

# Eric Agol | Curriculum Vitae

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Professor of Astronomy, Adjunct Professor of Physics.

## Previous Employment

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- **University of Washington** **Seattle**  
*Professor* 2014 – present  
Department of Astronomy; Adjunct in Physics.
- **University of Washington** **Seattle**  
*Associate Professor* 2009 – 2014
- **University of Washington** **Seattle**  
*Assistant Professor* 2003 – 2009
- **Caltech** **Pasadena**  
*Chandra Fellow* 2000 – 2003
- **Johns Hopkins University** **Baltimore**  
*Postdoctoral Fellow* 1997 – 2000

## Education

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### 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:

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- 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 of temperate, Earth-sized exoplanets for the first time in the seven-planet TRAPPIST-1 system (Gillon et al. 2017, *Nature*; Grimm et al. 2018).

## Synergistic Activities

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- 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

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- 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:

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- 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:

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- 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:

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- 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 Digital 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

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### 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 (5 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 (2 times) - Colloquium
- ASTR 597 (3 times) - Exoplanets
- ASTR 600 (every quarter) - Graduate research
- ASTR 800 (every quarter) - Advance graduate research

## Recent Invited Talks:

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- 2019: UC Santa Barbara Physics Colloquium; TRAPPIST-1 Conference.
- 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 Roundtable 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 colloquium; 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:

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- 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:

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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:

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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.

## References

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- Available upon request.

# Eric Agol | Bibliography

Student and postdoctoral authors I have supervised in published research are indicated in **bold italics**. As of 6 August 2019, I have 176 refereed, published papers with 14,000 citations and an *h*-index of 60 (NASA ADS).

## Refereed and submitted journal articles:

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1. "Analytic Planetary Transit Light Curves and Derivatives for Stars with Polynomial limb darkening," **Agol, E.**, Luger, R. & Foreman-Mackey, D., submitted to AAS Journals.
2. "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). Submitted to AAS Journals 2019. [arXiv:1901.09092](#)
3. "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](#)
4. "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.**, in press, AAS Journals [arXiv:1907.10620](#)
5. "Modeling Kepler Eclipsing Binaries: Homogeneous Inference of Orbital & Stellar Properties," **Windemuth, D.**, **Agol, E.**, **Aleezah, A.** & Kiefer, F., in press in AAS Journals [arXiv:1908.00139](#)
6. "Detection of Hundreds of New Planet Candidates and Eclipsing Binaries in K2 Campaigns 0-8." **Kruse, E.**, Luger, R., Foreman-Mackey, D. & **Agol, E.**, in press in AAS Journals. [arXiv:1907.10806](#)
7. "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* in press (2019) [arXiv:1907.00423](#)
8. "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*, in press [arXiv:1907.00095](#)
9. "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*, in press doi:[10.1051/0004-6361/201935879](#)
10. "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](#)
11. "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](https://doi.org/10.1093/mnras/stz199)
12. "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](https://doi.org/10.1016/j.newar.2019.03.004)
  13. "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](https://doi.org/10.1016/j.newar.2019.03.002)
  14. "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](https://doi.org/10.3847/1538-3881/ab0ca0)
  15. "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](https://doi.org/10.3847/1538-3881/aaf1b1)
  16. "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](https://doi.org/10.3847/1538-3881/aae8e5)
  17. "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](https://doi.org/10.3847/1538-3881/aae1ab)
  18. "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](https://doi.org/10.1051/0004-6361/201833436)
  19. "The 0.8-4.5 $\mu$ m 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](https://doi.org/10.3847/1538-3881/aade94)
  20. "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](https://doi.org/10.3847/1538-3881/aad230)
  21. "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](https://doi.org/10.3847/1538-3881/aad3b7)
  22. "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](https://doi.org/10.3847/2041-8213/aad8aa)
  23. "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](https://doi.org/10.1051/0004-6361/201732483)
24. "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](https://doi.org/10.1093/mnras/sty568)
  25. "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](https://doi.org/10.1051/0004-6361/201732233)
  26. "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](https://doi.org/10.1093/mnras/sty257)
  27. "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](https://doi.org/10.1093/mnras/sty051)
  28. "Possible Bright Starspots on TRAPPIST-1," **Morris, B.M.**, **Agol, E.**, Davenport, J.R.A. & Hawley, S.L., *The Astrophysical Journal*, 857, 39 (2018) doi:[10.3847/1538-4357/aab6a5](https://doi.org/10.3847/1538-4357/aab6a5)
  29. "Pre-MAP Search for Transiting Objects Orbiting White Dwarfs," Wallach, A., **Morris, B.M.**, Branton, D., O'Reilly, T., Platt, B., Beale, A., Yetter, A., Reil, K., Garofali, K., **Agol, E.** & The SPAMS Collaboration, *Research Notes of the American Astronomical Society*, 2, 41 (2018) doi:[10.3847/2515-5172/aab5ba](https://doi.org/10.3847/2515-5172/aab5ba)
  30. "Phase Curves of WASP-33b and HD 149026b and a New Correlation between Phase Curve Offset and Irradiation Temperature," Zhang, M., Knutson, H.A., Kataria, T., Schwartz, J.C., Cowan, N.B., Showman, A.P., Burrows, A., Fortney, J.J., Todorov, K., Desert, J.-M., **Agol, E.** & Deming, D., *The Astronomical Journal*, 155, 83 (2018) doi:[10.3847/1538-3881/aaa458](https://doi.org/10.3847/1538-3881/aaa458)
  31. "Photometric Analysis and Transit Times of TRAPPIST-1 B and C," **Morris, B.M.**, **Agol, E.** & Hawley, S.L., *Research Notes of the American Astronomical Society*, 2, 10 (2018) doi:[10.3847/2515-5172/aaa6cd](https://doi.org/10.3847/2515-5172/aaa6cd)
  32. "Planet-Planet Occultations in TRAPPIST-1 and Other Exoplanet Systems," **Luger, R.**, Lustig-Yaeger, J. & **Agol, E.**, *The Astrophysical Journal*, 851, 94 (2017) doi:[10.3847/1538-4357/aa9c43](https://doi.org/10.3847/1538-4357/aa9c43)
  33. "Fast and scalable Gaussian process modeling with applications to astronomical time series," **Foreman-Mackey, D.**, **Agol, E.**, Ambikasaran, S. & Angus, R., *The Astronomical Journal*, 154, 220 (2017) doi:[10.3847/1538-3881/aa9332](https://doi.org/10.3847/1538-3881/aa9332)
  34. "Chromospheric Activity of HAT-P-11: An Unusually Active Planet-hosting K Star," **Morris, B.M.**, Hawley, S.L., Hebb, L., Sakari, C., Davenport, J.R.A., Isaacson, H., Howard, A.W., Montet, B.T. & **Agol, Eric**, *The Astrophysical Journal*, 848, 58 (2017) doi:[10.3847/1538-4357/aa8cca](https://doi.org/10.3847/1538-4357/aa8cca)
  35. "A seven-planet resonant chain in TRAPPIST-1," **Luger, R.**, Sestovic, M., **Kruse, E.**, Grimm, S.L., Demory, B.-O., **Agol, E.**, Bolmont, E., Fabrycky, D., Fernandes, C.S., Van Grootel, V., Burgasser, A., Gillon, M., Ingalls, J.G., Jehin, E., Raymond, S.N., Selsis, F., Triaud, A.H.M.J.,



