Eric Agol | Curriculum Vitae

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Professor of Astronomy, Adjunct Professor of Physics.

Previous Employment

- **University of Washington** — **Seattle**
  Professor — *2017 – present*
  Department of Astronomy; Adjunct in Physics.
- **University of Washington** — **Seattle**
  Associate Professor — *2009 –2017*
- **University of Washington** — **Seattle**
  Assistant Professor — *2003 – 2009*
- **Caltech** — **Pasadena**
  Chandra Fellow — *2000 – 2003*
- **Johns Hopkins University** — **Baltimore**
  Postdoctoral Fellow — *1997 – 2000*

Education

Academic Qualifications

- **University of California** — **Santa Barbara**
  PhD, Department of Physics, Astrophysics — *1992–1997*
- **University of California** — **Berkeley**
  BA, Physics and Mathematics — *1988–1992*

Dissertation

- *'The Effects of Magnetic Fields, Absorption, and Relativity on the Polarization of Accretion Disks around Supermassive Black Holes.'*
  Advisor: Omer Blaes.

Selected Research Accomplishments:

- Created grid of models for Quasars (Hubeny, Agol et al. 2000; Agol 1997).
- Computed optically-thin general-relativistic ray-tracing model, and proposed experiment for imaging the shadow of the Galactic Center black hole (Falcke, Melia & Agol 2000), which culminated in the Event Horizon Telescope.
- Derived fast, analytic transit model for quadratic limb-darkening (Mandel & Agol 2002) which has been used in the detection and characterization of *thousands* of exoplanets.

- Coined the term 'Transit-Timing Variations' (TTVs) to describe the detection and characterization of dynamical interactions in transiting multi-planet systems (Agol et al. 2005).
- Developed algorithm for creating the first longitudinal map of an extrasolar planet (Knutson et al. 2007, *Nature*; Cowan & Agol 2008).
- Applied mapping algorithm to EPOXI data of Earth to show that future multi-band monitoring of exoplanets could be used to find oceans and continents (Cowan, Agol et al. 2009).
- Developed novel technique for detecting quasi-periodic transiting exoplanets (Carter & Agol 2013), which was then used to discover and characterize the two most closely orbiting super-Earth mass planets found to date, Kepler-36 (Carter, Agol et al. 2012, *Science*), and the first 7-planet transiting system, Kepler-90 (Lissauer et al. 2014).
- Discovered a small diameter planet in a star's 'habitable zone', Kepler-62f, which had been missed by Kepler pipeline (Borucki, Agol, et al. 2013, *Science*).
- Developed model for self-lensing binary (Agol 2002, 2003); predicted, helped to discover, and characterized the first self-lensing binary star system, KOI-3278 (Farmer & Agol 2003; Agol Kruse & Agol 2014, *Science*).
- Developed fast Gaussian Process model for analysis of time-series of stellar variability (Foreman-Mackey, Agol et al. 2017).
- Developed differentiable N-body code which was used to measure the masses and densitities of the temperate, Earth-sized exoplanets for the first time in the seven-transting planet TRAPPIST-1 system (Gillon et al. 2017, *Nature*; Grimm et al. 2018).

Synergistic Activities

- Pre-MAP: Faculty Advisor of the Pre-Major in Astronomy Program at the University of Washington (Pre-MAP webpage), a research program for undergraduates with the goal of recruiting and retaining students in STEM disciplines. One hundred+ students have participated in research through the program.
- Code development: I developed computer code for modeling planetary transits which has been made freely available, and become widely used by the astronomical community for the discovery and characterization of thousands of transiting extrasolar planets, including TRAPPIST-1. My code has been used in 1400+ papers to date (some of these cite packages which use my code), of which nine are papers in *Nature*, twenty-five in *Science*, with collectively 55,000+ citations which together have an h-index of 107 as of Dec. 2018.

Awards and recognition

- National Merit Scholar (1988).
- Elks' Club Scholar (1988).
- Regents' Scholarship, UC Berkeley (1988-92).
- Phi Beta Kappa, UC Berkeley Chapter (1992).
- Regents' Fellowship, UC Santa Barbara (1992-97).
- California Space Grant Fellowship, UC Santa Barbara (1996).
- Dissertation Fellowship, UC Santa Barbara (1997).
- Chandra Fellow, NASA (2000–2003).
- CAREER Fellowship, National Science Foundation (2007–2014).
- Distinguished Visiting Scientist, Spitzer Science Center, Caltech, Pasadena (2008).
- Miller Visiting Professor, UC Berkeley (2011).
- Lecar Prize for extrasolar planets and theoretical astrophysics (2016).
- Guggenheim Fellow (2017–2018).

