

## **Debra Fischer**

## **Curriculum Vitae, Sept 2007**

Dept Physics & Astronomy  
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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***

2008 - Associate Professor, Dept Physics and Astronomy, SFSU  
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  
1994 – 1997 Research Assistant, Department of Astrophysics  
University of California, Santa Cruz  
1995 Teaching Assistant, Department of Astrophysics  
University of California, Santa Cruz  
1990 -1992 Lecturer, Department of Physics and Astronomy  
San Francisco State University  
1986 – 1990 Teaching Assistant, Department of Physics and Astronomy  
San Francisco State University

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

2005-2006 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

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

- 2007 - 2008 Exoplanet Task Force, Advisory Committee to NSF and NASA
- 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
- 2006 - NASA Advisory Committee, astrophysics subcommittee
- 2004 - 2006 Member NOAO Telescope *Time Assignment Committee*
- 2004 - 2006 Member, NASA *Management Operations Working Group* for the IRTF and Keck
- 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

## ***Professional Invited Talks***

- 2007 Invited speaker: Nobel Symposium, Stockholm (June 17)
- 2007 Invited speaker: Vatican Observatory Summer School 2007 (Rome, Jun 15)
- 2007 Colloquium: University of Nebraska (Apr 2007)
- 2007 Colloquium: Northwestern University (Apr 2007)
- 2007 European Research Course on Atmospheres (Grenoble, 17-19 Jan)
- 2007 Sackler Lecturer, National Academy of Science (Jan 5)
- 2006 Colloquium, Sonoma State University (Oct 23)
- 2006 Colloquium, MIT (Feb 17)
- 2006 Invited talk, special session AAS (Jan 10)
- 2005 Colloquium, University of Toronto (Oct 13)
- 2005 Colloquium, Cornell Univ (Sept 22)
- 2005 Invited talk, Haute Provence Observatory (Aug 22)
- 2005 Colloquium, NASA Ames Research Center (May 18)
- 2005 Invited talk, Aspen Planet Formation (Feb 9)
- 2004 Invited Lecturer, Rhodes University, Tennessee
- 2004 Colloquium, High Altitude Observatory (Nov 10)
- 2004 Colloquium, Universidad Catholica (Oct 19) 2004 Colloquium, Caltech (Oct 13)
- 2004 Colloquium, NRAO (Sept 17)
- 2004 Invited talk, Harvard University *Disks to Planetesimals* (May)
- 2004 Invited talk, Kavli Institute Theoretical Physics (March)
- 2003 Invited Review, Univ of Maryland Astrophysics Conference (Oct)
- 2003 Keynote Address, IAU XXV General Assembly Meeting, Sydney
- 2003 Colloquium, IPAC

2003 Colloquium, University of California, Santa Cruz  
 2003 Colloquium, UCLA  
 2002 Colloquium, Rensselaer Polytechnic Institute  
 2002 Colloquium, Ohio State University  
 2002 Colloquium, Caltech  
 2002 Colloquium, Wesleyan University  
 2002 Colloquium, Harvard University  
 2002 Colloquium, University of San Diego  
 2002 Invited talk, Research in Extrasolar Planets, Carnegie Inst. D.C.

### **Public Education/Outreach**

2007 Featured in "The Universe" History Channel, broadcasting (film, Nov)  
 2007 Featured in "Seeing in the Dark" Timothy Ferris Production (film, Sept)  
 2007 Featured in "The Planet Hunters" KQED Quest (film, July)  
 2007 Guest: KQED "Forum" (Radio, Apr 30)  
 2007 Panel speaker: "Extraterrestrial Life" Philoctetes Center, NY, NY (Apr 14)  
 2007 Invited speaker: "Astrobiology and the Sacred" Univ of Arizona (Feb 14)  
 2006 Invited Lecture, Radcliffe Institute for Advanced Study (2/16/06)  
 2005 Invited public talk, Convocation Hall Univ of Toronto  
 2004 Invited talk, Amateur Astronomical Society of Northern California  
 2004 Featured in National Geographic Article (Dec)  
 2004 Invited talk, East Bay Astronomical Society, Chabot  
 2004 Featured in PBS Scientific Frontiers with Alan Alda  
 2004 Benjamin Dean Lecturer, California Academy of Science  
 2003 Featured in BBC Documentary *Planets from Hell*  
 2002 Featured in Discovery Channel Special  
 2002 Invited talk, Silicon Valley Astronomy Lecture Series  
 2002 Invited talk, SFAA at Morrison Planetarium  
 2001 Featured in NHK Japanese Public Television Documentary  
 2001 Mt Tamalpais Public Lecture  
 2001 Invited talk, Annual Meeting of the Astr Society of the Pacific  
 2001 - 2008 Lick Observatory Visitor's Night  
 2001 Featured in German Public Television Documentary  
 2001 Mercury Magazine Article on 47 UMa system  
 2000 Mercury Magazine Article: Planet Hunting