- Barclay, T., Barentsen, G., Howell, S.B., Delrez, L., de Wit, J., **Foreman-Mackey, D.**, Holdsworth, D.L., Leconte, J., Lederer, S., Turbet, M., Almlaeky, Y., Benkhaldoun, Z., Magain, P., **Morris, B.M.**, Heng, K. & Queloz, D., *Nature Astronomy*, 1, 0129 (2017) doi:[10.1038/s41550-017-0129](https://doi.org/10.1038/s41550-017-0129)
36. "Exploring the brown dwarf desert: new substellar companions from the SDSS-III MARVELS survey," Grieves, N., Ge, J., Thomas, N., Ma, B., Sithajan, S., Ghezzi, L., Kimock, B., Willis, K., De Lee, N., **Lee, B.**, Fleming, S.W., **Agol, E.**, Troup, N., Paegert, M., Schneider, D.P., Stassun, K., Varosi, F., Zhao, B., Jian, L., Li, R., Porto de Mello, G.F., Bizyaev, D., Pan, K., Dutra-Ferreira, L., Lorenzo-Oliveira, D., Santiago, B.X., da Costa, L.N., Maia, M.A.G., Ogando, R.L.C. & del Peloso, E.F., *Monthly Notices of the Royal Astronomical Society*, 467, 4264 (2017) doi:[10.1093/mnras/stx334](https://doi.org/10.1093/mnras/stx334)
  37. "New Insights on Planet Formation in WASP-47 from a Simultaneous Analysis of Radial Velocities and Transit Timing Variations," Weiss, Lauren M., Deck, K., Sinukoff, E., Petigura, E.A., **Agol, E.**, Lee, E.J., Becker, J.C., Howard, A.W., Isaacson, H., Crossfield, I.J.M., Fulton, B.J. & Hirsch, L., *The Astrophysical Journal*, 153, 265 (2017) doi:[10.3847/1538-3881/aa6c29](https://doi.org/10.3847/1538-3881/aa6c29)
  38. "The Pale Green Dot: A Method to Characterize Proxima Centauri b using Exo-Aurorae," **Luger, R.**, Lustig-Yaeger, J., Fleming, D.P., Tilley, M.A., **Agol, E.**, Meadows, V.S., Deitrick, R. & Barnes, R., *The Astrophysical Journal*, 837, 63 (2017) doi:[10.3847/1538-4357/aa6040](https://doi.org/10.3847/1538-4357/aa6040)
  39. "Seven temperate terrestrial planets around the nearby ultracool dwarf star TRAPPIST-1," Gillon, M., Triaud, A., Demory, B.-O., Jehin, E., **Agol, E.**, Deck, K., Lederer, S., de Wit, J., Burdanov, A., Ingalls, J., Bolmont, E., Leconte, J., Raymond, S., Selsis, F., Turbet, M., Barkaoui, K., Benkhaldoun, Z., Burgasser, A., Burleigh, M., Carey, S., Copperwheat, C., Delrez, L., Fernandes, C., Holdsworth, D., Kotze, E., Magain, P., Queloz, D., Chaushev, A., Van Grootel, V., Almlaeky, Y., *Nature*, 542, 456 (2017) doi:[10.1038/nature21360](https://doi.org/10.1038/nature21360)
  40. "Planet-induced Stellar Pulsations in HAT-P-2's Eccentric System," de Wit, J., Lewis, N.K., Knutson, H.A., Fuller, J., Antoci, V., Fulton, B.J., Laughlin, G., Deming, D., Shporer, A., Batygin, K., Cowan, N.B., **Agol, E.**, Burrows, A.S., Fortney, J.J., Langton, J., and Showman, A.P., *The Astrophysical Journal*, 836, L17 (2017) doi:[10.3847/2041-8213/836/2/L17](https://doi.org/10.3847/2041-8213/836/2/L17)
  41. "Transit Timing and Duration Variations for the Discovery and Characterization of Exoplanets," **Agol, E.** & Fabrycky, D., 2017, *Handbook of Exoplanets*, Edited by Hans J. Deeg and Juan Antonio Belmonte. Springer Living Reference Work, ISBN: 978-3-319-30648-3, (2017) doi:[10.1007/978-3-319-55333-7\\_7](https://doi.org/10.1007/978-3-319-55333-7_7)
  42. "The population of long-period transiting exoplanets," **Foreman-Mackey, D.**, Morton, T.D., Hogg, D.W., **Agol, E.** & Schölkopf, B., *The Astronomical Journal*, 152, 206 (2016) doi:[10.3847/0004-6256/152/6/206](https://doi.org/10.3847/0004-6256/152/6/206)
  43. "Very Low-Mass Stellar and Substellar Companions to Solar-like Stars From MARVELS VI: A Giant Planet and a Brown Dwarf Candidate in a Close Binary System HD 87646," Ma, B., Ge, J., Wolszczan, A., Muterspaugh, M.W., Lee, B., Henry, G.W., Schneider, D.P., Martin, E.L., Niedzielski, A., Xie, J., Fleming, S.W., Thomas, N., Williamson, M., Zhu, Z., **Agol, E.**, Bizyaev, D., Nicolaci da Costa, L., Jiang, P., Martinez Fiorenzano, A.F., Gonzalez Hernandez, J.I., Guo, P., Grieves, N., Li, R., Liu, J., Mahadevan, S., Mazeh, T., Nguyen, D.C., Paegert, M., Sithajan, S., Stassun, K., Thirupathi, S., van Eyken, J.C., Wan, X., Wang, J., Wisniewski, J.P., Zhao, B. & Zucker, S., *The Astronomical Journal*, 152, 112 (2016) doi:[10.3847/0004-6256/152/5/112](https://doi.org/10.3847/0004-6256/152/5/112)
  44. "EVEREST: Pixel Level Decorrelation of K2 Light curves," **Luger, R.**, **Agol, E.**, **Kruse, E.**, Barnes, R., Becker, A., **Foreman-Mackey, D.** & Deming, D., *The Astronomical Journal*, 152, 100 (2016) doi:[10.3847/0004-6256/152/4/100](https://doi.org/10.3847/0004-6256/152/4/100)
  45. "Transiting Exoplanet Studies and Community Targets for JWST's Early Release Science Program,"

- Stevenson, K.B., Lewis, N.K., Bean, J.L., Beichman, C., Fraine, J., Kilpatrick, B.M., Krick, J.E., Lothringer, J.D., Mandell, A.M., Valenti, J.A., **Agol, E.**, Angerhausen, D., Barstow, J.K., Birkmann, S.M., Burrows, A., Charbonneau, D., Cowan, N.B., Crouzet, N., Cubillos, P.E., Curry, S.M., Dalba, P.A., de Wit, J., Deming, D., Désert, J.-M., Doyon, R., Dragomir, D., Ehrenreich, D., Fortney, J.J., Garcia Muñoz, A., Gibson, N.P., Gizis, J.E., Greene, T.P., Harrington, J., Heng, K., Kataria, T., Kempton, E.M.-R., Knutson, H., Kreidberg, L., Lafrenière, D., Lagage, P.-O., Line, M.R., Lopez-Morales, M., Madhusudhan, N., Morley, C.V., Rocchetto, M., Schlawin, E., Shkolnik, E.L., Shporer, A., Sing, D.K., Todorov, K.O., Tucker, G.S. & Wakeford, H.R., *Publications of the Astronomical Society of the Pacific*, 128, 094401 (2016) doi:[10.1088/1538-3873/128/967/094401](https://doi.org/10.1088/1538-3873/128/967/094401)
46. "The Effect of Orbital Configuration on the Possible Climates and Habitability of Kepler-62f," Shields, A.L., Barnes, R., **Agol, E.**, Charnay, B., Bitz, C. & Meadows, V.S., *Astrobiology*, 16, 443 (2016) doi:[10.1089/ast.2015.1353](https://doi.org/10.1089/ast.2015.1353)
47. "3.6 and 4.5  $\mu\text{m}$  Spitzer Phase Curves of the Highly Irradiated Hot Jupiters WASP-19b and HAT-P-7b," Wong, I., Knutson, H.A., Kataria, T., Lewis, N.K., Burrows, A., Fortney, J.J., Schwartz, J., Shporer, A., **Agol, E.**, Cowan, N.B., Deming, D., Désert, J.-M., Fulton, B.J., Howard, A.W., Langton, J., Laughlin, G., Showman, A.P. & Todorov, K., *The Astrophysical Journal*, 823, 122 (2016) doi:[10.3847/0004-637X/823/2/122](https://doi.org/10.3847/0004-637X/823/2/122)
48. "Predictable patterns in planetary transit timing variations and transit duration variations due to exomoons," Heller, R., Hippke, M., Placek, B., Angerhausen, D. & **Agol, E.**, *Astronomy & Astrophysics*, 591, 67 (2016) doi:[10.1051/0004-6361/201628573](https://doi.org/10.1051/0004-6361/201628573)
49. "SDSS J1152+0248: an eclipsing double white dwarf from the Kepler K2 campaign," Hallakoun, N., Maoz, D., Kilic, M., Mazeh, T., Gianninas, A., **Agol, E.**, Bell, K. J., Bloemen, S., Brown, W. R., Debes, J., Faigler, S., Kull, I., Kupfer, T., Loeb, A., **Morris, B. M.** & Mullally, F., *Monthly Notices of the Royal Astronomical Society*, 458, 845 (2016) doi:[10.1093/mnras/stw364](https://doi.org/10.1093/mnras/stw364)
50. "Transit Timing Variations for Planets near Eccentricity-type Mean Motion Resonances," Deck, K.M. & **Agol, E.**, *The Astrophysical Journal*, 821, 96 (2016) doi:[10.3847/0004-637X/821/2/96](https://doi.org/10.3847/0004-637X/821/2/96)
51. "Seeing Through the Ring: Near-infrared Photometry of V582 Mon (KH 15D)," Arulanantham, N.A., Herbst, W., Cody, A.M., Stauffer, J.R., Rebull, L.M., *Agol, E.*, **Windemuth, D.**, Marengo, M., Winn, J.N., Hamilton, C.M., Mundt, R., Johns-Krull, C.M. & Gutermuth, R.A., *The Astronomical Journal*, 151, 90 (2016) doi:[10.3847/0004-6256/151/4/90](https://doi.org/10.3847/0004-6256/151/4/90)
52. "Secure Mass Measurements from Transit Timing: 10 Kepler Exoplanets between 3 and 8  $M_{\oplus}$  with Diverse Densities and Incident Fluxes," Jontof-Hutter, D., Ford, E.B., Rowe, J.F., Lissauer, J.J., Fabrycky, Daniel C., Van Laerhoven, C., **Agol, E.**, Deck, K.M., Holczer, T. & Mazeh, T., *The Astrophysical Journal*, 820, 39 (2016) doi:[10.3847/0004-637X/820/1/39](https://doi.org/10.3847/0004-637X/820/1/39)
53. "Revised Masses and Densities of the Planets around Kepler-10," Weiss, L.M., Rogers, L.A., Isaacson, H.T., **Agol, E.**, Marcy, G.W., Rowe, J.F., Kipping, D., Fulton, B.J., Lissauer, J.J., Howard, A.W. & Fabrycky, D., *The Astrophysical Journal*, 819, 83 (2016) doi:[10.3847/0004-637X/819/1/83](https://doi.org/10.3847/0004-637X/819/1/83)
54. "Kepler Eclipsing Binary Stars. VII. The Catalog of Eclipsing Binaries Found in the Entire Kepler Data Set," Kirk, B., Conroy, K., Prâa, A., Abdul-Masih, M., Kochoska, A., Matijevic, G., Hambleton, K., Barclay, T., Bloemen, S., Boyajian, T., Doyle, L.R., Fulton, B.J., Hoekstra, A.J., Jek, K., Kane, S.R., Kostov, V., Latham, D., Mazeh, T., Orosz, J.A., Pepper, J., Quarles, B., Ragozzine, D., Shporer, A., Southworth, J., Stassun, K., Thompson, S.E., Welsh, W.F., **Agol, E.**, Deras, A., Devor, J., Fischer, D., Green, G., Gropp, J., Jacobs, T., Johnston, C., LaCourse, D.M., Saetre, K., Schwengeler, H., Toczyski, J., Werner, G., Garrett, M., Gore, J., Martinez, A.O., Spitzer, I., Stevick, J., Thomadis, P.C., Halley Vrijmoet, E., Yenawine, M., Batalha, N. &