Selected grants:

- Total of $4M in grant funding since becoming faculty.
- CAREER: Prospecting for Planets," NSF CAREER, 2007-14

- "Long-term Dynamics of Kepler Multiple Planet Systems," NASA Origins of Solar Systems, 2013-15, PI: Matt Holman
- "Detection and masses of super-Earth transiting planets in the Kepler data," NASA Origins of Solar Systems, 2013-15
- "Masses and architectures of (potentially habitable) exoplanet systems," NSF Astronomy & Astrophysics Collaborative Grant, 2016-19, with Leslie Rogers at University of Chicago
- "CDS&E: Development of fast, multi-dimensional Gaussian Processes for Exoplanet discovery and beyond," NSF Astronomy & Astrophysics Grant, 2019-2022.

University of Washington Service:

- Faculty Advisor for the Pre-Major in Astronomy Program - 2005 to present
- University of Washington graduate student committee member for twelve students to date.
- University of Washington Faculty Senate - 2019-21
- Colloquium chair, UW Department of Astronomy - Fall 2003, Spring 2017, committee member 2019-20
- Astronomy graduate admissions committee (2004-2019); graduate admissions chair (2012, 2014, 2017).
- University of Washington representative to the Sloan Digital Sky Survey III Collaboration Council, 2011-2016
- UW Faculty Advisory Committee for the Louis Stokes Alliance for Minority Participation, 2011-2013
- Committee member for the Institute for Nuclear Theory Senior Fellow search (2010).
- UW Apache Point Observatory Time Allocation Committee member - 2004 to 2006
- UW Undergraduate Astronomy advisor for research - 2003-2004

Astronomical Community Service:

- Scientific Organizing Committee, "Exoplanets-III," Heidelberg, Germany, June 2020.
- Scientific organizing committee for conference "TRAPPIST-1: Towards the comparative study of temperate terrestrial worlds," Liège, Belgium - June 2019.
- Scientific advisor for Kavli Institute for Theoretical Astrophysics Program "Better Stars, Better Planets: Exploiting the Stellar-Exoplanetary Synergy," University of California, Santa Barbara - April-June 2019
- Referee for Nature, Science, Astrophysical Journal and Letters, Astronomical Journal, Publications of the Astronomical Society of the Pacific, Astronomy & Astrophysics, Monthly Notices of the Royal Astronomical Society, Celestial Mechanics - ongoing.
- Co-chair of the Scientific Organizing Committee for "Kepler & K2 Science Conference IV," June 2017.
- Scientific organizing committee for conference "Exoplanets I," Davos Congress Center, Switzerland, 3-8 July 2016.
- Panel member and co-author of the NASA Roadmap Task Force, "Enduring Quests, Daring Visions: NASA Astrophysics in the Next Three Decades," 2013.
- Scientific organizing committee for Aspen Center for Physics program "Exoplanets in Multi-body Systems in the Kepler Era," February 2013.
- Chair of Science Working group for the *Multi-object APO Radial Velocity Exoplanet Large-area Survey* (MARVELS), part of the Sloan Digitial Sky Survey-III project, 2005-12
- Proposal Reviewer: US-Israeli Binational Committee; Hong Kong Research Foundation; NASA Explorer Program; Davidson Fellowship; NASA Postdoctoral Program applications; University of Washington Royalty Research Fund; Chilean National Science Foundation; Polish Science Foundation.
- NASA and NSF Panels: Astrophysics Theory Program; NASA Discovery Program; Hubble Space Telescope Time Allocation Committee, Cycles 11 and 12; Spitzer Space Telescope Time Allocation Committee - chair of galactic/exoplanet panel; NSF CAREER panel.
- Organized special session at 209th American Astronomical Society Meeting in Seattle, WA, January 2007: "Next Generation Radial Velocity Planet Surveys"
- Chaired session at 209th American Astronomical Society Meeting in Seattle, WA, January 2007: "Session 241: Extrasolar Planets IV"
- National Optical Astronomical Observatories Large Survey Time Allocation Committee, October 2007