## ***University and Department Committees and Duties***

2007 – 2008	University Search Committee, for VP Office of Research and Sponsored Projects
2007 – 2008	Faculty Search committee
2006 – 2007	Faculty Search committee
2004 – 2007	Proposal reviewer for research and professional development grants
2005	Interviewer for “Study Abroad” program for OIP
2003 – present	Physics and Astronomy Colloquium Committee
2003 – present	Physics and Astronomy Computer Committee

## ***Telescope Proposals Approved in 2006-2007***

2007AB	10-m Keck telescope (6 nights)
2007AB	3-m Lick telescope (35 nights)
2007AB	6.4-m Magellan telescope (8 nights)
2006AB	10-m Keck telescope (6 nights)
2006AB	8.2-m Subaru telescope (23 nights)
2006AB	6.4-m Magellan telescope (8 nights)
2006AB	3-m Lick telescope (36 nights)

## ***Student Researchers***

- Thomas Ader, Ecole Polytechnique, Cal Tech, Multi-planet modeling of Doppler and astrometric data (2008)
- Matt Giguere, SFSU, Keplerian modeling of short period planets (2007 -)
- Howard Isaacson, SFSU, Analysis of Ca H & K in Subaru HDS Spectra (2005 - )
- Polin Yadak, SFSU, Senior project: Analysis of Vanadium and Fe II lines (2007)
- Joey Fedrow, SFSU, Spectral synthesis modeling of cool stars (2007)
- Raj Sareen, SFSU, Development of a Spectral Thermometer (2004 – 2007, **MS Thesis July 2007**)
- David Abouav, SFSU, Investigations into Improvements of Radial Velocity Analysis at Lick Observatory (2004 – 2006, **MS Thesis Dec 2006**)
- K. L. Tah, SFSU, Spectral Synthesis Modeling of K Giant Grid Stars for the Space Interferometry Mission (2003 – 2006, **MS Thesis Dec 2006**)
- Sarah Robinson, UCSC, Metallicity Indices from Low Resolution Spectra and Silicon Abundances in Planet-Bearing Stars (2006)
- David Lai, UCSC, Metal-Poor Binary Stars (2006)
- John Johnson, UC Berkeley, Synthetic Templates for Doppler Analysis (2006)
- Raman Narayan, SFSU (now Ph.D. student at Arizona State University), Multiple Keplerian Fitting (2005 – 2006, **MS Thesis Aug 2006**)
- Peter Driscoll, SFSU (now Ph. D. student at Johns Hopkins), Comparison of Frequentist and Bayesian Analysis of Keplerian Orbits (2003 – 2006, **MS Thesis Jul 2006**)
- Nassim Bozorgnia, SFSU (now Ph. D. student at UCLA), Atmospheric Signature of the Transiting Planet HD149026 (2005 – 2006, **MS Thesis May 2006**)

Tyson Mao, Cal Tech (2004, 2005) Monte Carlo simulations of planet detectability  
 Zhixia Shen, Peking University (2005) spectral synthesis modeling and relative analysis of temperature variations in time series spectra  
 Pierre Maissa, Ecole Polytechnic (2004) quantifying the response of gravity sensitive lines with spectral synthesis modeling (now Ph. D. student, engineering, Stanford University)  
 Teresa Johnson, SFSU, N2K Consortium (2004)  
 Evan Bierman, SFSU (now Ph. D. student at UC San Diego), Habitable Planets with SIM (2003)  
 Eric Nielsen, UC Berkeley (now, Ph. D. student at University of Arizona), Lithium Abundance Analysis (2002)