- Borucki, W., *The Astronomical Journal*, 151, 68 (2016) doi:[10.3847/0004-6256/151/3/68](https://doi.org/10.3847/0004-6256/151/3/68)
55. "Transit Timing to First Order in Eccentricity," **Agol, E.** & Deck, K., *The Astrophysical Journal*, 818, 177 (2016) doi:[10.3847/0004-637X/818/2/177](https://doi.org/10.3847/0004-637X/818/2/177)
  56. "Spectral Eclipse Timing," **Dobbs-Dixon, I., Agol, E.** & Deming, D., *The Astrophysical Journal*, 815, 60 (2015) doi:[10.1088/0004-637X/815/1/60](https://doi.org/10.1088/0004-637X/815/1/60)
  57. "The Center of Light: Spectroastrometric Detection of Exomoons," **Agol, E., Jansen, T., Lacy, B.,** Robinson, T.D., & Meadows, V., *The Astrophysical Journal*, 812, 5 (2015) doi:[10.1088/0004-637X/812/1/5](https://doi.org/10.1088/0004-637X/812/1/5)
  58. "3.6 and 4.5  $\mu\text{m}$  Phase Curves of the Highly Irradiated Eccentric Hot Jupiter WASP-14b," Wong, I., Knutson, H.A., Lewis, N.K., Kataria, T., Burrows, A., Fortney, J.J., Schwartz, J., **Agol, E.,** Cowan, N.B., Deming, D., Désert, J.-M., Fulton, B.J., Howard, A.W., Langton, J., Laughlin, G., Showman, A.P., & Todorov, K., *The Astrophysical Journal*, 811, 122 (2015) doi:[10.1088/0004-637X/811/2/122](https://doi.org/10.1088/0004-637X/811/2/122)
  59. "Spitzer Secondary Eclipse Observations of Five Cool Gas Giant Planets and Empirical Trends in Cool Planet Emission Spectra," Kammer, J.A., Knutson, H.A., Line, M.R., Fortney, J.J., Deming, D., Burrows, A., Cowan, N.B., Triaud, A.H.M.J., **Agol, E.,** Desert, J.-M., Fulton, B.J., Howard, A.W., Laughlin, G.P., Lewis, N.K., Morley, C.V., Moses, J.I., Showman, A.P., & Todorov, K.O., *The Astrophysical Journal*, 810, 118 (2015) doi:[10.1088/0004-637X/810/2/118](https://doi.org/10.1088/0004-637X/810/2/118)
  60. "Spitzer Secondary Eclipses of the Dense, Modestly-irradiated, Giant Exoplanet HAT-P-20b Using Pixel-level Decorrelation," Deming, D., Knutson, H., Kammer, J., Fulton, B.J., Ingalls, J., Carey, S., Burrows, A., Fortney, J.J., Todorov, K., **Agol, E.,** Cowan, N., Désert, J.-M., Fraine, J., Langton, J., Morley, C., & Showman, A.P., *The Astrophysical Journal*, 805, 132 (2015) doi:[10.1088/0004-637X/805/2/132](https://doi.org/10.1088/0004-637X/805/2/132)
  61. "Measurement of Planet Masses with Transit Timing Variations Due to Synodic Chopping Effects," Deck, K.M. & **Agol, E.,** *The Astrophysical Journal*, 802, 116 (2015) doi:[10.1088/0004-637X/802/2/116](https://doi.org/10.1088/0004-637X/802/2/116)
  62. "The APOGEE Spectroscopic Survey of Kepler Planet Hosts: Feasibility, Efficiency, and First Results," Fleming, S.W., Mahadevan, S., Deshpande, R., Bender, C.F., Terrien, R.C., Marchwinski, R.C., Wang, J., Roy, A., Stassun, K.G., Allende Prieto, C., Cunha, K., Smith, V.V., **Agol, E.,** Ak, H., Bastien, F.A., Bizyaev, D., Crepp, J.R., Ford, E.B., Frinchaboy, P.M., Garcia-Hernandez, D.A., Garcia Perez, A.E., Gaudi, B.S., Ge, J., Hearty, F., Ma, B., Majewski, S.R., Meszaros, S., Nidever, D.L., Pan, K., Pepper, J., Pinsonneault, M.H., Schiavon, R.P., Schneider, D.P., Wilson, J.C., Zamora, O., & Zasowski, G., *The Astronomical Journal*, 149, 143 (2015) doi:[10.1088/0004-6256/149/4/143](https://doi.org/10.1088/0004-6256/149/4/143)
  63. "Planet Hunters. VII. Discovery of a New Low-mass, Low-density Planet (PH3 C) Orbiting Kepler-289 with Mass Measurements of Two Additional Planets (PH3 B and D)," Schmitt, J.R., **Agol, E.,** Deck, K.M., Rogers, L.A., Gazak, J.Z., Fischer, D.A., Wang, J., Holman, M.J., Jek, K.J., Margossian, C., Omohundro, M.R., Winarski, T., Brewer, J.M., Giguere, M.J., Lintott, C., Lynn, S., Parrish, M., Schawinski, K., Schwamb, M.E., Simpson, R., & Smith, A.M., *The Astrophysical Journal*, 795, 167 (2014) doi:[10.1088/0004-637X/795/2/167](https://doi.org/10.1088/0004-637X/795/2/167)
  64. "Constraints on the Atmospheric Circulation and Variability of the Eccentric Hot Jupiter XO-3b," Wong, I., Knutson, H.A., Cowan, N.B., Lewis, N.K., **Agol, E.,** Burrows, A., Deming, D., Fortney, J.J., Fulton, B.J., Langton, J., Laughlin, G., & Showman, A.P., *The Astrophysical Journal*, 794, 134 (2014) doi:[10.1088/0004-637X/794/2/134](https://doi.org/10.1088/0004-637X/794/2/134)
  65. "Architecture of Kepler's Multi-transiting Systems: II. New investigations with twice as many candidates," Fabrycky, D. C., Lissauer, J. J., Ragozzine, D., Rowe, J. F., **Agol, E.,** Barclay, T.,

