

Daniel C. Fabrycky
Curriculum Vitae

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Dept. of Astronomy & Astrophysics
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Education

2003-2007 Astrophysics PhD at Princeton University
(dissertation advisor: Prof. Scott Tremaine)
1999-2003 Physics BS with honor at California Institute of Technology

Current Position and Institution

2017- Associate Professor, University of Chicago, Department of
Astronomy & Astrophysics
2012-2017 Assistant Professor, University of Chicago

Research Positions

2010-2012 Hubble Postdoctoral Fellow, Univ. of California Santa Cruz, CA
2007-2010 Michelson Postdoctoral Fellow, Harvard University, MA
2009-2010 Lecturer, Harvard University, Cambridge, MA

Honors

2017 Inaugural Vera Rubin Early Career Prize from the Division on Dynamical
Astronomy of the American Astronomical Society
2014 Sloan Research Fellowship
2012 Kavli Frontier Fellow
2010 Hubble Postdoctoral Fellowship
2007 Michelson Postdoctoral Fellowship

Teaching Experience

2020 fall ASTR 30100 – Stars (graduate students)
2020 spring BPRO 27800 – Science and Christianity (undergrad Big Problems)
2016-19 fall PHSC 12700 – Stars (undergraduate large lecture)
2019 winter ASTR 46100 – Dynamics of Exoplanets
2018 spring ASTR 25800 – Extrasolar Planets (undergraduate level)
2017 spring ASTR 28200 – Special Topics: Gravitational Microlensing
(undergraduate level)
2016 spring ASTR 35800 / GEOS 32080 – Extrasolar Planets (graduate level)
ASTR 28200 – Special Topics: Exoplanets (undergraduate level)
2015 fall PHSC 12700 – Stars (Laboratory design and oversee)
2015 spring ASTR 31600 – Physics of Particles (graduate level)
2014 fall ASTR 49900 – Graduate Seminar: Paradigm-Defining
Measurements in Astrophysics
2014 winter ASTR 34000 – Statistical Methods for Astronomy &

Astrophysics (graduate level)

2013 fall ASTR 35800 – Extrasolar Planets (graduate level)
2006 Teaching Assistant: Princeton AST 203, introductory astronomy
2003-2006 Princeton AST 541/542, astronomy seminar presentations
2003-2007 Public Observing sessions, head host in 2006/2007

Research Advised

postdoc

2017-2019 David Martin (University of Chicago, Swiss National Fellow)
2013-2015 Aaron Geller (Northwestern & U of C NSF Fellow)
2012-2014 Gwenael Boué (University of Chicago Postdoctoral Fellow)

graduate thesis students

2017- Nora Bailey (University of Chicago)
2014- Gregory Gilbert (University of Chicago)
2012-2017 Sean Mills (University of Chicago)

graduate project students

2020 Fei Xu (University of Chicago, quarter project)
2018-2019 Aaron Hamann (University of Chicago, two-quarter + summer)
2014-2015 Mengxiang Lin (University of Chicago, two-quarter project)
2014 Jason Poh (University of Chicago, quarter project)
2009-2010 Rebekah Dawson (Harvard, summer and first year)

masters

2014 Misaki Nabeshima (University of Chicago master's thesis)

undergraduate

2020-2021 Devin Hooveer (U of C, Greg Gilbert main supervisor)
2020-2021 Jared Siegel (U of C quarter, summer)
2020-2021 Aldo Panfichi (U of C, post-bacc)
2018 Christa Christ (U of C, Benjamin Montet main supervisor)
2017 Enid Cruz-Colon (University of Puerto Rico, REU summer)
2017 Max Goldberg (U of C quarter, summer)
2017 Katya Gozman (U of C quarter)
2016 William Petterson (U of C quarter and summer)
2016 Morgan Wintersmith (U of C quarter and summer)
2016-2017 Kathryn Chapman (U of C year, two summers, and senior thesis)
2015 Ayanna Jones (Clark-Atlanta University, for U of C summer)
2015 Steven Giacalone (U of C quarter and summer)
2014 Hannah Diamond-Lowe (U of C summer)
2014 Adam Sutherland (U of C spring quarter and summer)
2014 Ningfeng Zhu (U of C, winter quarter)
2013-2014 Taweewat Somboonpanyakul (U of C quarter & Selove Fellowship for summer research)
2011 Reid Sherman (UCSC undergraduate thesis)
2009 Duncan Watts (Harvard undergrad, semester and summer research)
2008 Jasmeen Kanwal (Oxford undergrad, summer research)