### **Grants (Funded)**

2008 – 2009	NSF: Mission to alpha Centauri (\$150K, PI)
2008	NASA / MSC: Keck PI Data Funds (\$25K, PI)
2008	NASA / JPL: Multi-planet Modeling (\$70K, PI)
2007 - 2008	NSF Design Study: Mission to alpha Centauri (\$85,000, PI)
2007	NASA / Michelson Science Center Keck PI Data Funds (\$33,000 / PI)
2006	Spitzer Space telescope award (\$5000 / PI)
2006 – 2008	NSF (\$570,000 / PI) Automated Planet Finder Telescope (\$580,000 / PI)
2006 – 2008	NASA Origins Detection of Rocky Planets (\$650,000 / co-I with G. Marcy)
2006	SFSU COSE Mini-grant (Summer Salary for 1 month)
2005 – 2007	Cottrell Scholar, Research Corporation Search for Hot Jupiters (39,000 / PI)
2005 – 2007	NASA Origins N2K: Detection of Short Period Planets (\$438,000 / PI)
2005 – 2006	NASA / Michelson Science Center Public Data Archive (\$10,000 / PI)
2003 – 2005	NASA / Michelson Science Center Keck PI Data Funds (\$74,000 / PI)
2003 – 2006	NASA / TPF Foundation Science Automated Planet Finder Spectrometer (\$1.8M / co-I with Steve Vogt)
2003 – 2006	NASA / JPL Space Interferometry Mission Identification of K Giant Reference Stars (\$900,000 / PI; part of key science project , PI G Marcy)

## **Refereed Journal Articles**

- [75] **Fischer, D. A.**, Johnson, J. A., Valenti, J., Wright, J. T., Marcy, G. W., Butler, R. P., Laughlin, G., McCarthy, C., Vogt, S. S., Henry, G. W., 2007. "**The N2K Consortium VIII**. Catalog of Keck Velocities and Stellar Parameters for 435 Stars." In prep ApJS
- [74] **Fischer, D.A.**, Abouav, D., Driscoll, P., McCarthy, C., Marcy, G. W., Bulter, R. P., Vogt, S. S., Ford, E. 2007 "Four new planets from Lick Observatory" in prep
- [73] Torres, G., Bakos, G., A., Kovacs, G., Latham, D. W., Fernandez, J. M., Noyes, R. W., Esquerdo, G. A., Sozzetti, A., **Fischer, D. A.**, and 7 co-authors.. "HAT-P-3B: A heavy-element rich planet transiting a Kdwarf star" ApJL accepted (arXiv0707.4268T)
- [72] Johnson, J., Butler, R. P., Marcy, G. W., **Fischer, D. A.**, Vogt, S. S., Wright, J. T., Peek, K. M. G., "A New Planet Around an M Dwarf: Revealing a correlation between Exoplanets and Stellar Mass," ApJ, accepted (arXiv0707.2409J)
- [71] **Fischer, D. A.**, Marcy, G. W., Butler, R. P., Vogt, S.S., Laughlin, G., Henry, G.W., Abouav, D. Peek, K.M.G., Wright, J. T., Johnson, J., McCarthy, C., Isaacson, H., 2007. "Five Planets Orbiting 55 Cancri" ApJ submitted
- [70] Robinson, S. E., Laughlin, G., Vogt, S. S., **Fischer, D.A.**, Butler, R. P., Marcy, G.W., Henry, G. W., Driscoll, P., Takeda, G., Johnson, J.A., 2007. "Two Jovian-Mass Planets in Earthlike Orbits" ApJ, accepted (to appear Nov 2007)
- [69] O'Toole, S. J., Butler, R. P., Tinney, C. G., Jones, H. R. A., Marcy, G. W., Carter, B., McCarthy, C., Bailey, J., Penny, A. J., Apps, K., **Fischer, D.** 2007, "New Planets Around Three G Dwarfs" ApJ 660, 1636
- [68] **Fischer, D.A.**, Marcy, G.W., Butler, R. P., Sato, B., Vogt, S.S., Robinson, S. E., Laughlin, G., Henry, G., Ida, S., Toyota, E., Omiya, M., Driscoll, P., Takeda, G., Wright, J., Johnson, J. 2007. "Five Intermediate-Period Planets from the N2K Sample" ApJ, accepted (to appear Nov 2007)
- [67] Bakos, G. A., Kovacs, G., Torres, G., **Fischer, D. A** (and 16 co-authors) HAT-P-2b: A Super-Massive Planet in an Eccentric Orbit Transiting a Bright Star" ApJ in press
- [66] Greaves, J. S., **Fischer, D. A.**, Wyatt, M. C., Beichman, C. A., Bryden, G., 2007 "Predicting the Frequencies of Diverse Exo-planetary Systems" MNRAS, 378, 1
- [65] Patel, S.G., Vogt, S.S., Marcy, G.W., Johnson, J.A., **Fischer, D.A.**, Wright, J.T., Butler, R.P., 2007, "Fourteen New Companions from the Keck and Lick Radial Velocity Survey, Including Five Brown Dwarf Candidates" ApJ, 665, 744
- [64] Johnson, J.,A., **Fischer, D.A.**, Marcy, G.W., Wright, J.T., Driscoll, P., Butler, R.P., Hekker, S., Reffert, S., Vogt, S.S., 2007 "Retired A Stars and Their Companions: Exoplanets Orbiting Three Intermediate-Mass Subgiants." ApJ, 665, 785