- Batalha, N., Borucki, W., Ciardi, D. R., Ford, E. B., Geary, J. C., Holman, M. J., Jenkins, J. M., Li, J., Morehead, R. C., Shporer, A., Smith, J. C., Steffen, J. H., & Still, M., *The Astrophysical Journal*, 790, 146 (2014) doi:[10.1088/0004-637X/790/2/146](https://doi.org/10.1088/0004-637X/790/2/146)
66. "The 4.5  $\mu\text{m}$  Full-orbit Phase Curve of the Hot Jupiter HD 209458b," Zellem, R.T., Lewis, N.K., Knutson, H.A., Griffith, C.A., Showman, A.P., Fortney, J.J., Cowan, N.B., **Agol, E.**, Burrows, A., Charbonneau, D., Deming, D., Laughlin, G., & Langton, J., *The Astrophysical Journal*, 790, 53 (2014) doi:[10.1088/0004-637X/790/1/53](https://doi.org/10.1088/0004-637X/790/1/53)
  67. "Atmospheric Characterization of the Hot Jupiter Kepler-13Ab," Shporer, A., O'Rourke, J.G., Knutson, H.A., Szabo, G.M., Zhao, M., Burrows, A., Fortney, J., **Agol, E.**, Cowan, N.B., Dester, J.-M., Howard, A.W., Isaacson, H., Lewis, N.A., Showman, A.P. & Todorov, K.O., *The Astrophysical Journal*, 788, 92 (2014) doi:[10.1088/0004-637X/788/1/92](https://doi.org/10.1088/0004-637X/788/1/92)
  68. "TTVFast: An efficient and accurate code for transit timing inversion problems," Deck, K.M., **Agol, E.**, Holman, M.J. & Nesvorny, D., *The Astrophysical Journal*, 787, 132 (2014) doi:[10.1088/0004-637X/787/2/132](https://doi.org/10.1088/0004-637X/787/2/132)
  69. "KOI-3278: A Self-Lensing Binary Star System," **Kruse, E. & Agol, E.**, *Science*, 344, 275 (2014) doi:[10.1126/science.1251999](https://doi.org/10.1126/science.1251999)
  70. "Kepler-210: An active star with at least two planets," Ioannidis, P., Schmitt, J.H.M.M., Avdellidou, Ch., von Essen, C. & **Agol, E.**, *Astronomy & Astrophysics*, 564, 33 (2014) doi:[10.1051/0004-6361/201322622](https://doi.org/10.1051/0004-6361/201322622)
  71. "Validation of Kepler's Multiple Planet Candidates. III. Light Curve Analysis and Announcement of Hundreds of New Multi-planet Systems," Rowe, J.F., Bryson, S.T., Marcy, G.W., Lissauer, J.J., Jontof-Hutter, D., Mullally, F., Gilliland, R.L., Isaacson, H., Ford, E., Howell, S.B., Borucki, W.J., Haas, M., Huber, D., Steffen, J.H., Thompson, S.E., Quintana, E., Barclay, T., Still, M., Fortney, J., Gautier, T.N., III, Hunter, R., Caldwell, D.A., Ciardi, D.R., Devore, E., Cochran, W., Jenkins, J., **Agol, E.**, Carter, J.A. & Geary, J., *The Astrophysical Journal*, 784, 45 (2014) doi:[10.1088/0004-637X/784/1/45](https://doi.org/10.1088/0004-637X/784/1/45)
  72. "Validation of Kepler's Multiple Planet Candidates. II. Refined Statistical Framework and Descriptions of Systems of Special Interest," Lissauer, J.J., Marcy, G.W., Bryson, S.T., Rowe, J.F., Jontof-Hutter, D., **Agol, E.**, Borucki, W.J., Carter, J.A., Ford, E.B., Gilliland, R.L., Kolbl, R., Star, K.M., Steffen, J.H. & Torres, G., *The Astrophysical Journal*, 784, 44 (2014) doi:[10.1088/0004-637X/784/1/44](https://doi.org/10.1088/0004-637X/784/1/44)
  73. "Evidence for Large Temperature Fluctuations in Quasar Accretion Disks from Spectral Variability," Ruan, J.J., Anderson, S.F., **Dexter, J. & Agol, E.**, *The Astrophysical Journal*, 783, 105 (2014) doi:[10.1088/0004-637X/783/2/105](https://doi.org/10.1088/0004-637X/783/2/105)
  74. "Masses, Radii, and Orbits of Small Kepler Planets: The Transition from Gaseous to Rocky Planets," Marcy, G.W., et al., *The Astrophysical Journal Supplement Series*, 210, 20 (2014) doi:[10.1088/0067-0049/210/2/20](https://doi.org/10.1088/0067-0049/210/2/20)
  75. "Warm Spitzer and Palomar Near-IR Secondary Eclipse Photometry of Two Hot Jupiters: WASP-48b and HAT-P-23b," O'Rourke, J.G., Knutson, H.A., Zhao, M., Fortney, J.J., Burrows, A., **Agol, E.**, Deming, D., Desert, J.-M., Howard, A.M., Lewis, N.K., Showman, A.P. & Todorov, K.O., *The Astrophysical Journal*, 781, 109 (2014) doi:[10.1088/0004-637X/781/2/109](https://doi.org/10.1088/0004-637X/781/2/109)
  76. "A Spitzer Search for Transits of Radial Velocity Detected Super-Earths," Kammer, J.A., Knutson, H.A., Howard, A.W., Laughlin, G.P., Deming, D., Todorov, K.O., Desert, J.-M., **Agol, E.**, Burrows, A., Fortney, J.J., Showman, A.P. & Lewis, N.K., *The Astrophysical Journal*, 781, 103 (2014) doi:[10.1088/0004-637X/781/2/103](https://doi.org/10.1088/0004-637X/781/2/103)
  77. "Three Dimensional Radiative Hydrodynamical Simulations of the Highly Irradiated Short Period

- Exoplanet HD189733b," **Dobbs-Dixon, I. & Agol, E.**, *Monthly Notices of the Royal Astronomical Society*, 435, 3159 (2013) doi:[10.1093/mnras/stt1509](https://doi.org/10.1093/mnras/stt1509)
78. "Transit Timing Observations from Kepler. VIII Catalog of Transit Timing Measurements of the First Twelve Quarters," Mazeh, T., Nachmani, G., Holczer, T., Fabrycky, D.C., Ford, E.B., Sanchis-Ojeda, R., Sokol, G., Rowe, J.F., Zucker, S., **Agol, E.**, Carter, J.A., Lissauer, J.J., Quintana, E.V., Ragozzine, D., Steffen, J.H. & Welsh, W., *The Astrophysical Journal Supplement Series*, 208, 16 (2013) doi:[10.1088/0067-0049/208/2/16](https://doi.org/10.1088/0067-0049/208/2/16)
  79. "Infrared Transmission Spectroscopy of the Exoplanets HD209458b and XO-1b Using the Wide Field Camera-3 on the Hubble Space Telescope," Deming, D., Wilkins, A., McCullough, P., Burrows, A., Fortney, J., **Agol, E.**, **Dobbs-Dixon, I.**, Madhusudhan, N., Crouzet, N., Desert, J.-M., Gilliland, R.L., Haynes, K., Knutson, H.A., Line, M., Magic, Z., Mandell, A.M., Ranjan, S., Charbonneau, D., Clampin, M., Seager, S. & Showman, A.P., *The Astrophysical Journal*, 774, 95 (2013) doi:[10.1088/0004-637X/774/2/95](https://doi.org/10.1088/0004-637X/774/2/95)
  80. "Very Low Mass Stellar and Substellar Companions to Solar-like Stars from MARVELS. IV. A Candidate Brown Dwarf or Low-mass Stellar Companion to HIP 67526," Jiang, P., et al., *The Astronomical Journal*, 146, 65 (2013) doi:[10.1088/0004-6256/146/3/65](https://doi.org/10.1088/0004-6256/146/3/65)
  81. "Secondary Eclipse Photometry of the Exoplanet WASP-5b with Warm Spitzer," Baskin, N.J., Knutson, H.A., Burrows, A., Fortney, J.J., Lewis, N.K., **Agol, E.**, Charbonneau, D., Cowan, N.B., Deming, D., Desert, J.-M., Langton, J., Laughlin, G. & Showman, A.P., *The Astrophysical Journal*, 773, 124 (2013) doi:[10.1088/0004-637X/773/2/124](https://doi.org/10.1088/0004-637X/773/2/124)
  82. "Detection of Substructure in the Gravitationally Lensed Quasar MG0414+0534 Using Mid-infrared and Radio VLBI Observations," **MacLeod, C.L.**, Jones, R., **Agol, E.** & Kochanek, C.S., *The Astrophysical Journal*, 773, 35 (2013) doi:[10.1088/0004-637X/773/1/35](https://doi.org/10.1088/0004-637X/773/1/35)
  83. "Qatar-1: indications for possible transit timing variations," von Essen, C., Schöter, S., **Agol, E.**, & Schmitt, J.H.M.M., *Astronomy & Astrophysics*, 555, 92 (2013) doi:[10.1051/0004-6361/201321407](https://doi.org/10.1051/0004-6361/201321407)
  84. "All Six Planets Known to Orbit Kepler-11 Have Low Densities", Lissauer, J. J., Jontof-Hutter, D., Rowe, J. F., Fabrycky, D. C., Lopez, E. D., **Agol, E.**, Marcy, G. W., Deck, K. M., Fischer, D. A., Fortney, J. J., Howell, S. B., Isaacson, H., Jenkins, J. M., Kolbl, R., Sasselov, D., Short, D. R. & Welsh, W. F., *The Astrophysical Journal*, 770, 131 (2013) doi:[10.1088/0004-637X/770/2/131](https://doi.org/10.1088/0004-637X/770/2/131)
  85. "Warm Spitzer Photometry of Three Hot Jupiters: HAT-P-3b, HAT-P-4b and HAT-P-12b," Todorov, K.O., Deming, D., Knutson, H.A., Burrows, A., Fortney, J.J., Lewis, N.K., Cowan, N.B., **Agol, E.**, Desert, J.-M., Sada, P.V., Charbonneau, D., Laughlin, G., Langton, J. & Showman, A.P., *The Astrophysical Journal*, 770, 102 (2013) doi:[10.1088/0004-637X/770/2/102](https://doi.org/10.1088/0004-637X/770/2/102)
  86. "APOSTLE: Longterm Transit Monitoring and Stability Analysis of XO-2b," **Kundurthy, P.**, Barnes, R., Becker, A.C., **Agol, E.**, Williams, B.F., Gorelick, N. & Rose, A., *The Astrophysical Journal*, 770, 36 (2013) doi:[10.1088/0004-637X/770/1/36](https://doi.org/10.1088/0004-637X/770/1/36)
  87. "Very Low Mass Stellar and Substellar Companions to Solar-like Stars from MARVELS. V. A Low Eccentricity Brown Dwarf from the Driest Part of the Desert, MARVELS-6b," De Lee, N., et al. (45 authors), *The Astronomical Journal*, 145, 155 (2013) doi:[10.1088/0004-6256/145/6/155](https://doi.org/10.1088/0004-6256/145/6/155)
  88. "Kepler-62: A Five-Planet System with Planets of 1.4 and 1.6 Earth Radii in the Habitable Zone," Borucki, W.J., **Agol, E.**, et al. (65 authors), *Science*, 340, 587 (2013) doi:[10.1126/science.1234702](https://doi.org/10.1126/science.1234702)
  89. "A Cautionary Tale: MARVELS Brown Dwarf Candidate Reveals Itself to be a Very Long Period, Highly Eccentric Spectroscopic Stellar Binary," Mack, C.E. et al. (45 authors), *The Astronomical Journal*, 145, 139 (2013) doi:[10.1088/0004-6256/145/5/139](https://doi.org/10.1088/0004-6256/145/5/139)
  90. "Orbital Phase Variations of the Eccentric Giant Planet HAT-P-2b," Lewis, N. K. et al. (22 authors), *The Astrophysical Journal*, 766, 95 (2013) doi:[10.1088/0004-637X/766/2/95](https://doi.org/10.1088/0004-637X/766/2/95)