Astronomy community service

- 2017 Exoplanets Review, DFG, Berlin
- 2015 Siemens Competition National Judge
- 2007-2020 Referee (A&A, ApJ, MNRAS, Nature, PASJ, PASP, Science, PNAS, Amer. Phil. Soc.)
- 2010 NASA review
- 2009, 2011 NSF review panel

Committee Work (* denotes chair)

- Departmental:
 - 2020-2021 Staffing Committee
 - 2019-2020 Curriculum Committee
 - 2016-2018 Undergraduate Committee*
 - 2016-2018 Diversity Committee
 - 2015-2018 Candidacy Committee
 - 2015-2016 Colloquium Committee
 - 2012-2013 Graduate Admissions
 - 2013-2014 Graduate Admissions*
 - 2015-2016 Graduate Admissions
- External:
 - 2019-2020 Board of the University of Chicago Press
 - 2015-2018 Board of the Library
 - 2014-2016 Adler Planetarium Visiting Committee

Seminar Series Organized

- 2020 Origin of Life (co-organized in Physical Sciences Division)
- 2015-17,19-20 Astro Tuesday (with Hsiao-Wen Chen and others)
- 2014 Astronomy & Astrophysics Colloquia
- 2012-13 Exoplanet Reading Group, University of Chicago
- 2010 ITC Seminar Series: Formation and Evolution of Planets
 - co-organized with Ruth Murray-Clay and Hagai Perets
- 2009 Extrasolar Planets Lunch, at Harvard-Smithsonian CfA
 - co-organized with Jessie Christiansen
- 2008 ITC Forum, at Harvard-Smithsonian CfA
- 2004 Thunch, at Princeton University Astrophysics

Scientific Organizing Committees

- 2018 Triple Evolution and Dynamics II – Lorenz Center, Leiden, the Netherlands
- 2016 Fourth Annual GMT Community Science Meeting: Exoplanets in the Era of Extremely Large Telescopes, Pacific Grove, CA
- 2015 OHP 2015: Twenty years of giant exoplanets, Saint-Michel-l'Observatoire, France

Invited Conference Talks

- PLATO Extrasolar Planets 2020, online. *Architecture of multiplanetary systems:*

our view after Kepler and before PLATO

Big Data – Small Planets, 2019, Jerusalem, *Unlocking the Interpretation of Transiting Multiplanet Systems using High Impact Parameters*

Dynamical Division of Astronomy 2018, San Jose, *Vera Rubin Prize Lecture: The Realm of Close-in Planets*

Sagan Workshop: Did I really just find an exoplanet? 2018, Caltech campus. *Transit Timing Variations: Validation and Characterization*

Franco-Australian Astrobiology and Exoplanet School and Workshop, 2017, Canberra, *Tides on Exoplanets Inferred by Resonant Chain Architectures*

Kavli ExoFrontiers 2016 Symposium, Sept. 5-6, 2016, Cambridge UK. *Orbital Architectures and Dynamics of Exoplanetary Systems*

Exoplanets I, Davos Switzerland, July 4-8, 2016, *Low-mass Planets Probed by Transit-Timing Variations*

Triple Dynamics and Evolution in stellar and planetary systems, Technion, Haifa, Israel, May 31-June 5, 2015, *Finding and Destabilizing Circumbinary Planets*

Bay Area Exoplanet Science Meeting, Mountain View, CA, March 20 2015, *Results from Kepler transit timing; and now what?*