- American Physical Society Minority Mentor - 2003 to 2004

Courses Taught

Undergraduate Courses:
- PHYS 225 - Introduction to Modern Physics - Special Relativity and Quantum Mechanics
- ASTR 101 - Introduction to Astronomy
- ASTR 102 (5 times) - Honors Introduction to Astronomy
- ASTR 150E (1 time) - Introduction to the Solar System
- ASTR 323 (3 times) - Galaxies and Cosmology
- ASTR 400 (every quarter) - Undergraduate Research

Graduate Courses:
- ASTR 507 (6 times) - Graduate Statistical Mechanics and Thermodynamics (with applications to astrophysics)
- ASTR 508 (1 time) - Graduate Hydrodynamics and Magnetohydrodynamics
- ASTR 561 (6 times) - High Energy Astrophysics
- ASTR 513 (2 times) - Graduate Cosmology
- ASTR 576 (3 times) - Colloquium
- ASTR 597 (4 times) - Exoplanets
- ASTR 600 (every quarter) - Graduate research
- ASTR 800 (every quarter) - Advance graduate research

Recent Invited Talks:

- 2020: Oregon State University Department of Physics Colloquium
- 2019: UC Santa Barbara Physics Colloquium; TRAPPIST-1 Conference; UNLV Astrophysics Colloquium.
- 2018: University of Arizona joint Steward/NOAO colloquium.
- 2017: Institute d'Astrophysique de Paris Colloquium; University of Grenoble seminar; University of Bern seminar; Paris Observatory, Meudon, seminar.
- 2016: Harvard CfA - Colloquium/Lecar Prize Lecture; University of Toronto - Center for Planetary Sciences' Planet Day seminar; University of Washington Astrobiology program - Colloquium; NASA Goddard Spaceflight Center - LUVOIR seminar; JPL Astronomy colloquium; UCSC Astronomy Colloquium
- 2015: UC Santa Barbara - KITP Conference "From Earths to Mini-Neptunes;" Johns Hopkins University - Colloquium; Princeton/Institute for Advanced Study - joint Astrophysics colloquium; University of Hawaii Institute for Astronomy - Colloquium
- 2014: UC Irvine - Physics colloquium; University of Washington - Astronomy colloquium; Space Telescope Science Institute - "Habitable Worlds Throughout Time and Space" conference talk; Harvard Observatory - SSP talk; Boston University - Astrophysics lunch talk.
- 2013: UCLA - colloquium; University of Washington Center for Quantitative Fisheries - seminar; Harvard - SSP seminar; University of British Columbia - "Time and Life in the Universe - A Rountable Initiative" conference talk at the Peter Wall Institute for Advanced Study.
- 2012: Sagan Summer Symposium - plenary talk; Vanderbilt - astronomy colloquium; Johns Hopkins - astrobiology colloquium; Ohio State University - lunch talk; UCSB - astrophysics talk; University of Washington - astronomy colloquim; Applied Physics Laboratory - colloquium; "Planets Around Stellar Remnants" - plenary talk (Arecibo Observatory, Puerto Rico).
- 2011: University of Florida - astronomy colloquium; Miller Institute - lunch talk (UC Berkeley); University of Hawaii - astronomy colloquium, astrobiology talk, geology colloquium; American Astronomical Society - plenary session talk: "Exoplanets: New Approaches to their Discovery and Characterization."
- 2008-2010: SDSS-III Collaboration meeting - plenary session talk; UCSC - astronomy colloquium; Corot First International Symposium - plenary talk; University of British Columbia - astronomy colloquium; UCLA - astronomy colloquium; JPL - astrophysics colloquium; Spitzer Science Center - colloquium; IPAC/Caltech -lunch talk.

