

## **Debra Fischer**

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### ***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 Postdoctoral Fellow, Department of Astronomy  
San Francisco State University

### ***Professional Biography***

Debra Fischer began hunting for exoplanets in 1997 by measuring Doppler shifts in the spectra of stars. She has discovered hundreds of extrasolar planets with this technique, including the first known multiple planet system in 1999. Her team is developing next generation spectrometers and machine learning analysis techniques to transition from current state of the art precision of 1 m/s to 0.1 m/s to detect Earth analogues that will be targets in the search for life on other worlds.

### ***Honors and Awards***

2016 Cecilia Payne Gaposkin Lecturer at the Harvard-Smithsonian Center for Astrophysics  
2012 American Academy of Arts and Science  
2010 Connecticut Academy of Science and Engineering  
2009 Fellow: Radcliffe Institute for Advanced Studies

### ***Selected Bibliography***

**Fischer, D. A.** (55 co-authors) 2016, “State of the Field: Extreme Precision Radial Velocities” PASP 128f6001  
**Fischer, D. A.**, Marcy, G. W., Spronck, J. F. P. 2014, “The Twenty-Five Year Lick Planet Search” ApJS, 210, 5  
**Fischer, D. A.**, (30 co-authors) 2012, “Planet Hunters: the first two planet candidates identified by the public using the Kepler public archive data” MNRAS, 419, 2900  
**Fischer, D. A.**, Valenti, J. 2005 “Planet-Metallicity correlation: Spectral Synthesis Modeling of 1040 Stars.” ApJ, 632.1102  
**Fischer, D. A.**, (23 co-authors) 2004. “*The N2K Consortium. I.* A Hot Saturn Planet Orbiting HD 88133, from the N2K Consortium.” ApJ, 620, 481

### ***Recent Professional Duties/Service***

|             |   |
|-------------|---|
| 2016 – 2020 | Community co-Chair of the NASA Large Ultra-Violet Optical and InfraRed (LUVOIR) study for a next generation space-based telescope |
| 2016 – 2019 | NASA Astrophysics Subcommittee  |
| 2015 – 2016 | Keck Science Steering Committee   |
| 2015        | Organizer for the Extreme Precision Radial Velocity Workshop at Yale (July 5-8)   |
| 2015 – 2017 | Swiss National Science Foundation NCCR PlanetS review panel   |
| 2014 – 2015 | NSF OIR Committee   |
| 2014        | Rice University Physics & Astronomy Department Review   |
| 2013 – 2014 | Gemini Science and Technology Advisory Committee  |
| 2012        | Member. Sagan Fellow Selection committee  |
| 2012 - 2014 | Committee for Astronomy and Astrophysics  |
| 2012        | OSU Astronomy Dept Review   |
| 2011 – 2012 | NSF Portfolio Review Committee  |
| 2010 – 2013 | NASA Management Operations Working group for Keck and the IRTF  |
| 2006 – 2009 | NASA Advisory Committee, astrophysics subcommittee  |
| 2007 – 2008 | Exoplanet Task Force, Advisory Committee to NSF and NASA  |

### ***Recent Professional Invited Talks***

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|-------------|--|
| 2016        | Invited talk, Center for Planetary Sciences “Planet Day” Toronto, Canada       |
| 2015 – 2016 | Keck Institute for Space Science Workshop on Optical Frequency Combs in Space  |
| 2015        | Aarhus Visiting Scholar (May 2015)   |
| 2015        | Bell Lecture McGill University (Mar 12, 13)                                    |
| 2015        | Colloquium Ohio State University (Feb 26)                                      |
| 2015        | Colloquium Space Telescope (Feb 11)  |
| 2015        | Colloquium Arizona State Univ (Jan 12)   |
| 2014        | Invited talk: Stellar Astrophysics Centre Retreat in Tenerife (Oct 22)         |
| 2014        | Colloquium U Mass Amherst (Sept 25)  |
| 2014        | Colloquium MIT (Sept 9)  |
| 2014        | Colloquium Yale Physics (Sept)   |
| 2014        | Invited talk: Fiber Optics Meeting in Cambridge MA (Aug)                       |
| 2014        | Invited talk: Taiwan Astronomical Society (July)                               |
| 2014        | Colloquium UCLA (May 7)  |
| 2014        | Colloquium U Maryland (Apr 29)   |
| 2013        | Colloquium Stanford University (Jun 6)   |
| 2013        | Potsdam Thinktank2013: “RV precision as a metric for instrument design” (5/29) |
| 2013        | Colloquium, Lowell Observatory (May 23)  |
| 2013        | Colloquium, Princeton University (Mar 19)                                      |
| 2013        | Colloquium, University of Chicago (Mar 13)                                     |