KITP Conference: Physics of Exoplanets: From Earth-Sized to Mini-Neptunes, UC Santa Barbara, Feb. 23-27 2015, *Small-Planet Densities and System Architectures through Photodynamic Variations*

Evolving Universe, KITP Short Course for Museum and Planetarium Staff, University of Chicago, Sept. 21-23, 2014, *Exoplanets in Motion*

Exoplanetary Science. Rencontres du Vietnam, Quy Nhon, April 20-26, 2014, *Modeling and Observing Kepler Planetary Systems with Large TTVs*

NASA Space Grant Symposium, Arlington VA, Feb. 27-28, 2014. *New Views of Exoplanets from NASA's Kepler mission*

Exoplanets and Binaries: the CoRoT and Kepler Missions, Results and Future Challenges, Tel Aviv Israel, December 17-20, 2012, *Multitransiting Planet Systems from Kepler*

Kavli Frontiers of Science (24th annual), November 2-4, 2012, Irvine, CA, *Is the Solar System Rare?*

The First Kepler Science Conference, December 5-9, 2011, NASA Ames, *Detailed Dynamical Portraits of Other Planetary Systems*

The Future of Astronomy: Fellows at the Frontiers of Science, August 31-September 3, 2011, Northwestern University *Planetary Systems from Kepler*

IAU Symposium 276, October 11-15, 2010, Torino, Italy *Tidal Dynamics of Transiting Exoplanets, The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution, Proceedings of the International Astronomical Union, IAU Symposium, Volume 276, p. 252-257*

Detection and Dynamics of Transiting Exoplanets, August 23-27, 2010, Observatoire de Haute Provence, France *Transit Timing: Detections and Interpretation*

European Science Foundation Conference 314- Putting our Solar System in Context: Origin, Dynamical, and Physical Evolution of Multiple Planet Systems, April 25-30, 2010, Universitätszentrum Obergurgl, Austria
Tidal Migration and Dynamics in Multiple-Planet Systems

Conference Talks

- Extreme Solar Systems III, Reykjavik, Iceland, August 19-23, 2019, *Unlocking the Interpretation of Transiting Multiplanet Systems using High Impact Parameters*. **D.C. Fabrycky**, G. Gilbert, A. Hamann, B. Montet, E. Agol, E. Kruse
- Bay Area Exoplanets Meeting, 2019, *Far-out Exoplanets: Two ideas in Planet-Planet Scattering*
- John Papaloizou Honorary Conference, Oxford, England, 2018. *Planet-Planet Scattering: External Companions and Puffy Systems of Small Planets*
- Exoplanets 2, Cambridge, England, 2018. *Orbital Dynamics – Resonant Chains and External Companions*
- Kepler/K2 Science Conference IV, NASA Ames Research Center, June 19-23, *Differing Tidal Dissipation in exo-Earths, Super-Earths, and Sub-Neptunes from Resonant Chains of Planets*. **D. Fabrycky**, K. Chapman, S. Mills, et al.
- Exoplanets in Multi-body Systems in the Kepler Era, Aspen Center for Physics, February 9-15, 2013, *Kepler's Loose Teeth: a Duration Drift Survey (DDS) to Find Mutually-Inclined Companions*, **D.Fabrycky**, S. Mills, and the *Kepler* team
- Dynamical Division of Astronomy, May 7-10, 2012
Architecture and Dynamics of Kepler's Multi-transiting Planetary Systems
D.C. Fabrycky; *Kepler* team
- Extreme Solar Systems II, Sept. 10-17, 2011
KOI-730 as a System of Four Planets in a Chain of Resonances.
D.C. Fabrycky; *Kepler* team
- AAS Meeting 218
Dynamical Fits to Transit Times of Kepler's Multiply-transiting Planetary Systems.
D.C. Fabrycky; *Kepler* team, 2010, AAS, 218, 203, 5
- AAS Meeting 215
Exoplanetary Spin-Orbit Misalignment, and a Secular Resonance Encountered During Hot Jupiter Migration.
D.C. Fabrycky 2010, AAS, 215, 367, 8
- Division of Planetary Sciences, AAS, 40
Mutual Events of 2003 EL61 and its Inner Satellite.
D.C. Fabrycky, M.J. Holman, D. Ragozzine, M.E. Brown, T.A. Lister, D.M. Terndrup, J. Djordjevic, E.F. Young, L.A. Young, R.R. Howell
2008, DPS, 40, 36, 8
- IAU Symposium 253: Transiting Planets
What to Expect from Transiting Multiplanet Systems.
D. C. Fabrycky 2008, IAUS, 253, 173, arxiv:0806.4314