91. "The Quasiperiodic Automated Transit Search Algorithm," Carter, J. A. & **Agol, E.**, *The Astrophysical Journal*, 765, 132 (2013) doi:[10.1088/0004-637X/765/2/132](https://doi.org/10.1088/0004-637X/765/2/132)
92. "A sub-Mercury-sized exoplanet," Barclay, T. et al. (58 authors), *Nature*, 494, 452 (2013) doi:[10.1038/nature12067](https://doi.org/10.1038/nature12067)
93. "Observations of the WASP-2 System by the APOSTLE Program," Becker, A.C., **Kundurthy, P.**, **Agol, E.**, Barnes, R., Williams, B.F. & Rose, A.E., *The Astrophysical Journal Letters*, 764, L17 (2013) doi:[10.1088/2041-8205/764/1/L17](https://doi.org/10.1088/2041-8205/764/1/L17)
94. "A Search for Exozodiacal Clouds with Kepler," Stark, C.C., Boss, A.P., Weinberger, A.J., Jackson, B.K., Endl, M., Cochran, W.D., Johnson, M., Caldwell, C., **Agol, E.**, Ford, E.B., Hall, J.R., Ibrahim, K.A. & Li, J., *The Astrophysical Journal*, 764, 195 (2013) doi:[10.1088/0004-637X/764/2/195](https://doi.org/10.1088/0004-637X/764/2/195)
95. "APOSTLE: 11 Transit Observations of TrES-3b," **Kundurthy, P.**, Becker, A.C., **Agol, E.**, Barnes, R. & Williams, B., 2013, *The Astrophysical Journal*, 764, 8 (2013) doi:[10.1088/0004-637X/764/1/8](https://doi.org/10.1088/0004-637X/764/1/8)
96. "EXOFAST: A fast exoplanetary fitting suite in IDL," Eastman, J., Gaudi, B. S. & **Agol, E.**, *Publications of the Astronomical Society of the Pacific*, 125, 83 (2013) doi:[10.1086/669497](https://doi.org/10.1086/669497)
97. "Transit timing observations from Kepler - VII. Confirmation of 27 planets in 13 multiplanet systems via transit timing variations and orbital stability," Steffen, J.H., Fabrycky, D.C., **Agol, E.**, Ford, E.B., Morehead, R.C., Cochran, W.D., Lissauer, J.J., Adams, E.R., Borucki, W.J., Bryson, S., Caldwell, D.A., Dupree, A., Jenkins, J.M., Robertson, P., Rowe, J.F., Seader, S., Thompson, S. & Twicken, J.D., *Monthly Notices of the Royal Astronomical Society*, 428, 1077 (2012) doi:[10.1093/mnras/sts090](https://doi.org/10.1093/mnras/sts090)
98. "Very-low-mass Stellar and Substellar Companions to Solar-like Stars from MARVELS. III. A Short-period Brown Dwarf Candidate around an Active G0IV Subgiant," Ma, B. et al. (48 authors), 2013, *The Astronomical Journal*, 145, 20 (2013) doi:[10.1088/0004-6256/145/1/20](https://doi.org/10.1088/0004-6256/145/1/20)
99. "The Neptune-sized Circumbinary Planet Kepler-38b," Orosz, J. A., et al. (31 authors), *The Astrophysical Journal*, 758, 87 (2012) doi:[10.1088/0004-637X/758/2/87](https://doi.org/10.1088/0004-637X/758/2/87)
100. "Kepler-47: A Transiting Circumbinary Multiplanet System," Orosz, J. A., et al. (39 authors), *Science*, 337, 1511 (2012) doi:[10.1126/science.1228380](https://doi.org/10.1126/science.1228380)
101. "Very Low Mass Stellar and Substellar Companions to Solar-like Stars from MARVELS. II. A Short-period Companion Orbiting an F Star with Evidence of a Stellar Tertiary and Significant Mutual Inclination," Fleming, S. W., et al. (62 authors), *The Astronomical Journal*, 144, 72 (2012) doi:[10.1088/0004-6256/144/3/72](https://doi.org/10.1088/0004-6256/144/3/72)
102. "Kepler-36: A Pair of Planets with Neighboring Orbits and Dissimilar Densities," Carter, J. A., **Agol, E.**, et al. (46 authors), 2012, *Science*, 337, 556 (2012) doi:[10.1126/science.1223269](https://doi.org/10.1126/science.1223269)
103. "Rapid Dynamical Chaos in an Exoplanetary System," Deck, K. M., Holman, M. J., **Agol, E.**, Carter, J. A., Lissauer, J. J., Ragozzine, D., & Winn, J. N., *The Astrophysical Journal*, 755, L21 (2012) doi:[10.1088/2041-8205/755/1/L21](https://doi.org/10.1088/2041-8205/755/1/L21)
104. "3.6 and 4.5  $\mu\text{m}$  Phase Curves and Evidence for Non-equilibrium Chemistry in the Atmosphere of Extrasolar Planet HD 189733b," Knutson, H. A., Lewis, N., Fortney, J. J., Burrows, A., Showman, A. P., Cowan, N. B., **Agol, E.**, Aigrain, S., Charbonneau, D., Deming, D., Désert, J.-M., Henry, G. W., Langton, J. & Laughlin, G., *The Astrophysical Journal*, 754, 22 (2012) doi:[10.1088/0004-637X/754/1/22](https://doi.org/10.1088/0004-637X/754/1/22)
105. "The Impact of Circumplanetary Jets on Transit Spectra and Timing Offsets for Hot Jupiters," Dobbs-Dixon, I., **Agol, E.**, & Burrows, A., *The Astrophysical Journal*, 751, 87 (2012) doi:[10.1088/0004-637X/751/2/87](https://doi.org/10.1088/0004-637X/751/2/87)