### ***Recent Public Education/Outreach***

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|------|--|
| 2015 | Sigma Xi Distinguished Lecturer (Albuquerque NM, Fairfield CT, Burlington VT<br>Kirksville MO, Portland, OR) |
| 2015 | Science Cafe, Bar restaurant in New Haven CT   |
| 2014 | NPR Radio: “What’s new in Astronomy?” (Dec)  |
| 2013 | IAU Symposium 299 (Aug)  |
| 2012 | SETI-con (Jun 24)  |
| 2012 | Amateur Astronomers of New York  |
| 2010 | Discover Magazine “One of eleven leading thinkers”   |
| 2010 | Astronomy Magazine “How will we find another Earth”  |

### ***Refereed Journal Articles***

- [260] Brewer, J. M., **Fischer, D. A.**, 2016 “C/O and Mg/Si Ratios of Stars in the Solar Neighborhood” arXiv 160806286
- [259] Ortiz, M. and 13 co-authors 2016, “Precise radial velocities of giant stars IX. HD 59686 Ab: a massive circumstellar planet orbiting a giant star in a  $\sim 13.6$  au eccentric binary system” arXiv 160800963
- [258] Piskorz, D., Benneke, B., Crockett, N. R., Lockwood, A. C., Blake, G.A., Barman, T.S., Bender, C.F., Bryan, M. L., Carr, J. S., **Fischer, D. A.** 2016, “Evidence for the Direct Detection of the Thermal Spectrum of the Non-Transiting Hot Gas Giant HD 88133 b” arXiv 160909074
- [257] Brewer, J. M., **Fischer, D. A.**, Valenti, J. A., Piskunov, N. 2016, “Spectral Properties of Cool Stars: Extended Abundance Analysis of 1,617 Planet-search Stars” ApJS, 225, 32
- [256] **Fischer, D. A.** (and 55 co-authors) 2016, “State of the Field: Extreme Precision Radial Velocities” PASP 128f6001
- [255] Giguere, M. J., **Fischer, D. A.**, Zhang, C. X. Y., Matthews, J. M., Cameron, C., Henry, G. W. 2016, “A Combined Spectroscopic and Photometric Stellar Activity Study of Epsilon Eridani” ApJ, 824, 150
- [254] Schmitt, J. R., Tokovinin, A., Wang, J., Fischer, D. A. (and 20 co-authors) 2016, Planet Hunters X. Searching for Nearby Neighbors of 75 Planet and Eclipsing Binary Candidates from the K2 Kepler Extended Mission” AJ, 151, 159
- [253] Boyajian, T. S., LaCourse, D. M., Rappaport, S. A., Fabrycky, D., **Fischer, D. A.** (and 44 co-authors) 2016, “Planet Hunters IX. KIC 8462852 – Where’s the flux?” MNRAS 457, 3988
- [252] Jurgenson, C., **Fischer, D.**, McCracken, T., Sawyer, D., Szymkowiak, A., Davis, A. B., Muller, G., Santoro, F. 2016, “EXPRES: A Next Generation RV Spectrograph in the Search for Earth-like Worlds”
- [251] Jurgenson, C. A., **Fischer, D. A.**, McCracken, T., Sawyer, D., Szymkowiak, A., Giguere, M., Santoro, F., Muller, G. 2016, “Design and Construction of VUES: the Vilnius University Echelle Spectrograph” JAI, 550003
- [250] Kane, S. R. (and 18 co-authors) 2016, “Evidence for Reflected Light from the most eccentric exoplanet known” ApJ, 821, 65
- [249] Kirk, B. and 49 co-authors) 2015, “Kepler Eclipsing Binary Stars. VII. The Catalog of Eclipsing Binaries in the entire Kepler Data-Set” AJ, 151, 68
- [248] Wang, J., **Fischer, D. A.** (and 31 co-authors) 2015, “Planet Hunters. VIII. Characterization of 41 Long-period Exoplanet Candidates from the Kepler Archival Data” ApJ, 815, 127
- [247] Hartmann, J. D. (and 26 co-authors) 2015, “HAT-P-57b: A short-period giant planet transiting a bright rapidly rotating A8V star confirmed via Doppler Tomography” AJ, 150, 197
- [246] Hinkel, N. R., Kane, S. R., Pilyavsky, G., Boyajian, T. S., James, D. J., Naef, D., **Fischer, D. A.**,