Dynamical Division of Astronomy, AAS, 39
Tidal Dynamics of Transiting Extrasolar Planetary Systems.
D. C. Fabrycky 2008, DDA, 39, 607

Invited Colloquia and Seminars

2021 Oxford University, Astronomy Colloquium
2019 Wiezmann Institute, Astronomy Seminar
2019 Hebrew University, Astronomy Seminar
2019 Harvard Smithsonian Center for Astrophysics Colloquium
2018 Indiana University, Astronomy Colloquium
2018 Institute for Advanced Studies, Princeton, seminar
2017 Monash University, astronomy seminar
2017 University of New South Wales, Astronomy seminar
2017 University of Sydney, Physics colloquium
2017 Stanford University KIPAC colloquium
2017 University of California Santa Cruz, OWL summer seminar
2017 University of Geneva, Astronomy Seminar
2017 University of Bern, Astrophysics Seminar
2017 Indiana University, Astronomy Department Colloquium
2016 Oxford University, Astronomy Seminar
2016 SETI, Mountainview, CA, Seminar
2016 University of Toronto Scarborough, Center for Planetary Science
2015 University of Chicago, Astronomy
2015 KITP Blackboard talk
2015 San Diego State University Colloquium
2015 University of California San Diego Colloquium
2015 National Astronomical Observatories of China Seminar
2015 Kavli Institute for A&A (Peking University, China)
2014 UChicago Computational Seminar (EFI)
2014 University of Texas, Austin Colloquium
2014 Ohio State University Colloquium
2014 Observatoire de Paris, Institut de Mécanique Céleste CE Seminar
2014 University of California, Berkeley, CA, Astronomy Colloquium
2014 University of Minnesota, St. Paul, IL, Physics Colloquium
2013 Northwestern University, Evanston, IL, Astronomy Seminar
2013 University of Notre Dame, South Bend, IN, Astrophysics Seminar
2012 Argonne National Labs, Physics Colloquium
2012 Caltech, Astronomy Colloquium
2012 University of Wisconsin-Madison, Astronomy Colloquium
2012 Sagan Workshop on Transits, hosted by Caltech, Lecture & hands-on coding session on transit timing variations
2012 University of Washington, Seattle WA, Astronomy Colloquium
2012 University of Zurich, Zurich, Switzerland, Physics Colloquium
2012 Hubble Symposium, STSCI, Baltimore MD
2011 Harvard-Smithsonian Center for Astrophysics, Colloquium
2011 Jet Propulsion Laboratory, Los Angeles, Exoplanet Colloquium

2011 CITA, University of Toronto, CITA Colloquium
 2011 University of Utah, Astronomy Seminar
 2011 Univ. California, Los Angeles, Astronomy Colloquium
 2011 Lawrence Livermore National Labs, Physics/IGPP Seminar
 2011 Univ. California, Berkeley, Theoretical Astrophysics Colloquium
 2011 Cornell, Special Colloquium & Planetary Lunch talk
 2011 Hubble Symposium, hosted by Caltech
 2011 University of Chicago, Astronomy/Geosciences joint Colloquium
 2011 Southwest Research Institute, Boulder CO, Colloquium
 2011 Caltech, NExSci Seminar
 2011 Institute for Advanced Study, Princeton NJ, Astrophysics Seminar
 2011 Columbia University, Astrophysics Colloquium
 2011 University of California Santa Cruz, Astrophysics Colloquium
 2010 Northwestern University, Astrophysics Seminar
 2010 University of Arizona, Theoretical Astrophysics Colloquium
 2010 Geneva Observatory, Switzerland, Seminar
 2010 Kavli Institute for Theo. Physics, Exoplanets Program
 2010 SUNY / Stony Brook, Astronomy and Geophysics Colloquium
 2009 Sagan/Michelson Symposium, hosted by Caltech
 2009 University of Florida, Astronomy Coll. & Astrostatistics Sem.
 2009 University of California, Santa Cruz, CODEP Planetary lunch
 2008 CITA, University of Toronto, CITA Colloquium
 2008 NASA Ames, ACES seminar
 2008 University of California, Berkeley, Theory Seminar
 2007 Ohio State University, Astronomy Department Colloquium
 2007 Harvard-Smithsonian CfA, PEOPLES postdoc lecture series
 2006 Harvard-Smithsonian CfA, ITC seminar