106. "Very Low Mass Stellar and Substellar Companions to Solar-like Stars from MARVELS. I. A Low-mass Ratio Stellar Companion to TYC 4110-01037-1 in a 79 Day Orbit," Wisniewski, J. P., et al. (45 authors) *The Astronomical Journal*, 143, 107 (2012) doi:[10.1088/0004-6256/143/5/107](https://doi.org/10.1088/0004-6256/143/5/107)
107. "The size of the jet launching region in M87," **Dexter, J.**, McKinney, J. C., & **Agol, E.**, *Monthly Notices of the Royal Astronomical Society*, 421, 1517 (2012) doi:[10.1111/j.1365-2966.2012.20409.x](https://doi.org/10.1111/j.1365-2966.2012.20409.x)
108. "A Two-dimensional Infrared Map of the Extrasolar Planet HD 189733b," **Majeau, C.**, **Agol, E.**, & **Cowan, N. B.** *The Astrophysical Journal Letters*, 747, 20 (2012) doi:[10.1088/2041-8205/747/2/L20](https://doi.org/10.1088/2041-8205/747/2/L20)
109. "Warm Spitzer Observations of Three Hot Exoplanets: XO-4b, HAT-P-6b, and HAT-P-8b," Todorov, K.O., Deming, D., Knutson, H.A., Burrows, A., Sada, P.V., Cowan, N.B., **Agol, E.**, Desert, J.-M., Fortney, J.J., Charbonneau, D., Laughlin, G., Langton, J., Showman, A. P. & Lewis, N. K., *The Astrophysical Journal*, 746, 111 (2012) doi:[10.1088/0004-637X/746/1/111](https://doi.org/10.1088/0004-637X/746/1/111)
110. "Transit Analysis Package: An IDL Graphical User Interface for Exoplanet Transit Photometry," Gazak, J. Z., Johnson, J. A., Tonry, J., Dragomir, D., Eastman, J., Mann, A. W. & **Agol, E.**, *Advances in Astronomy*, id. 697967 (2012) doi:[10.1155/2012/697967](https://doi.org/10.1155/2012/697967)
111. "Kepler and Ground-based Transits of the Exo-Neptune HAT-P-11b," Deming, D., Sada, P.V., Jackson, B., Peterson, S.W., **Agol, E.**, Knutson, H. A., Jennings, D. E., Haase, F. & Bays, K., *The Astrophysical Journal*, 740, 33 (2011) doi:[10.1088/0004-637X/740/1/33](https://doi.org/10.1088/0004-637X/740/1/33)
112. "SDSS-III: Massive Spectroscopic Surveys of the Distant Universe, the Milky Way, and Extra-Solar Planetary Systems," Eisenstein, D. J., Weinberg, D., **Agol, E.**, et al. (244 authors), *The Astronomical Journal*, 142, 72 (2011) doi:[10.1088/0004-6256/142/3/72](https://doi.org/10.1088/0004-6256/142/3/72)
113. "A Spitzer Transmission Spectrum for the Exoplanet GJ 436b, Evidence for Stellar Variability, and Constraints on Dayside Flux Variations," Knutson, H. A.; Madhusudhan, N.; Cowan, N. B.; Christiansen, J. L.; **Agol, E.**; Deming, D.; Désert, J.-M.; Charbonneau, David; Henry, G. W.; Homeier, D.; Langton, J.; Laughlin, G. & Seager, S., *The Astrophysical Journal*, 735, 27 (2011) doi:[10.1088/0004-637X/735/1/27](https://doi.org/10.1088/0004-637X/735/1/27)
114. "Transit Surveys for Earths in the Habitable Zones of White Dwarfs," **Agol, E.** *The Astrophysical Journal Letters*, 731, L31 (2011) doi:[10.1088/2041-8205/731/2/L31](https://doi.org/10.1088/2041-8205/731/2/L31)
115. "APOSTLE Observations of GJ 1214b: System Parameters and Evidence for Stellar Activity," **Kundurthy, P.**, **Agol, E.**, Becker, A. C., Barnes, R., Williams, B. & Mukadam, A., *The Astrophysical Journal*, 731, 123 (2011) doi:[10.1088/0004-637X/731/2/123](https://doi.org/10.1088/0004-637X/731/2/123)
116. "Rotational Variability of Earth's Polar Regions: Implications for Detecting Snowball Planets," **Cowan, N. B.**, Robinson, T., Livengood, T. A., Deming, D., **Agol, E.**, A'Hearn, M. F., Charbonneau, D., Lisse, C. M., Meadows, V. S., Seager, S., Shields, A. L. & Wellnitz, D. D., *The Astrophysical Journal*, 731, 76 (2011) doi:[10.1088/0004-637X/731/1/76](https://doi.org/10.1088/0004-637X/731/1/76)
117. "Zooming into the broad line region of the gravitationally lensed quasar QSO 2237 + 0305 ≡ the Einstein Cross. III. Determination of the size and structure of the C iv and C iii] emitting regions using microlensing," Sluse, D., Schmidt, R., Courbin, F., Hutsemékers, D., Meylan, G., Eigenbrod, A., Anguita, T.; Agol, E. & Wambsganss, J., *Astronomy & Astrophysics*, 528, A100 (2011) doi:[10.1051/0004-6361/201016110](https://doi.org/10.1051/0004-6361/201016110)
118. "The Statistics of Albedo and Heat Recirculation on Hot Exoplanets," **Cowan, N. B.** & **Agol, E.**, *The Astrophysical Journal*, 729, 54 (2011) doi:[10.1088/0004-637X/729/1/54](https://doi.org/10.1088/0004-637X/729/1/54)
119. "MARVELS-1b: A Short-period, Brown Dwarf Desert Candidate from the SDSS-III MARVELS Planet Search," Lee, B. L., et al. (62 authors), *The Astrophysical Journal*, 728, 32 (2011) doi:[10.1088/0004-637X/728/1/32](https://doi.org/10.1088/0004-637X/728/1/32)

