

Daniel C. Fabrycky
Curriculum Vitae

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Current Position and Institution

2023- *Outside Agency Leave:* Program Director, Astronomy Division, National Science Foundation
2022- Professor, University of Chicago, Department of Astronomy & Astrophysics
2017-2022 Associate Professor, University of Chicago
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

Education

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

Honors

2021 University of Chicago Faculty Award for Excellence in Graduate Teaching and Mentoring
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

Major Grants -- Principal Investigator

2017-2020 Exoplanet Research Program – NASA-XRP NNX17AB93G – Gigayear Instabilities in Planetary Systems
2013-2016 Kepler Participating Scientist Program 3 – NASA-PSP NNX14AB87G – Architectures of Extrasolar Terrestrial Systems

Teaching Experience – courses beginning with 1 or 2: undergrad; with 3 or 4: graduate

2023 winter ASTR 24100 – The Physics of Stars
 2022 Sept. ASTR 12720 – Exoplanets (small version)
 2022-23 spr ASTR 12720 – Exoplanets (large lecture)
 2022 winter ASTR 25800 – Astrophysics of Exoplanets
 2021 spring ASTR 35800 / GEOS 32080 – Astrophysics of Exoplanets
 2020 fall ASTR 30100 – Stars
 2020 spring BPRO 27800 – Science and Christianity (Big Problems)
 2016-19 fall PHSC 12700 – Stars (large lecture)
 2019 winter ASTR 46100 – Dynamics of Exoplanets
 2018 spring ASTR 25800 – Astrophysics of Exoplanets
 2017 spring ASTR 28200 – Special Topics: Gravitational Microlensing
 2016 spring ASTR 35800 / GEOS 32080 – Extrasolar Planets
 ASTR 28200 – Special Topics: Exoplanets
 2015 fall PHSC 12700 – Stars (Laboratory design and oversee)
 2015 spring ASTR 31600 – Dynamics of Particles
 2014 fall ASTR 49900 – Graduate Seminar: Paradigm-Defining Measurements in
 Astrophysics
 2014 winter ASTR 34000 – Statistical Methods for Astronomy & Astrophysics
 2013 fall ASTR 35800 – Extrasolar Planets
 2004 Teaching Assistant: Princeton AST 203, introductory astronomy
 2003-2007 Princeton AST 541/542, astronomy seminar presentations
 2003-2007 Public Observing sessions, head host in 2006/2007

Research Advised

postdocs:

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)

PhD dissertation students:

2017-2022 Nora Bailey (University of Chicago)
 2014-2021 Gregory Gilbert (University of Chicago)
 2012-2017 Sean Mills (University of Chicago)

graduate projects:

2022-2023 Fernanda Horta Correa (University of Chicago, first-year projects)
 2020 Fei Xu (University of Chicago, quarter project)
 2019-2020 Vedad Kunovac Hodžić (Fulbright Fellow visiting from U Birmingham)
 2018-2019 Anora 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 dissertation:

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

undergraduate:

2023 Dillon Bass (U of C, quarters and summer)
 2023 Skylar D'angiolillo (The College of New Jersey, summer project)
 2023 Myles Pope (Howard University, summer REU)

2022-2023	Andrew Kisare (U of C, quarter and summer)
2020-2021	Devin Hoover (U of C, Greg Gilbert main supervisor)
2020-2021	Jared Siegel (U of C, quarters)
2020-2021	Aldo Panfichi (U of C, post-bacc)
2018	Christa Christ (U of C, Benjamin Montet main supervisor)
2018	Ansh Sengul (U of C, senior thesis)
2018-2019	Zhanbo Zhang (Peking U, senior thesis)
2017	Enid Cruz-Colon (University of Puerto Rico, REU summer)
2017-2019	Max Goldberg (U of C quarter, summer, senior thesis)
2017	Katya Gozman (U of C quarter)
2016	William Petterson (U of C quarter, summer)
2016	Morgan Wintersmith (U of C quarter, 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 quarter and summer)
2014	Ningfeng Zhu (U of C quarter)
2013-2014	Taweewat Somboonpanyakul (U of C quarter & Selove Fellow summer)
2011	Reid Sherman (UCSC senior thesis)
2009	Duncan Watts (Harvard semester and summer)
2008	Jasmeen Kanwal (Oxford, summer)

PhD dissertation committees – UChicago unless otherwise noted.