Conference Posters

Exoplanets 3, Online, 2020. *An information theoretic framework for classifying planetary system architectures*
 Division of Planetary Sciences, AAS, 39
Radiative Thrusters on Close-in Extrasolar Planets.
D. C. Fabrycky 2008, DDA, 39, 1509
 International Astronomical Union XXVI
The Population of Close Binaries Dynamically Formed in Hierarchical Triple Systems, with Application to Extrasolar Planets.
D. C. Fabrycky 2006, IAU Symposium 240, 166
 American Astronomical Society
Wavefront Estimation with an Imaging Spectrograph.
D. C. Fabrycky & D. N. Spergel 2005, AAS, 207, 118.01
 American Astronomical Society
Rapid Multiperiodic Variability in an SMC High-Mass X-ray Binary.
D. C. Fabrycky 2004, AAS, 205

Outreach / Public Talks

- 2020 *Manifestations of Migration: Resonant Chains and Circumbinary Planets*, Ryerson Astronomical Society
- 2014-2019 Astronomy Conversations at Adler Planetarium (approx. monthly)
- 2017 *Bumpy Rides in the Early Lives of Planetary Systems*. San Mateo County Astronomical Society
- 2016 *Kepler's Other Planetary Systems*. Chicago Astronomical Society
- 2016 *Is there a Ninth Planet in the Solar System?* Ryerson Astronomical Society
- 2015 *Planets Orbiting Other Suns*. Sulzer Regional Library, Chicago, IL
- 2014 *The Chaotic Migration of Planets*. Joliet Junior College Colloquium
- 2014 *Modeling and Observing Kepler Planetary Systems with Large TTVs*. Ryerson Astronomical Society, U of C undergrads.
- 2014 *New Views of Exoplanets from Kepler*. Renaissance Court, Chicago, IL
- 2014 *New Views of Exoplanets from NASA's Kepler mission*. US Space Grant conference, Alexandria, VA
- 2013 *Planets in Binary Stars*. Ryerson Astronomical Society, U of C undergrads
- 2006 *Resonances in Planetary Systems*. Princeton Uni. Summer lecture series