Selected Press:

- Feb 2018 - UW Press release on Grimm et al. paper deriving densities of the TRAPPIST-1 system from transit-timing: Concurrent ESO press release. King-5 Interview Q13 Fox coverage
- February 2017 - Transit timing analysis of the Trappist-1 system "UW astronomer Eric Agol assists in new seven-planet NASA discovery using 'distracted driving' technique" KXLY News Radio; Q13 Fox Seattle; King 5 Seattle
- May 2017 - Prediction of period of outermost Trappist-1 planet "Kepler telescope spies details of TRAPPIST-1 system's outermost planet"; Sky & Telescope
- April 2014 - Discovery of first self-lensing binary by graduate student Ethan Kruse: UW Press release
- March 2013 - Discovery of smallest temperate transiting planet, Kepler-62f: UW Press release
- May 2007 "First Map of an Extrasolar Planet," articles in New Scientist, Discover Magazine, Discovery Channel, Scientific American, The Telegraph, National Geographic, USA Today, among others.

PhD Students:

Current:

- Tyler Gordon;
- Bethlee Lindor (NSF Graduate Fellow).
- Diana Windemuth (NASA NESSF Fellow).

Former:

- Rodrigo Luger (co-advised with Rory Barnes): postdoc at Flatiron Institute;
- Jason Steffen: professor at University of Nevada, Las Vegas;
- Nick Cowan: professor at McGill University;
- Jason Dexter: Assistant Professor at University of Colorado, Boulder (Fall 2019);
- Praveen Kundurthy (co-advised with Andrew Becker): data scientist at Blue Origin;
- Ethan Kruse: NASA postdoctoral fellow at GSFC.
- Brett Morris (Postdoctoral Fellow at Universitat Bern, Switzerland);

Postdoctoral mentees:

Former:

- Daniel Foreman-Mackey: Sagan Fellow, now Associate Research Scientist, CCA, Flatiron Institute.
- Sarah Ballard: Sagan Fellow, now Torres Fellow, MIT.
- Jeremiah Murphy: NSF Fellow, now professor at Florida State University.
- John Wisniewski: NSF Fellow, now professor at University of Oklahoma.
- Nick Cowan: professor at McGill University.
- Brian Lee: professor at Santa Fe College in Florida.
- Ian Dobbs-Dixon: Sagan Fellow, now professor at NYU-Abu Dhabi.

Eric Agol | Bibliography

Student and postdoctoral authors I have supervised in published research are indicated in ***bold italics***. As of May 27 2020, I have co-authored 188 refereed, published papers with ≈16,000 citations and an h-index of 63 (NASA ADS).

Refereed and submitted journal articles:

1. "EXOFASTv2: A public, generalized, publication-quality exoplanet modeling code," Eastman, J. D., Rodriguez, J.E., **Agol, E.**, Stassun, K.G., Beatty, T.G., Vanderburg, A., Gaudi, B.S., Collins, K.A. & Luger, R., submitted to AAS Journals. arXiv:1907.09480