- Udry, S. 2015, “A New Analysis of the exoplanet hosting system HD 6434” *AJ*, 150, 169
- [245] Spronck, J. F. P., **Fischer, D. A.**, Kaplan, Z., Jurgenson, C. A., Valenti, J., Moriarty, J., Szmokowiak, A. E. 2015, “Fiber Scrambling for High-Resolution Spectrographs. II. A Double Fiber Scrambler for Keck Observatory” *PASP*, 127, 1027
- [244] Wang, J., **Fischer, D. A.**, Xie, X.-W., Ciardi, D. R. 2015, “Influence of Stellar Multiplicity on Planet Formation IV. Adaptive Optics Imaging of Kepler Stars with Multiple Transiting Planet Candidates” *ApJ*, 813, 130
- [243] Lacourse, D. M. (and 17 co-authors) 2015, “Kepler eclipsing binary stars in the Campaign 0 data set” *MNRAS* 452, 356
- [242] Moriarty, J. and **Fischer, D. A.** 2015, “Building massive compact planetesimal disks from the accretion of pebbles” *ApJ*, 809, 94
- [241] Wang, J., **Fischer, D. A.**, Horch, E. P., Xie, J.-W. 2015, “Influence of Stellar Multiplicity On Planet Formation. III. Adaptive Optics Imaging of Kepler Stars With Gas Giant Planets” *ApJ*, 806, 248
- [240] Kane, S. R., Boyajian, T. S., Henry, G. W., Feng, Y. K., Hinkel, N. R., **Fischer, D.A.**, von braun, K., Howard, A. W., Wright, J. T. 2015, “A Comprehensive Characterization of the 70 Virginis Planetary System” *ApJ*, 806, 60
- [239] Harakawa, H., Sato, B., Omiya, M., **Fischer, D. A.**, and 12 co-authors 2015, “Five New Exoplanets Orbiting Three Metal-Rich, Massive Stars: Two-Planet Systems Including Long-Period Planets, and an Eccentric Planet” *ApJ*, 806, 5
- [238] Brewer, J., **Fischer, D. A.**, Basu, S., Valenti, J., Piskunov, N. 2015 “Accurate Gravities of F, G, and K stars from High Resolution Spectra Without External Constraints” *ApJ* 805, 126
- [237] Plavchan, P. et al. 2015 “Radial Velocity Prospects Current and Future: A White Paper Report prepared by the Study Analysis Group 8 for the Exoplanet Program Analysis Group (ExoPAG)” arXiv150301770
- [236] LaCourse, D. M., Jek, K.J., Jacobs, T.L., Winarski, T., Boyajian, T.S., Rappaport, S.A., Sanchis-Ojeda, R., Conroy, K.E., Nelson, L., Barclay, T., **Fischer, D. A.**, Schmitt, J.R., Wang, J., Prša, A, Stassun, K.G., Pepper, J., Coughlin, J.L., Shporer, A. 2015, “Kepler Eclipsing Binary Stars. VI. Identification of Eclipsing Binaries in the K2 Campaign 0 Data-set” *MNRAS*, 452, 356
- [235] Hillenbrand, L, Isaacson, H., Marcy, G. W., Barenfeld, S., **Fischer, D.**, Howard, A. 2014, “Empirical Limits on Radial Velocity Precision for Young Stars” 18<sup>th</sup> Cambridge Workshop on Cool Stars, Stellar Systems and the Sun, Proceedings of the Conference held at Lowell Observatory 8 – 14 June 2014, Ed G. van Belle and H. C. Harris
- [234] Jung, H., Stoll, R., Guo, X, **Fischer, D.**, Tang, H. X. 2014, “Green, Red and IR Frequency Comb Generation from a single IR pump in AlN microring resonator” *Optics Express*, 17, 22609, 29
- [233] Hinkel, N.R., Kane, S.R., Henry, G.W., Feng, Y., K., Boyajian, T., Wright, J., **Fischer, D.A.**, Howard, A.W. 2015, “Refined Properties of the HD 130322 Planetary System” *ApJ*, 803, 8