Bibliography

- Refining the Transit-Timing and Photometric Analysis of TRAPPIST-1: Masses, Radii, Densities, Dynamics, and Ephemerides*. E. Agol et al. [34 coauthors including **D. Fabrycky**], *The Planetary Science Journal*, 2021, 2, 1
- The Origin of Systems of Tightly Packed Inner Planets with Misaligned, Ultra-short-period Companions*. J. Becker, K. Batygin, **D. Fabrycky**, F.C. Adams, G. Li, A. Vanderburg, J.E. Rodriguez, 2020, *AJ*, 160, 254
- Multiple Transits during a Single Conjunction: Identifying Transiting Circumbinary Planetary Candidates from TESS*. V.B. Kostov et al. [12 coauthors including **D.C. Fabrycky**], 2020, *AJ*, 160, 174
- The EBLM project – VII. Spin-Orbit alignment for the circumbinary planet host EBLM J0608-59 A / TOI-1338 A*. V. Konovac Hdozic, A.H.M.J. Triaud, D.V. Martin, **D.C. Fabrycky**, and 13 coauthors., 2020, *MNRAS*, 497, 1627
- An Information Theoretic Framework for Classifying Exoplanetary System Architectures*. G.J. Gilbert, D.C. Fabrycky 2020, *AJ*, 159, 6, 281
- TOI-1338: TESS' First Transiting Circumbinary Planet*, V.B. Kostov et al. [67 coauthors including **D.C. Fabrycky**], 2020, *AJ*, 159, 253
- Discovery of the Long-Period, Eccentric Planet Kepler-88 d and System Characterization with Radial Velocities and Photodynamic Analysis*. L.M. Weiss, **D.C. Fabrycky**, and 8 coauthors, *AJ*, 159, 242
- Nodal Precession in Closely Spaced Planet Pairs*. N. Bailey, **D. Fabrycky** 2020, *AJ*, 159, 5, 217
- The Featureless Transmission Spectra of Two Super-puff Planets*. J.E. Libby-Roberts et al. [11 coauthors including **D. Fabrycky**], 2020, *AJ*, 159, 57

- K2-146: Discovery of Planet c, Precise Masses from Transit Timing, and Observed Precession.* A. Hamann, B.T. Montet, **D.C. Fabrycky**, E. Agol, E. Kruse 2019, AJ, 158, 133
- Stellar Flybys Interrupting Planet-Planet Scattering Generates Oort Planets.* N. Bailey, **D. Fabrycky** 2019, AJ, 158, 94
- Distinguishing Polar and Coplanar Circumbinary Exoplanets by Eclipse Timing Variations.* Z. Zhang and **D.C. Fabrycky**, 2019, ApJ, 879, 92
- The Gemini Planet Imager Exoplanet Survey: Giant Planet and Brown Dwarf Demographics from 10 to 100 au.* E.L. Nielsen et al. [65 coauthors including **D.C. Fabrycky**] 2019, AJ, 158, 13
- Observations of the Kepler Field with TESS: Predictions for Planet Yield and Observable Features.* C.N. Christ, B.T. Montet, **D.C. Fabrycky** 2019, AJ, 157, 235
- Discovery of a Third Transiting Planet in the Kepler-47 Circumbinary System.* J.A. Orosz et al. [18 coauthors including **D.C. Fabrycky**] 2019, ApJ, 157, 174
- Transits of Inclined Exomoons – Hide and Seek and an Application to Kepler-1625.* D.V. Martin, **D.C. Fabrycky**, B.T. Montet 2019, ApJ, 875, 25
- Dynamical Constraints on the HR 8799 Planets with GPI.* J.J. Wang, J.R. Graham, R. Dawson, **D. Fabrycky**, and 51 coauthors, 2018, AJ, 156, 192
- Kepler Object of Interest Network. I. First results combining ground- and space-based observations of Kepler systems with transit timing variations.* C. von Essen et al. [37 coauthors including **D.C. Fabrycky**] 2018, A&A, 615, 79
- The nature of the TRAPPIST-1 exoplanets.* S.L. Grimm et al. [25 coauthors including **D. Fabrycky**] 2018, A&A, 613, 68
- Transit Timing and Duration Variations for the Discovery and Characterization of Exoplanets.* E. Agol & **D. Fabrycky** 2018, Encyclopedia of Exoplanets, Springer International Publishing AG, part of Springer Nature, J.A. Belemonte, H. Deeg, Eds.
- Evidence that the Directly-Imaged Planet HD 131399 Ab is a Background Star.* E.L. Nielsen et al. [57 coauthors including **D.C. Fabrycky**] 2017 AJ, 154, 218
- A Seven-planet Resonant Chain in TRAPPIST-1.* R. Luger et al. [31 coauthors including **D.C. Fabrycky**], 2017, Nature Astronomy, 1E, 129
- Outer Architecture of Kepler-11: Constraints from Coplanarity.* D. Jontof-Hutter, B.P. Weaver, E.B. Ford, J.J. Lissauer, & **D.C. Fabrycky** 2017, AJ, 153, 227
- Kepler-11 is a Solar Twin: Revising the Masses and Radii of Benchmark Planets Via Precise Stellar Characterization.* M. Bedell et al. [9 coauthors including **D.C. Fabrycky**], 2017, ApJ, 839, 94
- Mass, Density, and Formation Constraints in the Compact, Sub-Earth Kepler-444 System including Two Mars-mass Planets.* S.M. Mills & **D.C. Fabrycky** 2017, ApJL, 838, 11
- Kepler-108: A Mutually Inclined Giant Planet System.* S.M. Mills & **D.C. Fabrycky** 2017, AJ, 153, 45