- [63] Robinson, S. E., Ammons, S. M., Kretke, K. A., Strader, J., Wertheimer, J. G., **Fischer, D. A.**, Laughlin, G., 2007, "The N2K Consortium VII. Atmospheric Parameters of 1907 Metal-Rich Stars: Finding Planet-Search Targets" ApJS, 169, 430
- [62] Wright, J.T., Marcy, G. W., **Fischer, D.A.**, Bulter, R. P., Vogt, S. S. Tinney, C. G. Jones, H. R. A. , Carter, B. D. Johnson, J. A. McCarthy, C., Apps K. 2007 "Four New Exoplanets, and Hints of Additional Substellar Companions to Exoplanet Host Stars," ApJ 657, 533
- [61] Takeda, G., Ford, E.B., Sills, A., Rasio, F.A., **Fischer, D.A.**, Valenti, J.A. 2007 "Structure and Evolution of Nearby Stars with Planets. II. Physical Properties of ~1000 Stars in the SPOCS Catalog." ApJS, 168, 297
- [60] Bakos, G. Á., Noyes, R. W., Kovács, G., Latham, D. W., Sasselov, D. D., Torres, G., **Fischer, D. A.**, (and 12 co-authors), 2007. "HAT-P-1b: A Large-Radius, Low-Density Exoplanet Transiting One Member of a Binary Star System" ApJ 656, 552
- [59] Butler, R. P., Johnson, J. A., Marcy, G.W., Wright, J. T., Vogt, S.S., **Fischer, D. A.**, 2006. "A Long-Period Jupiter-Mass Planet Orbiting the Nearby M Dwarf GJ849" PASP, 118, 1685
- [58] Johnson, J.A., Marcy, G.W., **Fischer, D.A.**, Henry, G.W., Wright, J.T., Isaacson, H., McCarthy, C. 2006. "An Eccentric Hot Jupiter Orbiting the Subgiant HD 185269" ApJ, 652, 1742
- [57] Beichman, C. Bryden, G., Stapelfeldt, K. R., Gautier, T. N., Grogan, K., Shao, M., Velusamy, T., Lawler, S. M., Blaylock, M., Rieke, G. H., Lunine, J. I., **Fischer, D. A.**, Marcy, G. W., Greaves, J. S., Wyatt, M. C., Holland, W. S., Dent, W. R. F., 2006, "New Debris Disks Around Nearby Main-Sequence Stars: Impact on the Direct Detection of Planets." ApJ 652, 1674.
- [56] Reffert, S., Quirrenbach, A., Mitchell, D.S., Albrecht, S., Hekker, S., **Fischer, D.A.**, Marcy, G.W., Butler, R. P., 2006. "Precise Radial Velocities of Giant Stars. II. Pollux and Its Planetary Companion." ApJ 652, 661
- [55] Bozorgnia, N., Fortney, J., McCarthy, C., **Fischer, D. A.**, Marcy, G., 2006 "Search for an Atmospheric Signature in the Transiting Planet HD149026" PASP, 118, 1252
- [54] Johnson, J. A., Marcy, G. W., **Fischer, D. A.**, Laughlin, G., Butler, R. P., Henry, G. W., Valenti, J. A., Ford, E., Vogt, S. S., Wright, J. T., 2006., "**The N2K Consortium VI.** Doppler Shifts Without Templates and Three New Short-Period Planets} ApJ, 647, 600
- [53] Butler, R. P., Wright, J. T., Marcy, G. W., **Fischer, D. A.** Vogt, S. S., Tinney, C. G., Jones, H.R.A., Carter, B. D., Johnson, J. A., McCarthy, C., Munoz, M., Penny, A. J. 2006, "Catalog of Nearby Exoplanets" ApJ, 646, 505
- [52] Robinson, S. E., Laughlin, G., Bodenheimer, P., **Fischer, D.**, 2006, "Silicon Enrichment in Planet-Host Stars: Observations and Implications for the Core-Accretion Theory of Planet Formation." ApJ, 643, 484