2. "TESS unveils the optical phase curve of KELT-1b. Thermal emission and ellipsoidal variation from the brown dwarf companion, and activity from the star," von Essen, C., Mallonn, M., Cowan, N. B., Piette, A., Madhusudhan, N., Agol, E., Antoci, V., Poppenhaeger, K., Stassun, K. G., Khalafinejad, S., Tautvaišienė, G., submitted to *Astronomy & Astrophysics*, (2020) arXiv:2006.09750
3. "TRAPPIST-1: Global Results of the Spitzer Exploration Science Program Red Worlds," Ducrot, Elsa; Gillon, M.; Delrez, L.; Agol, E.; Rimmer, P.; Turbet, M.; Günther, M. N.; Demory, B-O.; Triaud, A. H. M. J.; Bolmont, E.; Burgasser, A.; Carey, S. J.; Ingalls, J. G.; Jehin, E.; Leconte, J.; Lederer, S. M.; Queloz, D.; Raymond, S. N.; Selsis, F.; Van Grootel, V.; de Wit, J., *Astronomy & Atsrophysics*, vol. TBD, 50 pp. (2020) doi:10.1051/0004-6361/201937392
4. "The stellar variability noise floor for transiting exoplanet photometry with PLATO," ***Morris, B. M.***, Bobra, M. G., **Agol, E.**, Lee, Y. J.& Hawley, S. L., *Monthly Notices of the Royal Astronomical Society*, 493(4), 5489 (2020) doi:10.1093/mnras/staa618
5. "The Discovery of the Long-Period, Eccentric Planet Kepler-88 d and System Characterization with Radial Velocities and Photodynamical Analysis," Weiss, L.M., **Agol, E.**, Fabrycky, D.C., Mills, S.M., Howard, A.W., Isaacson, H., Petigura, E.A., Fulton, B.J., Hirsch, L. & Sinukoff, E., *The Astronomical Journal*, 159(5), 242 (2020) doi:10.3847/1538-3881/ab88ca
6. "Impact of tides on the transit-timing fits to the TRAPPIST-1 system," Bolmont, E., Demory, B. -O., Blanco-Cuaresma, S., **Agol, E.**, Grimm, S. L., Auclair-Desrotour, P., Selsis, F.& Leleu, A., *Astronomy & Astrophysics*, 635, A117 (2020) doi:10.1051/0004-6361/202037546
7. "Analytic Planetary Transit Light Curves and Derivatives for Stars with Polynomial limb darkening," **Agol, E.**, Luger, R. & Foreman-Mackey, D., *The Astronomical Journal*, 159(3), 123 (2020) doi:10.3847/1538-3881/ab4fee
8. "An automated method to detect transiting circumbinary planets," ***Windemuth, D.***, **Agol, E.**, Carter, J., Ford, E.B., Haghighipour, N., Orosz, J.A. & Welsh, W. F., *MNRAS*, 490, 1313 (2019). doi:10.1093/mnras/stz2637
9. "Near-resonance in a system of sub-Neptunes from TESS." Quinn, S.N., Becker, J.C., Rodriguez, J.E., Hadden, S., Huang, C.X., Morton, T.D., Adams, F., Armstrong, D., Eastman, J.D., Horner, J. and Kane, S.R., et al. (Eric Agol 22nd author). *The Astronomical Journal*, 158(5), 177 (2019). doi:10.3847/1538-3881/ab3f2b
10. "K2-146: Discovery of Planet c, Precise Masses from Transit Timing, and Observed Precession," Hamann, A., Montet, B.T., Fabrycky, D.C., **Agol, E.** & ***Kruse, E.***, *The Astronomical Journal*,