- [232] Boyajian, T., von Braun, K., Feiden, G.A., Huber, D., Basu, S., Demarque, P., **Fischer, D.A.**, Schaefer, G., Mann, A.W., White, T.R. (and 17 co-authors) 2015, “Stellar Diameters and Temperatures VI. High angular resolution measurements of the transiting exoplanet host stars HD 189733 and HD 209458 and implications for models of cool dwarfs” MNRAS, 447, 846
- [231] Tanner, A., Boyajian, T.S., von Braun, K., Kane, S., Brewer, J.M., Farrington, C., van Belle, G.T., Beichman, C.A., **Fischer, D.**, ten Brummelaar, T.A., McAlister, H., Shaefer, G. 2015, Stellar Parameters for HD 69830, a Nearby Star with Three Neptune Mass Planets and an Asteroid Belt” ApJ, 800, 115
- [230] Wang, J., **Fischer, D. A.**, Horch, E. P., Huang, X. 2015, “On the Occurrence Rate of Hot Jupiters in Different Stellar Environments” ApJ, 799, 229
- [229] Campante, T.L. and 40 co-authors 2015, “An Ancient Extrasolar System with Five Sub-Earth Sized Planets” ApJ, 799, 170
- [228] Giguere, M.J., **Fischer, D. A.**, Payne, M. J., Brewer, J. M., Johnson, J.A., Howard, A. W., Isaacson, H.T. 2015, “Newly-Discovered Planets Orbiting HD 5319, HD 11506, HD 75784 and HD 10442 from the N2K Consortium” ApJ, 799, 89
- [227] Wang, J., **Fischer, D.A.**, 2015, “Revealing a Universal Planet-Metallicity Correlation for Planets of Different Solar-Type stars” AJ, 149, 14
- [226] Tokovinin, A., Pribulla, T., **Fischer, D.** 2015, “Radial Velocities of Southern Visual Multiple Stars” AJ, 149, 8
- [225] Schmitt, J.R., Agol, E., Deck, K.M., Rogers, L.A., Gazak, J. Z., **Fischer, D.A.**, Wang, J., Holman, M.J., Jek, K.J., Margossian, C. (and 11 co-authors) 2014, “Planet Hunters. VII. Discovery of a New Low-mass, Low-density Planet (PH3 C) Orbiting Kepler-289 with Mass Measurements of Two Additional Planets (PH3 B and D)” ApJ, 795, 167
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- [222] Wang, J., **Fischer, D. A.**, Ciardi, D. R., Jiwei, X. 2014, “Influence of Stellar Multiplicity On Planet Formation. II. Planets Are Less Common in Multiple-Star Systems with Separations Smaller than 1500 AU” ApJ, 791, 111
- [221] Schmitt, J., Wang, J., **Fischer, D. A.**, (15 co-authors) “Planet Hunters VI: The First Kepler Seven Planet Candidate System and 13 Other Planet Candidates from the Kepler Archival Data” AJ, 148, 28

- [220] Jurgenson, C.A., **Fischer, D.A.**, McCracken, T.M., Stoll, R.A., Szymkowiak, A.E., Giguere, M.J., Santoro, F.G., Muller, G. 2014, “Design of a radial velocity spectrograph for the Moletai Astronomical Observatory” SPIE, 9147E..7FJ
- [219] McCracken, T.M., Jurgenson, C.A., **Fischer, D.A.**, Stoll, R.A., Szymkowiak, A.E., Branford, J., Rutter, W. 2014, “Single-lock: a stable Fabry-Perot based wavelength calibrator” SPIE9147E..3LM
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- [217] Hartman, J. D. (and 28 co-authors) 2014, “HAT-P-44b, HAT-P-45b and HAT-P-46b: Three Transiting Hot Jupiters in Possible Multi-Planet Systems” AJ, 147, 128
- [216] Moriarty, J. C., Madhusudhan, N., **Fischer, D. A.** 2013, “Chemistry in an Evolving Protoplanetary Disk: Effects on Terrestrial Planet Composition” ApJ 787, 81
- [215] Vogt, S. S. 2014, “APF-The Lick Observatory Automated Planet Finder” PASP, 126, 359
- [214] Wang, J., Xie, J.-W., Barclay, T., **Fischer, D. A.** 2014, “Influence of Stellar Multiplicity on Planet Formation. I. An Insight From *Kepler* Multiple Planet Candidate Systems” ApJ 783, 4
- [213] Marcy, G. W. (and 102 co-authors) 2014, “Masses, Radii and Orbits of Small Kepler Planets: The Transition from Gaseous to Rocky Planets” ApJS 210, 20
- [212] Collins, K. A. (41 co-authors) 2014, “KELT-6b: A P~79. D Hot Saturn Transiting a Metal-Poor Star with a Long-Period Companion” AJ, 147, 39
- [211] Brewer, J. M., Giguere, M., **Fischer, D. A.** 2013, “CHIRON TOOLS: Integrated Target Submission, Scheduling and Observing Systems for a High Resolution Fiber Fed Spectrograph” PASP, 126, 48
- [210] **Fischer, D. A.**, Marcy, G. W., Spronck, J. F. P. 2014, “The Twenty Five Year Lick Planet Search” ApJS, 210, 5
- [209] Crepp, J. R., Johnson, J. A., Howard, A. W., Marcy, G. W., Brewer, J., **Fischer, D.**, Wright, J. T., Isaacson, H. 2014, “The TRENDS High-contrast Imaging Survey. V. Discovery of an Old and Cold Benchmark T-dwarf Orbiting the Nearby G-star HD 19467” ApJ, 781, 29
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- [206] Wang, J., **Fischer, D. A.** (and 20 co-authors) 2013 “Planet Hunters. V. A Confirmed Jupiter-Size Planet in the Habitable Zone and 42 Planet Candidates from the Kepler Archive Data” ApJ, 776, 10