- [51] Hekker, S., Reffert, S., Quirrenbach, A., Mitchell, D. S., **Fischer, D. A.**, Marcy, G. W., Butler, R. P., 2006, "Precise Radial Velocities of Giant Stars. I. Stable Stars" *A&A*, 454, 943
- [50] Greaves, J., **Fischer, D.**, Wyatt, M., 2006, "Metallicity, Debris Disks and Planets" *MNRAS*, 366, 283
- [49] Lee, M.H., Butler, R. P., **Fischer, D., A.**, Marcy, G. W., Vogt, S. S. 2006. "On the 2:1 Orbital Resonance in the HD 82943 Planetary System."
- [48] Robinson, S. E., Strader, J., Ammons, S. M., Laughlin, G., Fischer, D., 2006, "**The N2K Consortium. V.** Identifying Very Metal-rich Stars with Low-Resolution Spectra: Finding Planet-Search Targets" *ApJ*, 637, 1102
- [47] Ammons, M., Robinson, S. E., Strader, J., Laughlin, G., **Fischer, D. A.**, Wolf, A. 2006. "**The N2K Consortium. IV.** New Temperatures and Metallicities for 100,000+ FGK Dwarfs" *ApJ*, 638, 1004
- [46] **Fischer, D. A.**, Laughlin, G., Marcy, G. W., Butler, R. P., Vogt, S. S., Johnson, J., Henry, G., McCarthy, C., Ammons, M., Robinson, S. E., Strader, J., Valenti, J. A., McCullough, P., Charbonneau, D., Haislip, J., Knutson, H. A., Reichart, D. E., McGee, P., Monard, B., Wright, J., Ida, S., Sato, B., Minniti, D., 2006. "**The N2K Consortium. Paper III.** Short-Period Planets Orbiting HD~149143 and HD~109749" *ApJ*, 637, 1094
- [45] Rivera, E. J., Lissauer, J. J., Butler, R. P., Marcy, G. W., Vogt, S. S., **Fischer, D. A.**, Brown, T. M., Laughlin, G., Henry, G. W. 2005, "A 7.5  $M_{\text{EARTH}}$  Planet Orbiting the Nearby Star, GJ876" *ApJ*, 634, 625
- [44] Sato, B. **Fischer, D. A.**, Henry, G. Laughlin, G., Butler, R. P., Marcy, G. W., Vogt, S. S., Johnson, Bodenheimer, P., Ida, S., Toyota, E., Wolf, A., J., Valenti, J., Boyd, L., Johnson, J., Wright, J., Ammons, M., Robinson, S. E., Strader, J., McCarthy, C., Tah, K. L., Minniti, D., 2005. "**The N2K Consortium. II.** A Transiting Hot Saturn Around HD149026 with a Large Dense Core." *ApJ*, 632, 1102
- [43] **Fischer, D. A.**, Valenti, J. 2005 "Planet-Metallicity correlation: Spectral Synthesis Modeling of 1040 Stars." *ApJ*, 632.1102
- [42] Valenti, J, **Fischer, D.A.**, 2005 "Spectroscopic Properties of Cool Stars. SPOCS I", *ApJS*, 159, 141
- [41] Vogt, S. S., Butler, R. P., Marcy, G. W., **Fischer, D. A.**, Henry, G., W., Laughlin, G., Wright, J. T., Johnson, J. 2005. "Five New Multicomponent Planetary Systems" *ApJ* 632, 638
- [40] Laughlin, G., Wolf, A., Venmunster, T., Bodenheimer, P., **Fischer, D.**, Marcy, G. W., Butler, R. P., Vogt, S. S. 2005. "A Comparison of Observationally Determined Radii with Theoretical Radius Predictions for Short-Period Transiting Extrasolar Planets" *ApJ*, 621, 1072