158(3), 133 (2019) doi:10.3847/1538-3881/ab32e3

11. "Modelling Kepler Eclipsing Binaries: Homogeneous Inference of Orbital & Stellar Properties," ***Windemuth, D.***, **Agol, E.**, ***Aleezah, A.*** & Kiefer, F., *MNRAS*, 489, 1644 (2019) doi:10.1093/mnras/stz2137
12. "Detection of Hundreds of New Planet Candidates and Eclipsing Binaries in K2 Campaigns 0-8." ***Kruse, E.***, Luger, R., Foreman-Mackey, D. & **Agol, E.**, *The Astrophysical Journal Supplement Series*, 244(1), 11 (2019) doi:10.3847/1538-4365/ab346b
13. "Stellar Properties of Active G and K Stars: Exploring the Connection Between Starspots and Chromospheric Activity," ***Morris, B.M.***, Curtis, J.L., Sakari, C., Hawley, S.L. & **Agol, E.**, *Astronomical Journal*, 158(3), 101 (2019) doi:10.3847/1538-3881/ab2e04
14. "APOGEE/Kepler Overlap Yields Orbital Solutions for a Variety of Eclipsing Binaries," Clark Cunningham, J.M., Rawls, M.L., ***Windemuth, D.***, ***Ali, A.***, Jackiewicz, J., **Agol, E.** & Stassun, K.G., *The Astronomical Journal*, 158(3), 106 (2019) doi:10.3847/1538-3881/ab2d2b
15. "Kepler Object of Interest Network III. Kepler-82f: A new non-transiting $21M_{\oplus}$ planet from photodynamical modelling," Freudenthal, J., von Essen, C., Ofir, A., Dreizler, S., **Agol, E.**, Wedemeyer, S., ***Morris, B.M.***, Becker, A.C., Deeg, H.J., Hoyer, S., Mallonn, M., Poppenhaeger, K., Herrero, E., Ribas, I., Boumis, P. & Liakos, A., *Astronomy & Astrophysics*, 628, A108 (2019). doi:10.1051/0004-6361/201935879
16. "The Mass of the White Dwarf Companion in the Self-Lensing Binary KOI-3278: Einstein vs. Newton." Yahalomi D.A., Shvartzvald Y., **Agol E**, Shporer A, Latham DW, Kruse E, Brewer JM, Buchhave LA, Fulton BJ, Howard AW, Isaacson H., *The Astrophysical Journal*, 880, 33 (2019). doi:10.3847/1538-4357/ab2649
17. "The solar benchmark: rotational modulation of the Sun reconstructed from archival sunspot records." Morris, B.M., Davenport, J.R.A., Giles, H.A.C., Hebb, L., Hawley, S.L., Angus, R., Gilman, P.A. & **Agol, E.**. *Monthly Notices of the Royal Astronomical Society* 484(3), 3244-3250 (2019). doi:10.1093/mnras/stz199
18. "Discovery and Characterization of Kepler-36b," **Agol, E.** & Carter, J.A., *New Astronomy Reviews*, 83, 18-27 (2018). doi:10.1016/j.newar.2019.03.004
19. "Kepler-62f: Kepler's First Small Planet in the Habitable Zone, but Is It Real?" Borucki, W., Thompson, S. E., **Agol, E.** & Hedges, C., *New Astronomy Reviews*, 83, 28-38 (2018) doi:10.1016/j.newar.2019.03.002
20. "Discovery of a Third Transiting Planet in the Kepler-47 Circumbinary System," Orosz, J.A., Welsh, W.F., Haghighipour, N., Quarles, B., Short, D.R., Mills, S.M., Satyal, S., Torres, G., **Agol, E.**, Fabrycky, D.C., Jontof-Hutter, D., Windmiller, G., Muller, T.W.A., Hinse, T.C., Cochran, W.D., Endl, M., Ford, E.B., Mazeh, T. & Lissauer, J.J., *The Astronomical Journal*, 157(5), 174 (2019). doi:10.3847/1538-3881/ab0ca0
21. "A second planet with an Earth-like composition orbiting the nearby M dwarf LHS 1140," Ment, K., Dittmann, J.A., Astudillo-Defru, N., Charbonneau, D., Irwin, J., Bonfils, X., Murgas, F., Almenara, J.-M., Forveille, T., **Agol, E.**, Ballard, S., Berta-Thompson, Z.K., Bouchy, F., Cloutier, R., Delfosse, X., Doyon, R., Dressing, C.D., Esquerdo, G.A., Haywood, R.D., Kipping, D.M., Latham, D.W., Lovis, C., Newton, E.R., Pepe, F., Rodriguez, J.E., Santos, N.C., Tan, T.-G., Udry, S., Winters, J.G. & Wünsche, A., *The Astronomical Journal*, 157(1), 32 (2019) doi:10.3847/1538-3881/aaf1b1
22. "STARRY: Analytic Occultation Light Curves," ***Luger, R.***, **Agol, E.**, Foreman-Mackey, D., Fleming, D.P., Lustig-Yaeger, J. & Deitrick, R., *The Astronomical Journal*, 157(2), 64 (2019). doi:10.3847/1538-3881/aae8e5