- [205] Sanchis-Ojeda, R. (and 21 co-authors) 2013 “Kepler-63b: A Giant Planet in a Polar Orbit around a Young Sun-like Star” *ApJ* 775, 54
- [204] Meibom, S. (18 co-authors) 2013, “The same frequency of planets inside and outside open clusters of stars” *Natur* 499, 55
- [203] Crepp, J. R., Johnson, J. A., Howard, A. W., Marcy, G. W., **Fischer, D. A.**, Yantek, S. M., Wright, J. T., Isaacson, H., Feng, Y. 2013, “The TRENDS High-contrast imaging survey. II. Direct Detection of the HD 8775 Tertiary” *ApJ*, 771 46
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- [201] Mitchell, D., Reffert, S., Trifonov, T., Quirrenbach, A., **Fischer, D. A.** 2013, “Precise radial velocities of giant stars. V. A brown dwarf and a planet orbiting the K giant stars tau Geminorum and 91 Aquarii” *A&A* 555, 87
- [200] Lissauer, J. J. (16 co-authors) 2013, “All Six Planets Known to Orbit Kepler 11 have Low Densities” *ApJ*, 770, 131
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- [198] Borucki, W. J. (64 co-authors) 2013, “Kepler-62: A Five-Planet system with planets of 1.4 and 1.6 Earth radii in the Habitable Zone” *Sci*, 340, 587
- [197] Spronck, J. F. P., **Fischer, D. A.**, Kaplan, Z. A., Schwab, C., Szymkowiak, A. 2013, “Fiber Scrambling for High-Resolution Spectrographs. I. Lick Observatory” *PASP* 125, 511
- [196] Henry, G. W. (15 co-authors) 2013, “Host Star Properties and Transit Exclusion for the HD38529 Planetary System” *ApJ* 768, 155
- [195] Schwamb, M.E., Orosz, J. A., Carter, J. A., Welsh, W. F., **Fischer, D. A.** (15 co-authors) 2013, “Planet Hunters. IV. A Transiting Circumbinary Planet in a Quadruple Star System,” *ApJ* 768, 127
- [194] Barclay, T. (30 co-authors) 2013, “A Super-Earth-sized Planet Orbiting in or near the Habitable Zone of a Sun-like star” *ApJ* 768, 101
- [193] Weiss, L. M. (17 co-authors) 2013, “The Mass of KOI-94d and a Relation for planet radius, mass, and incident flux” *ApJ* 768, 14
- [192] Huber, D. (33 co-authors) 2013, “Fundamental Properties of Kepler Planet Candidate Host Stars using Asteroseismology” *ApJ* 767, 127
- [191] Chaplin, W. J. (28 co-authors) 2013, “Asteroseismic Determination of Obliquities of the Exoplanet Systems Kepler-50 and Kepler-65” *ApJ* 766, 101
- [190] Lewis, N. (21 co-authors) 2013, “Orbital Phase Variations of the Eccentric Giant Planet HAT-P-2b” *ApJ* 766, 95

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- [185] Sato, B. (22 co-authors) 2012, “HAT-P-38b: A Saturn-Mass Planet Transiting a Late G Star” *PASJ*, 64, 97
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- [179] Deheuvels, S. (26 co-authors) 2012 “Seismic Evidence for a rapidly rotating core in a lower giant branch star observed with Kepler” *ApJ* 756, 19
- [178] Howard, A. W., (60 co-authors) 2012, “Planet Occurrence within 0.25 AU of Solar-Type Stars from Kepler,” *ApJS*, 201, 15.
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