Outer-planet scattering can gently tilt an inner planetary system. P. Gratia & **D. Fabrycky** 2017, MNRAS, 464, 1709

The Short Rotation Period of Hi'iaka, Haumea's Largest Satellite. D.M. Hastings, D. Ragozzine, **D.C. Fabrycky**, L.D. Burkhardt, C. Fuentes, J.-L. Margot, M.E. Brown, M. Holman 2016, AJ, 152, 195

A Dynamical Analysis of the Kepler-80 System of Five Transiting Planets. M.G. MacDonald, D. Ragozzine, **D.C. Fabrycky**, et al. [10 additional coauthors], AJ, 152, 105

Kepler-1657b: The Largest and Longest-period Kepler Transiting Circumbinary Planet. V.B. Kostov, J.A. Orosz, W.F. Welsh, L.R. Doyle, **D.C. Fabrycky**, et al. [26 additional coauthors], 2016, ApJ, 827, 86

Transit Timing Observations from Kepler. IX. Catalog of the Full Long-cadence Data Set. T. Holczer et al. [8 coauthors including **D. Fabrycky**] 2016, ApJS, 225, 9

A resonant chain of four transiting, sub-Neptune planets. S.M. Mills, **D. Fabrycky**, C. Migaszewski, E.B. Ford, E. Petigura, H. Isaacson 2016, Nature, 533, 509

Planet Hunters IX. KIC 8462852 – where's the flux? T.S. Boyajian, D. LaCourse, S.A. Rappaport, **D.C. Fabrycky** et al. [45 additional coauthors] 2016, MNRAS, 457, 3988

Secure Mass Measurements from Transit Timing: 10 Kepler Exoplanets between 3 and 8 M_{\oplus} with Diverse Densities and Incident Fluxes. D. Jontof-Hutter et al. [9 coauthors including **D.C. Fabrycky**] 2016, ApJ, 820, 39

Revised Masses and Densities of the Planets around Kepler-10. L.M. Weiss et al. [10 coauthors including **D. Fabrycky**], ApJ, 819, 83

On the fate of unstable circumbinary planets: Tatooine's Close Encounters with a Death Star. A. Sutherland, **D. Fabrycky** 2016, ApJ, 818, 6

The Occurrence and Architecture of Planetary Systems. J.N Winn, **D.C. Fabrycky**, ARA&A, 53, 409

No circumbinary planets transiting the tightest Kepler binaries – a possible fingerprint of a third star. D.V. Martin, T. Mazeh, **D.C. Fabrycky** 2016, MNRAS, 453, 3554

Astrometric Confirmation and Preliminary Orbital Parameters of the Young Exoplanet 51 Eridani b with the Gemini Planet Imager. R.J. De Rosa et al. [49 coauthors including **D.C. Fabrycky**] ApJ, 814, 3

Discovery and Spectroscopy of the young jovian planet 51 Eri b with Gemini Planet Imager. B. Macintosh et al. [86 coauthors including **D.C. Fabrycky**] 2015, Science, 350, 64

KIC 9632895 - The 10th Kepler Transiting Circumbinary Planet. W.F. Welsh et al. [24 coauthors including **D.C. Fabrycky**] 2015, ApJ, 809, 26

Time Variation of Kepler Transits Induced by Stellar Spots – A Way to Distinguish between Prograde and Retrograde Motion. II. Application to KOIs. T. Holczer, A. Shporer, T. Mazeh, **D. Fabrycky**, [and 7 additional coauthors], 2015, ApJ, 807, 170

The mass of the Mars-sized exoplanet Kepler-138 b from transit timing.