120. "Quasar Accretion Disks are Strongly Inhomogeneous," **Dexter, J., & Agol, E.**, *The Astrophysical Journal Letters*, 727, 24 (2011) doi:[10.1088/2041-8205/727/1/L24](https://doi.org/10.1088/2041-8205/727/1/L24)
121. "Secondary Eclipse Photometry of WASP-4b with Warm Spitzer," Beerer, I. M., Knutson, H. A., Burrows, A., Fortney, J. J., **Agol, E.**, Charbonneau, D., Cowan, N. B., Deming, D., Desert, J.-M., Langton, J., Laughlin, G., Lewis, N. K. & Showman, A. P., *The Astrophysical Journal*, 727, 23 (2011) doi:[10.1088/0004-637X/727/1/23](https://doi.org/10.1088/0004-637X/727/1/23)
122. "Warm Spitzer Photometry of the Transiting Exoplanets CoRoT-1 and CoRoT-2 at Secondary Eclipse," Deming, D., et al. 2011, *The Astrophysical Journal*, 726, 95 doi:[10.1088/0004-637X/726/2/95](https://doi.org/10.1088/0004-637X/726/2/95)
123. "A Model for Thermal Phase Variations of Circular and Eccentric Exoplanets," **Cowan, N. B., & Agol, E.**, *The Astrophysical Journal*, 726, 82 (2011) doi:[10.1088/0004-637X/726/2/82](https://doi.org/10.1088/0004-637X/726/2/82)
124. "Exoplanetary Transits of Limb-brightened Lines: Tentative Si IV Absorption by HD 209458b," Schlawin, E., **Agol, E.**, Walkowicz, L. M., Covey, K., & Lloyd, J. P., *The Astrophysical Journal Letters*, 722, 75 (2010) doi:[10.1088/2041-8205/722/1/L75](https://doi.org/10.1088/2041-8205/722/1/L75)
125. "The Climate of HD 189733b from Fourteen Transits and Eclipses Measured by Spitzer," **Agol, E., Cowan, N. B.**, Knutson, H. A., Deming, D., Steffen, J. H., Henry, G. W., & Charbonneau, D., *The Astrophysical Journal*, 721, 1861 (2010) doi:[10.1088/0004-637X/721/2/1861](https://doi.org/10.1088/0004-637X/721/2/1861)
126. "The Submillimeter Bump in Sgr A\* from Relativistic MHD Simulations," **Dexter, J., Agol, E.**, Fragile, P. C., & McKinney, J. C., *The Astrophysical Journal*, 717, 1092 (2010) doi:[10.1088/0004-637X/717/2/1092](https://doi.org/10.1088/0004-637X/717/2/1092)
127. "Transit timing analysis of CoRoT-1b," Csizmadia, S., et al., *Astronomy & Astrophysics*, 510, 94 (2010) doi:[10.1051/0004-6361/200912052](https://doi.org/10.1051/0004-6361/200912052)
128. "The Sizes of the X-ray and Optical Emission Regions of RXJ 1131-1231," Dai, X., Kochanek, C. S., Chartas, G., Kozłowski, S., Morgan, C. W., Garmire, G., & **Agol, E.**, *The Astrophysical Journal*, 709, 278 (2010) doi:[10.1088/0004-637X/709/1/278](https://doi.org/10.1088/0004-637X/709/1/278)
129. "Millimeter Flares and VLBI Visibilities from Relativistic Simulations of Magnetized Accretion Onto the Galactic Center Black Hole," **Dexter, J., Agol, E.**, & Fragile, P. C., *The Astrophysical Journal Letters*, 703, 142 (2009) doi:[10.1088/0004-637X/703/2/L142](https://doi.org/10.1088/0004-637X/703/2/L142)
130. "The 8  $\mu$ m Phase Variation of the Hot Saturn HD 149026b," Knutson, H. A., Charbonneau, D., **Cowan, N. B.**, Fortney, J. J., Showman, A. P., **Agol, E.**, & Henry, G. W., *The Astrophysical Journal*, 703, 769 (2009) doi:[10.1088/0004-637X/703/1/769](https://doi.org/10.1088/0004-637X/703/1/769)
131. "Alien Maps of an Ocean-bearing World," **Cowan, N. B., Agol, E.**, Meadows, V.S., Robinson, T., Livengood, T.A., Deming, D., Lisse, C.M., A'Hearn, M.F., Wellnitz, D.D., Seager, S., Charbonneau, D. & the EPOXI Team, *The Astrophysical Journal*, 700, 915 (2009) doi:[10.1088/0004-637X/700/2/915](https://doi.org/10.1088/0004-637X/700/2/915)
132. "Detection of a Companion Lens Galaxy Using the Mid-Infrared Flux Ratios of the Gravitationally Lensed Quasar H1413+117," MacLeod, C. L., Kochanek, C. S. & **Agol, E.**, *The Astrophysical Journal*, 699, 1578 (2009) doi:[10.1088/0004-637X/699/2/1578](https://doi.org/10.1088/0004-637X/699/2/1578)
133. "Implications of dynamical stability for the detection of Super-Earths via transit timing variation method," Haghhighipour, N., Hinse, T., Steffen, J. & **Agol, E.**, *Geochimica et Cosmochimica Acta Supplement*, 73, 486 (2009) <http://adsabs.harvard.edu/abs/2009GeCAS...73Q.486H>
134. "Spitzer Observations of a Gravitationally Lensed Quasar, QSO 2237+0305," **Agol, E.**, Gogarten, S. M., Gorjian, V. & Kimball, A., *The Astrophysical Journal*, 697, 101 (2009) doi:[10.1088/0004-637X/697/2/1010](https://doi.org/10.1088/0004-637X/697/2/1010)
135. "A Fast New Public Code for Computing Photon Orbits in a Kerr Spacetime," **Dexter, J. & Agol, E.**, *The Astrophysical Journal*, 696, 616 (2009) doi:[10.1088/0004-637X/696/2/1616](https://doi.org/10.1088/0004-637X/696/2/1616)



136. "A Precise Estimate of the Radius of the Exoplanet HD 149026b from Spitzer Photometry," Nutzman, P., Charbonneau, D., Winn, J. N., Knutson, H. A., Fortney, J. J., Holman, M. J. & **Agol, E.**, *The Astrophysical Journal*, 692, 229 (2009) doi:[10.1088/0004-637X/692/1/229](https://doi.org/10.1088/0004-637X/692/1/229)
137. "Spitzer photometry of a transit of HD 149026," Nutzman, P., Charbonneau, D., Winn, J. N., Knutson, H. A., Fortney, J. J., Holman, M. J. & **Agol, E.**, *The Astrophysical Journal*, 692, 229 (2009) doi:[10.1088/0004-637X/692/1/229](https://doi.org/10.1088/0004-637X/692/1/229)
138. "Multi-Wavelength Constraints on the Day-Night Circulation Patterns of HD 189733b," Knutson, H.A., Charbonneau, D., **Cowan, N.B.**, **Agol, E.**, Showman, A.P., Fortney, J.J., Henry, G.W., Everett, M.E. & Allen, L.E., *The Astrophysical Journal*, 690, 822 (2009) doi:[10.1088/0004-637X/690/1/822](https://doi.org/10.1088/0004-637X/690/1/822)
139. "Microlensing variability in the gravitationally lensed quasar QSO 2237+0305  $\equiv$  the Einstein Cross II. Energy profile of the accretion disk," Eigenbrod, A., Courbin, F., Meylan G., **Agol, E.**, Anguita, T., Schmidt, R. W. & Wambsganss, J., *Astronomy & Astrophysics*, 490, 933 (2008) doi:[10.1051/0004-6361:200810729](https://doi.org/10.1051/0004-6361:200810729)
140. "Extending the Model of KH 15D: Estimating the Effects of Forward Scattering and Curvature of the Occulting Ring Edge," **Silvia, D.W.** & **Agol, E.**, *The Astrophysical Journal*, 681, 1377 (2008) doi:[10.1086/588545](https://doi.org/10.1086/588545)
141. "Two-Micron All-Sky Survey J01542930+0053266: a new eclipsing M dwarf binary system," Becker, A.C., **Agol, E.**, Silvestri, N. M., Bochanski, J.J., Laws, C., West, A. A., Basri, G., Belokurov, V., Bramich, D.M., Carpenter, J.M., Challis, P., Covey, K.R., Cutri, R. M., Evans, N.W., Fellhauer, M., Garg, A., Gilmore, G., Hewett, P., Plavchan, P., Schneider, D.P., Slesnick, C.L., Vidrih, S., Walkowicz, L.M. & Zucker, D.B., *Monthly Notices of the Royal Astronomical Society*, 386, 416 (2008) doi:[10.1111/j.1365-2966.2008.13040.x](https://doi.org/10.1111/j.1365-2966.2008.13040.x)
142. "Inverting Phase Functions to Map Exoplanets," **Cowan, N.B.** & **Agol, E.**, *The Astrophysical Journal Letters*, 678, 129 (2008) doi:[10.1086/588545](https://doi.org/10.1086/588545)
143. "Microlensing variability in the gravitationally lensed quasar QSO 2237+0305 the Einstein Cross . I. Spectrophotometric monitoring with the VLT," Eigenbrod, A., Courbin, F., Sluse, D., Meylan, G. & **Agol, E.**, *Astronomy & Astrophysics*, 480, 647 (2008) doi:[10.1051/0004-6361:20078703](https://doi.org/10.1051/0004-6361:20078703)
144. "New Worlds on the Horizon: Earth-Sized Planets Close to Other Stars," Gaidos, E., Haghighipour, N., **Agol, E.**, Latham, D., Raymond, S. & Rayner, J., *Science*, 318, 210 (2007) doi:[10.1126/science.1144358](https://doi.org/10.1126/science.1144358)
145. "Hot Nights on Extrasolar Planets: Mid-IR Phase Variations of Hot Jupiters," **Cowan, N.**, **Agol, E.** & Charbonneau D., *Monthly Notices of the Royal Astronomical Society*, 379, 641 (2007) doi:[10.1111/j.1365-2966.2007.11897.x](https://doi.org/10.1111/j.1365-2966.2007.11897.x)
146. "Discovery of Probable Relativistic Fe Emission and Absorption in the Cloverleaf Quasar H 1413+117," Chartas, G., Eracelous, M., Dai, X., **Agol, E.** & Gallagher, S., *The Astrophysical Journal*, 661, 678 (2007) doi:[10.1086/516816](https://doi.org/10.1086/516816)
147. "A map of the day-night contrast of the extrasolar planet HD 189733b," Knutson, H.A., Charbonneau, D., Allen, L.E., Fortney, J.J., **Agol, E.**, **Cowan, N.B.**, Showman, A.P., Cooper, C.S. & Megeath, S.T., *Nature*, 447, 183 (2007) doi:[10.1038/nature05782](https://doi.org/10.1038/nature05782)
148. "Rounding up the wanderers: optimizing coronagraphic searches for extrasolar planets," **Agol, E.**, *Monthly Notices of the Royal Astronomical Society*, 374, 1271 (2007) doi:[10.1111/j.1365-2966.2006.11232.x](https://doi.org/10.1111/j.1365-2966.2006.11232.x)
149. "A limit on the presence of Earth-mass planets around a Sun-like star," **Agol, E.** & **Steffen, J.H.**, *Monthly Notices of the Royal Astronomical Society*, 374, 941 (2007) doi:[10.1111/j.1365-2966.2006.11213.x](https://doi.org/10.1111/j.1365-2966.2006.11213.x)