23. "Are Starspots and Plages Co-located on Active G and K Stars?" ***Morris, B.M.***, Curtis, J.L., Douglas, S.T., Hawley, S.L., Agüeros, M.A., Bobra, M.G. & **Agol, E.**, *The Astronomical Journal*, 156, 203 (2018) doi:10.3847/1538-3881/aae1ab
24. "Kepler Object of Interest Network II. Photodynamical modelling of Kepler-9 over 8 years of transit observations," Freudenthal, J., von Essen, C., Dreizler, S., Wedemeyer, S., **Agol, E.**, ***Morris, B.M.***, Becker, A.C., Mallonn, M., Hoyer, S., Ofir, A., Tal Or, L., Deeg, H.J., Herrero, E., Ribas, I., Khalafinejad, S., Hernández, J. & Rodríguez, S.M.M., *Astronomy & Astrophysics*, 618, A41 (2018) doi:10.1051/0004-6361/201833436
25. "The 0.8-4.5μm broadband transmission spectra of TRAPPIST-1 planets," Ducrot, E., Sestovic, M., ***Morris, B.M.***, Gillon, M., Triaud, A.H.M.J., de Wit, J., Thimmarayappa, D., **Agol, E.**, Almleaky, Y., Burdanov, A., Burgasser, A.J., Delrez, L., Demory, B-O., Jehin, E., Leconte, J., McCormac, J., Murray, C., Queloz, D., Selsis, F., Thompson, S. & Van Grootel, V., *Astronomy & Astrophysics*, 156, 218 (2018) doi:10.3847/1538-3881/aade94
26. "An Update to the EVEREST K2 Pipeline: Short Cadence, Saturated Stars, and Kepler-like Photometry Down to $K_p = 15$," ***Luger, R., Kruse, E., Foreman-Mackey, D.***, **Agol, E.** & Saunders, N., *The Astronomical Journal*, 156, 99 (2018) doi:10.3847/1538-3881/aad230
27. "Robust Transiting Exoplanet Radii in the Presence of Starspots from Ingress and Egress Durations," ***Morris, B.M.***, **Agol, E.**, Hebb, L. & Hawley, S.L., *The Astronomical Journal*, 156, 91 (2018) doi:10.3847/1538-3881/aad3b7
28. "Non-detection of Contamination by Stellar Activity in the Spitzer Transit Light Curves of TRAPPIST-1," ***Morris, B.M.***, **Agol, E.**, Hebb, L., Hawley, S.L., Gillon, M., Ducrot, E., Delrez, L., Ingalls, J. & Demory, B.-O., *The Astrophysical Journal*, 863, 32 (2018) doi:10.3847/2041-8213/aad8aa
29. "Kepler Object of Interest Network I. First results combining ground and space-based observations of Kepler systems with transit timing variations," von Essen, C., Ofir, A., Dreizler, S., **Agol, E.**, Freudenthal, J., Hernandez, J., Wedemeyer, S., Parkash, V., Deeg, H. J., Hoyer, S., ***Morris, B. M.***, Becker, A. C., Sun, L., Gu, S. H., Herrero, E., Tal-Or, L., Poppenhaeger, K., Mallonn, M., Albrecht, S., Khalafinejad, S., Boumis, P., Delgado-Correal, C., Fabrycky, D. C., Janulis, R., Lalitha, S., Liakos, A., Mikolaitis, S., Moyano D'Angelo, M. L., Sokov, E., Pakstiene, E., Popov, A., Krushinsky, V., Ribas, I., Rodriguez S., M. M., Rusov, S., Sokova, I., Tautvaisiene, G. & Wang, X., *Astronomy & Astrophysics*, 615, 79 (2018) doi:10.1051/0004-6361/201732483
30. "Spotting stellar activity cycles in Gaia astrometry," ***Morris, B.M.***, **Agol, E.**, Davenport, J.R.A. & Hawley, S.L., *Monthly Notices of the Royal Astronomical Society*, 476, 5408 (2018) doi:10.1093/mnras/sty568
31. "The nature of the TRAPPIST-1 exoplanets," Grimm, S.L., Demory, B.-O., Gillon, M., Dorn, C., **Agol, E.**, Burdanov, A., Delrez, L., Sestovic, M., Triaud, A.H.M.J., Turbet, M., Bolmont, E., Caldas, A., de Wit, J., Jehin, E., Leconte, J., Raymond, S.N., Van Grootel, V., Burgasser, A.J., Carey, S., Fabrycky, D., Heng, K., Hernandez, D.M., Ingalls, J.G., Lederer, S., Selsis, F. & Queloz, D., *Astronomy & Astrophysics*, 613, 68 (2018) doi:10.1051/0004-6361/201732233
32. "Periodic optical variability and debris accretion in white dwarfs: a test for a causal connection," Hallakoun, N., Maoz, D., **Agol, E.**, Brown, W.R., Dufour, P., Farihi, J., Gansicke, B.T., Kilic, M., Kosakowski, A., Loeb, A., Mazeh, T. & Mullally, F., *Monthly Notices of the Royal Astronomical Society*, 476, 933 (2018) doi:10.1093/mnras/sty257
33. "Early 2017 observations of TRAPPIST-1 with Spitzer," Delrez, L., Gillon, M., Triaud, A. H. M. J., Demory, B.-O., de Wit, J., Ingalls, J. G., **Agol, E.**, Bolmont, E., Burdanov, A., Burgasser, A. J., Carey, S. J., Jehin, E., Leconte, J., Lederer, S., Queloz, D., Selsis, F. & Van Grootel, V.,

Monthly Notices of the Royal Astronomical Society, 475, 3577 (2018) doi:10.1093/mnras/sty051

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