- [39] **Fischer, D. A.**, Laughlin, G., Butler, R. P., Marcy, G. W., Johnson, J., Henry, G., Valenti, J., Vogt, S. S., Ammons, M., Robinson, S. E., Spear, G., Strader, J., Driscoll, P., Fuller, A., Johnson, T., Manrao, E., McCarthy, C., Munoz, M., Tah, K. L., Wright, J., Ida, S., Sato, B., Toyota, E., Minniti, D., 2004. "**The N2K Consortium. I.** A Hot Saturn Planet Orbiting HD 88133, from the N2K Consortium." ApJ, 620, 481
- [38] Marcy, G. W., Butler, R. P., Vogt, S.S., **Fischer, D. A.**, Henry, G. W., Laughlin, G., Wright, J. T., Johnson, J. 2005. "Five New Extrasolar Planets" ApJ, 619, 570
- [37] Butler, R. P., Vogt, S. S., Marcy, G. W., **Fischer, D. A.**, Wright, J. T., Henry, G. W., Laughlin, G., Lissauer, J. J. 2004 "A Neptune-Mass Planet Around the Nearby M Dwarf GJ 436" ApJ, 617, 580
- [36] McCarthy, Chris, Butler, R. P., Tinney, C. G., Jones, H. R. A., Marcy, G. W., Carter, B., Penny, A., **Fischer, D. A.** 2004 "Multiple Companions to HD 154857 and HD 160691" ApJ, 617, 575
- [35] **Fischer, D. A.**, Butler, R. P., Marcy, G. W., Vogt, S. S., Henry, G. W. 2003, "A Sub-Saturn Mass Planet Orbiting HD 3651" ApJ 590, 1081
- [34] **Fischer, D. A.**, Marcy, G. W., Butler, R. P., Vogt, S. S., Henry, G.W., Pourbaix, D., Walp, B., Misch, A. A., Wright, J. T. 2003, "A Planetary Companion to HD 40979 and Additional Planets Orbiting HD 12661 and HD 38529" ApJ, 586, 1394
- [33] Butler, R. P., Marcy, G. W., Vogt, S. S., **Fischer, D. A.**, Henry, G.W., Laughlin, G. P., Wright, J. T. 2003 "Seven New Keck Planets Orbiting G & K Dwarfs", ApJ, 582, 455.
- [32] Schuler, S., C., King, J. R., **Fischer, D. A.**, Soderblom, D. R., Jones, B. F. 2003. "Spectroscopic Abundances of Solar-Type Dwarfs in the Open Cluster M34 (NGC 1039)" AJ 125, 2085.
- [31] Carter, B. D., Butler, R. P., Tinney, C. G., Jones, R. A., Marcy, G. W., McCarthy, C. **Fischer, D. A.**, Penny, A. J. 2003. "A Planet in a Circular Orbit with a 6 Year Period," ApJL 593, 43.
- [30] Kjeldsen, H., Bedding, T. R., Baldry, I. K., Bruntt, H., Butler, R. P., **Fischer, D. A.**, Frandsen, S., Gates, E. L., Grundahl, F., Lang, K., Marcy, G. W., Misch, A., Vogt, S. S. 2003. "Confirmation of Solar-like Oscillations in eta Bootis" AJ, 126, 1483
- [29] Gould, A. Ford, E. B., **Fischer, D. A.** 2003 "Early-Type Stars: Most Favorable Targets for Astrometrically detectable Planets in the Habitable Zone." ApJL 591, 155
- [28] **Fischer, D. A.** 2003 "Big Planets with Small Telescopes" in The Future of Small Telescopes in the New Millennium. Vol III – Science in the Shadows of Giants. Ed T.D. Oswalt. Astrophysics and Space Science Library, Vol 289 Kluwer Academic Publ, Dordrecht, 2003, p 189.
- [27] Marcy, G. W., Butler, R. P., **Fischer, D. A.**, Laughlin, G. P., Vogt, S. S., Henry, G. W., Pourbaix, D. 2002, "A Planet at 5 AU Around 55 Cancri", ApJ, 581, 1375