- D. Jontof-Hutter, J.F. Rowe, J.J. Lissauer, **D.C. Fabrycky**, E.B. Ford, 2015, *Nature*, 522, 321
- A Hubble Space Telescope Search for a Sub-Earth-sized Exoplanet in the GJ 436 System.* K.B. Stevenson, J.L. Bean, **D. Fabrycky**, L. Kreidberg 2014, *ApJ*, 796, 32
- Mergers and Obliquities in Stellar Triples.* S. Naoz, **D.C. Fabrycky** 2014, *ApJ* 793, 137
- Large Eccentricity, Low Mutual Inclination: The Three-dimensional Architecture of a Hierarchical System of Giant Planets.* R.I. Dawson, J.A. Johnson, **D.C. Fabrycky**, [and 11 coauthors] 2014, *ApJ*, 791, 89
- Architecture of Kepler's Multi-transiting Systems: II. New investigations with twice as many candidates.* **D. C. Fabrycky**, J. J. Lissauer, D. Ragozzine, [and 16 coauthors] 2014, *ApJ*, 790, 146
- Compact Planetary Systems Perturbed by an Inclined Companion. II. Stellar Spin-Orbit Evolution.* G. Boue, **D.C. Fabrycky**, 2014, *ApJ*, 789, 111
- Compact Planetary Systems Perturbed by an Inclined Companion. I. Vectorial Representation of the Secular Model.* G. Boue, **D.C. Fabrycky**, 2014, *ApJ*, 789, 110
- Strong Dependence of the Inner Edge of the Habitable Zone on Planetary Rotation Rate.* J. Yang, G. Boue, **D.C. Fabrycky**, D.S. Abbot 2014, *ApJ*, 787, 2
- The BANANA Project. V. Misaligned and Precessing Stellar Rotation Axes in CV Velorum.* S. Albrecht, J.N. Winn, G. Torres, [and 8 coauthors], 2014, *ApJ*, 785, 83
- Kepler-79's Low Density Planets.* D. Jontof-Hutter, J.J. Lissauer, J.F. Rowe, **D.C. Fabrycky**, 2014, *ApJ*, 785, 15
- Kepler-413b: A Slightly Misaligned, Neptune-size Transiting Circumbinary Planet.* V. B. Kostov, [and 11 coauthors including **D. C. Fabrycky**] 2014, *ApJ*, 784, 14
- Masses, Radii, and Orbits of Small Kepler Planets: The Transition from Gaseous to Rocky Planets.* G. Marcy, [and 101 coauthors including **D. C. Fabrycky**] 2014, *ApJS*, 210, 20
- Kepler Eclipsing Binary Stars. IV. Precise Eclipse Times for Close Binaries and Identification of Candidate Three-Body Systems.* K.E. Conroy, A. Prsa, K.G. Stassun, J.A. Orosz, **D.C. Fabrycky**, W.F. Welsh 2014, *AJ*, 147, 45
- Stellar Spin-Orbit Misalignment in a Multiplanet System.* D. Huber, [and 34 coauthors including **D. C. Fabrycky**], *Science*, 342, 331
- Transit Timing Observations from Kepler. VIII Catalog of Transit Timing Measurements of the First Twelve Quarters.* T. Mazeh, G. Nachmani, T. Holczer, **D.C. Fabrycky**, [and 11 coauthors] 2013, *ApJS*, 208, 16
- Are the Kepler Near-resonance Planet Pairs due to Tidal Dissipation?* M. Hoi Lee, **D. Fabrycky**, D.N.C. Lin 2013, *ApJ*, 774, 52
- All Six Planets Known to Orbit Kepler-11 Have Low Densities.* J.J. Lissauer, D. Jontof-Hutter, J.F. Rowe, **D.C. Fabrycky**, [and 13 additional coauthors] 2013, *ApJ*, 770, 131

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