., Papp, I., Sári, P., 2009. "HAT-P-11b: A Super-Neptune Planet Transiting a Bright K Star in the Kepler Field," *ApJ*, 710, 1724
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- [111] Bakos, G. A., Howard, A. W., Noyes, R. W., Hartman, J., Torres, G., Kovacs, Geza, **Fischer, D. A.**, et al., 2009, "HAT-P-13 b, c: A transiting Hot Jupiter with a massive outer companion on an eccentric orbit" *ApJL*, 707, 446
- [110] Hartman, J. D., Bakos, G. A., Torres, G., Kovacs, G., Noyes, R. W., Pal, A., Latham, D. W. Sipocz, B., Fischer, D. A. (plus 12 co-authors) 2009, "HAT-P-12b: A Low-Density Sub-Saturn mass Planet orbiting a Metal-Poor K Dwarf," *ApJ*, 706, 785
- [109] Latham, David W., Bakos, G. Á., Torres, G., Stefanik, R. P., Noyes, R. W., Kovács, Géza, Pál, A., Marcy, G. W., **Fischer, D. A.**, Butler, R. P., Sipocz, Br., Sasselov, D. D., Esquerdo, G. A., Vogt, S. S., Hartman, J. D., Kovács, G., Lázár, J., Papp, I., Sári, P. 2009, "HATNet Field G205: Follow-Up Observations of 28 Transiting-Planet candidates and Confirmation of the Planet HAT-P-8b" *ApJ*, 704, 1107
- [108] **Fischer, D.A.**, Driscoll, P., Isaacson, H., Giguere, M., Marcy, G., Valenti, J. A., Henry, G. W., Wright, J. T., Howard, A., Peek, K.G.R., Johnson, J.A. 2009 "Five new planets and Independent Confirmation of HD196885b from Lick Observatory" *ApJ* 703, 1545
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- [106] Valenti, J. A., **Fischer, D. A.** et al., 2009 Two Exoplanets from Keck Observatory, *ApJ*
- [105] Pál, A., Bakos, G. Á., Fernandez, J., Sipöcz, B., Torres, G., Latham, D. W., Kovács, Géza, Noyes, R. W., Marcy, G. W., **Fischer, D. A.**, Butler, R. P., Sasselov, D. D., Esquerdo, G. A., Shporer, A., Mazeh, T., Stefanik, R. P., Kovács, Gábor, 2009. "Independent discovery and refined parameters of XO-5b: a hot Jupiter transiting a moderately faint star" *ApJ*, 700
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- Butler, R. P., Howard, A., Sasselov, D. D., Kovacs, Gabor, Stefanik, R. P., Lazar, J., Papp, I., Sari, P. 2009, "HAT-P-10b: A light and moderately hot Jupiter transiting a K dwarf" ApJ, 696, 1950
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- [100] Wright, J. T., Upadhyay, S., Marcy, G. W., **Fischer, D. A.**, Ford, E. B., Johnson, J. A., 2009, "Ten New and Updated Multi-planet Systems, and a Survey of Exoplanetary Systems" ApJ, 693, 1084
- [99] Winn, J. N., Holman, M. J., Henry, G. W., Torres, G., Fischer, D., Johnson, J., Marcy, G. W., Shporer, A., Mazeh, T., 2009 "The Transit Light Curve Project. X. A Christmas Transit of HD 17156b," ApJ, 693, 794
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- [95] **Fischer, D.A.**, 2008, "Mapping the Realm of Hot Jupiters" PhST, 130a4002.
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"Extreme Solar Systems", Proceedings of an International Conference on Exoplanets held in Santorini, Greece, ASP Conference Series, Vol 398. June 2007. Ed. D. Fischer, R. Rasio, S. Thorsett, A. Wolszczan,