(for *chair* of such committees, see *PhD dissertation students* above)

Stefano Meschiari (2010, UC Santa Cruz), Jean-Baptiste Delisle (2014, University of Paris), Laura Kreidberg (2016), Daniel Koll (2017), Megan Bedell (2017), David V. Martin (2018, University of Geneva), Cameron Liang (2018), Gabriele Pichierra (2019, Université Côte d'Azur), James Lasker (2020), Philip Mansfield (2020), Andrew Neil (2021), Ka Ho Wong (2021, Hong Kong University), Melody Lim (2022)

Astronomy community service

2017	Exoplanets Review, DFG, Berlin
2015	Siemens Competition National Judge
2007-2023	Referee (A&A, ApJ, MRNAS, Nature, PASJ, PASP, Science, PNAS, Amer. Phil. Soc., Nature Astronomy)
3x	NSF review panel
1x	NASA review panel
1x	51 Peg b review panel

Committee Work (* denotes chair)

University level:

2019-2022	Board of the University of Chicago Press
2015-2018	Board of the Library
2014-2016	Adler Planetarium Visiting Committee

Departmental:

2022-2023	Colloquium Committee*
2022-2023	Graduate Admissions
2022-2023	Faculty Search
2019-2022	Graduate Mentoring Committee
2020-2022	Staffing Committee
2020-2022	Awards Committee
2019-2020	Curriculum Committee
2018-2019	Faculty Search*
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

Seminar Series Organized

2020	Origin of Life (co-organized in Physical Sciences Division)
2015-17,19-20	Astro Chalk Talks (with Hsiao-Wen Chen and others)
2014-15,21-22	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

Complex Planetary Systems II, 2023, Namur, Belgium. *Resonant Chains: Interpretation of the Observations.*

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

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| 2023 | Johns Hopkins University, Space Telescope Joint Colloquium |
| 2022 | University of British Columbia, Astronomy Colloquium |
| 2021 | Brigham Young University, Physics Colloquium |

2021 Oxford University, Astronomy Colloquium
2019 Weizmann 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
 2006 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

2023 *Exoplanets in Resonant Chains (online)*, State Microscopical Society of Illinois
 2023 *Exoplanets in Resonant Chains*, Naperville Astronomical Association
 2023 *Exoplanets in Resonant Chains*, Ryerson Astronomical Society
 2022 *Exoplanets and the James Webb Space Telescope*, UChicago Faculty Salon

- 2022 *Exoplanets on the Move*, Montgomery Place, Chicago
- 2020 *Manifestations of Migration: Resonant Chains and Circumbinary Planets*, Ryerson Astronomical Society
- 2019 *Exoplanets Close to Their Stars*, Northwest Suburban Astronomers Club
- 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
- 2014-2019 Astronomy Conversations at Adler Planetarium (approx. monthly)
- 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

Publications

ORCID 0000-0003-3750-0183

- Mass derivation of planets K2-21b and K2-21c from transit timing variations.*
M. El Moutamid, et al. [9 coauthors including **D. Fabrycky**], MNRAS, 520, 422
- Inner Habitable Zone Boundary for Eccentric Exoplanets.* J. Xuan, N. Bailey, **D. Fabrycky**, E.S. Kite, J.H. Jiang, D.S. Abbot, ApJL, 943, 1
- Relative habitability of exoplanet systems with two giant planets.*
N.A. Bailey, **D.C. Fabrycky**, MNRAS, 514, 4765
- Sculpting the circumbinary planet size distribution through resonant interactions with companion planets.*
E. Fitzmaurice, D.V. Martin, **D.C. Fabrycky** 2022, MNRAS 512, 5023
- Transit timings in the three-planet system: TOI-270.*
L. Kaye, et al. [71 coauthors including **D. Fabrycky**] 2022, MNRAS, 510, 5464
- Period Ratio Sculpting near Second-order Mean-motion Resonances.*
N. Bailey, G. Gilbert, **D. Fabrycky** 2022, AJ, 163, 13
- Exciting Mutual Inclination in Planetary Systems with a Distant Stellar Companion: the Case of Kepler-108.*
W. Xu, **D. Fabrycky** 2022, AJ, 163, 12
- Orbital Dynamics and Architectures of Exoplanets.*
D. Fabrycky, 2021, *ExoFrontiers*, ed. N. Madhusudhan, IOP ebooks, Bristol, UK: IOP Publishing, 11-1
- Evidence for a Nondichotomous Solution to the Kepler Dichotomy: Kepler Planetary Systems from Transit Duration Variations.*
S.C. Millholland, et al. [5 coauthors including **D. Fabrycky**] 2021, AJ,

162, 166

- Searching for Small Circumbinary Planets. I. The STANLEY Automated Algorithm and No New Planets in Existing Systems.*
D.V. Martin, **D.C. Fabrycky**, 2021, AJ, 162, 84
- Systematic search for long-term transit duration changes in Kepler transiting planets.*
S. Shahaf, T. Mazeh, S. Zucker, **D. Fabrycky**, 2021, MNRAS, 505, 1293
- Resonant Chains of Exoplanets: Libration Centers of Three-body Angles.*
J.C. Siegel and **D. Fabrycky** 2021, AJ, 161, 290
- Following Up the Kepler Field: Masses of Targets for Transit Timing and Atmospheric Characterization*
D. Jontof-Hutter, et al. [5 coauthors including **D.C. Fabrycky**] 2021, AJ, 161, 246
- Erratum: "Secure Mass Measurements from Transit Timing: 10 Kepler Exoplanets between 3 and 8 M_{\oplus} with Diverse Densities and Incident Fluxes" (2016, ApJ, 820, 39)"*
D. Jontof-Hutter, et al. [9 coauthors including **D.C. Fabrycky**] 2021, ApJ, 911,154
- 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**] 2021, PSJ, 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
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