- [26] **Fischer, D. A.**, Marcy, G. W., Butler, R. P., Vogt, S. S., Walp, B., Apps, K. 2002, "Planetary Companions to HD 136118, HD 50554 and HD106252" *PASP*, 114, 529
- [25] Frink, S., Quirrenbach, A., Mitchell, D., **Fischer, D. A.**, Marcy, G. W., Butler, R. P., 2002, "Discovery of a Substellar Companion to the Ke III Giant Iota Draconis" *ApJ*, 576, 478
- [24] Laughlin, G. P., Chambers, J., **Fischer, D.** 2002, "A Dynamical Analysis of the 47 UMa Planetary System" *ApJ* 579, 455
- [23] **Fischer, D. A.**, Marcy, G. W., Butler, R. P., Laughlin, G. P., Vogt, S. S. 2002, "A Second Planet Orbiting 47 UMa" *ApJ* 564, 1028
- [22] Chiang, E. I., **Fischer, D.**, Thommes, E. 2002, "Excitation of Orbital Eccentricities of Extrasolar Planets by Repeated Resonance Crossings" *ApJL*, 564, 105
- [21] Liu, M. C., **Fischer, D. A.**, Graham, J. R., Lloyd, J. P., Marcy, G. W., Butler, R. P. 2002, "Crossing the Brown Dwarf Desert Using Adaptive Optics: A Very Close L Dwarf Companion to the Nearby Solar Analog HR 7672." *ApJ*, 571, 519
- [20] Nidever, D. L., Marcy, G. W., Butler, R. P., **Fischer, D. A.**, Vogt, S. S., 2002, "Radial Velocities for 889 Late-type Stars", *ApJS*, 141, 503
- [19] Vogt, S. S., Butler, R. P., Marcy, G. W., **Fischer, D. A.**, Pourbaix, D., Apps, K., Laughlin, G. 2002, "Ten Low-Mass Companions from the Keck Precision Velocity Survey" *ApJ* 568, 352
- [18] Soderblom, D. R., Jones, B. F., **Fischer, D. A.**, 2001 "Rotational Studies of Late-Type Stars. VII. M34 (NGC 1039) and the Evolution of Angular Momentum and Activity in Young Solar-Type Stars" *ApJ* 563, 334
- [17] Marcy, G. W., Butler, R. P., **Fischer, D. A.**, Vogt, S. S., Lissauer, J. J., Rivera E. J., 2001, "A Pair of Resonant Planets Orbiting GJ 876", *ApJ* 556, 29
- [16] **Fischer, D. A.**, Marcy, G. W., Butler, R. P., Vogt, S. S., Frink, S. Apps, K. 2001, "Planetary Companions to HD 12661, HD 92788, HD 38529 and Variations in Keplerian Residuals of Extrasolar Planets" *ApJ* 551, 1107
- [15] Frink, S., Quirrenbach, A., **Fischer, D.**, Röser, S., Schilbach, E. 2001, "A Strategy for Identifying the Grid Stars for the Space Interferometry Mission" *PASP*, 113, 173
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