150. "Hubble imaging excludes cosmic string lens," **Agol, E.**, Hogan, C. & **Plotkin, R.**, *Physics Review D*, 73, 7302 (2006) doi:[10.1103/PhysRevD.73.087302](https://doi.org/10.1103/PhysRevD.73.087302)
151. "Discovery of a double peaked Fe emission line in the Cloverleaf quasar H 1413+117," Chartas, G., Eracleous, M., Dai, X., **Agol, E.** & Gallagher S. C., *Astronomische Nachrichten*, 327, 1063 (2006) doi:[10.1002/asna.200610693](https://doi.org/10.1002/asna.200610693)
152. "An analysis of the transit times of TrES-1b," **Steffen, J.H.** & **Agol, E.**, *Monthly Notices of the Royal Astronomical Society: Letters*, 364, 96 (2005) doi:[10.1111/j.1745-3933.2005.00113.x](https://doi.org/10.1111/j.1745-3933.2005.00113.x)
153. "Ultracompact AM Canum Venaticorum Binaries from the Sloan Digital Sky Survey: Three Candidates Plus the First Confirmed Eclipsing System," Anderson, S.F., Haggard, D., Homer, L., Joshi, N.R., Margon, B., Silvestri, N.M., Szkody, P., Wolfe, M.A., **Agol, E.**, Becker, A.C., Henden, A., Hall, P.B., Knapp, G.R., Richmond, M.W., Schneider, D.P., Stinson, G., Barentine, J.C., Brewington, H.J., Brinkmann, J., Harvanek, M., Kleinman, S.J., Krzesinski, J., Long, D., Neilsen E.H. Jr., Nitta, A. & Snedden, S.A., *The Astronomical Journal*, 130, 2230 (2005) doi:[10.1086/491587](https://doi.org/10.1086/491587)
154. "On detecting terrestrial planets with timing of giant planet transits," **Agol, E.**, **Steffen, J.**, Sari, R. & Clarkson, W., *Monthly Notices of the Royal Astronomical Society*, 359, 567 (2005) doi:[10.1111/j.1365-2966.2005.08922.x](https://doi.org/10.1111/j.1365-2966.2005.08922.x)
155. "Chandra Observations of the Cloverleaf Quasar H 1413+117: A Unique Laboratory for Microlensing Studies of a LoBal Quasar," Chartas, G., Eracleous, M., **Agol, E.** & Gallagher, S.C., *The Astrophysical Journal*, 606, 78 (2004) doi:[10.1086/382743](https://doi.org/10.1086/382743)
156. "Spectropolarimetry and modeling of the eclipsing T Tauri star KH 15D," **Agol, E.**, Barth, A., Wolf, S. & Charbonneau, D., *The Astrophysical Journal*, 600, 781 (2004) doi:[10.1086/379893](https://doi.org/10.1086/379893)
157. "Microlensing of large sources," **Agol E.**, *The Astrophysical Journal*, 594, 449 (2003) doi:[10.1086/376833](https://doi.org/10.1086/376833)
158. "Finding white dwarfs with transit searches," **Farmer, A.** & **Agol, E.**, *The Astrophysical Journal*, 592, 1151 (2003) doi:[10.1086/375806](https://doi.org/10.1086/375806)
159. "Chandra observations of QSO 2237+0305," Dai, X., Chartas, G., **Agol, E.**, Bautz, M. & Garmire, G., *The Astrophysical Journal*, 589, 100 (2003) doi:[10.1086/374548](https://doi.org/10.1086/374548)
160. "Analytic light curves for planetary transit searches," **Mandel, K.** & **Agol, E.**, *The Astrophysical Journal Letters*, 580, 171 (2002) doi:[10.1086/345520](https://doi.org/10.1086/345520)
161. "Occultation and microlensing," **Agol, E.**, *The Astrophysical Journal*, 579, 430 (2002) doi:[10.1086/342880](https://doi.org/10.1086/342880)
162. "Finding black holes with microlensing," **Agol, E.**, Kamionkowski, M., Koopmans, L.V.E., Blandford, R., *The Astrophysical Journal Letters*, 576, 131 (2002) doi:[10.1086/343758](https://doi.org/10.1086/343758)
163. "X-rays from isolated black holes in the Milky Way," **Agol, E.** & Kamionkowski, M., *Monthly Notices of the Royal Astronomical Society*, 334, 553 (2002) doi:[10.1046/j.1365-8711.2002.05523.x](https://doi.org/10.1046/j.1365-8711.2002.05523.x)
164. "The size of the mid-IR emission region of a quasar inferred from microlensed images of Q2237+0305," Wyithe, S., **Agol, E.** & Fluke, C., *Monthly Notices of the Royal Astronomical Society*, 331, 1041 (2002) doi:[10.1046/j.1365-8711.2002.05252.x](https://doi.org/10.1046/j.1365-8711.2002.05252.x)
165. "Caught in the act; Chandra observations of microlensing of the radio-loud quasar MG J0414+0534," Chartas, G., **Agol, E.**, Eracleous, M., Garmire, G., Bautz, M. & Morgan, N., *The Astrophysical Journal*, 568, 509 (2001) doi:[10.1086/339162](https://doi.org/10.1086/339162)
166. "Constraints on the mass-profile of the lens galaxy G2237+0305," Wyithe S., **Agol, E.**, Turner, E. & Schmidt, R., *Monthly Notices of the Royal Astronomical Society*, 330, 575 (2001) doi:[10.1046/j.1365-8711.2002.05078.x](https://doi.org/10.1046/j.1365-8711.2002.05078.x)
167. "Non-LTE, relativistic accretion disk fits to 3C 273 and the origin of the Lyman limit spectral break," Blaes, O., Hubeny, I., **Agol, E.** & Krolik, J., *The Astrophysical Journal*, 563, 560 (2001) doi:[10.1086/324045](https://doi.org/10.1086/324045)

168. "Non-LTE models and theoretical spectra of accretion disks in active galactic nuclei. IV. Effects of compton scattering and metal opacities," Hubeny, I., Blaes, O., Krolik, J. & **Agol, E.**, *The Astrophysical Journal*, 559, 680 (2001) doi:[10.1086/322344](https://doi.org/10.1086/322344)
169. "Two dimensional hydrodynamic simulations of convection in radiation-dominated accretion disks," **Agol, E.**, Krolik, J., Turner, N. & Stone, J., *The Astrophysical Journal*, 558, 543 (2001) doi:[10.1086/322277](https://doi.org/10.1086/322277)
170. "Mid-Infrared Imaging of the Einstein Cross QSO," **Agol, E.**, Wyithe, S., Jones, B., Blaes, O. & Fluke, C., *Publications of the Astronomical Society of Australia*, 18, 166 (2001) doi:[10.1071/AS01015](https://doi.org/10.1071/AS01015)
171. "Keck mid-infrared imaging of the Einstein cross QSO," **Agol, E.**, Jones, B. & Blaes, O., *The Astrophysical Journal*, 545, 657 (2000) doi:[10.1086/317847](https://doi.org/10.1086/317847)
172. "Predicting caustic crossing high magnification events in Q2237+0305," Wyithe, S., Webster, R., Turner, E., & **Agol, E.**, *Monthly Notices of the Royal Astronomical Society*, 318, 1105 (2000) doi:[10.1046/j.1365-8711.2000.03746.x](https://doi.org/10.1046/j.1365-8711.2000.03746.x)
173. "Sagittarius A\* polarization: no ADAF, low accretion rate, and non-thermal synchrotron emission," **Agol, E.**, *The Astrophysical Journal Letters*, 538, 121 (2000) doi:[10.1086/312818](https://doi.org/10.1086/312818)
174. "Non-LTE models and theoretical spectra of accretion disks in active galactic nuclei. III. integrated spectra for hydrogen-helium disks," Hubeny, I., **Agol, E.**, Blaes, O. & Krolik, J., *The Astrophysical Journal*, 533, 710 (2000) doi:[10.1086/308708](https://doi.org/10.1086/308708)
175. "Viewing the shadow of the black hole at the Galactic center," Falcke, H., Melia, F. & **Agol, E.**, *The Astrophysical Journal Letters*, 528, 13 (2000) doi:[10.1086/312423](https://doi.org/10.1086/312423)
176. "Magnetic stress at the marginally stable orbit: altered disk structure, radiation, and black hole spin evolution," **Agol, E.** & Krolik, J., *The Astrophysical Journal*, 528, 161 (2000) doi:[10.1086/308177](https://doi.org/10.1086/308177)
177. "Imaging a quasar accretion disk with microlensing," **Agol, E.** & Krolik, J., *The Astrophysical Journal*, 524, 49 (1999) doi:[10.1086/307800](https://doi.org/10.1086/307800)
178. "Photon damping of waves in accretion disks," **Agol, E.** & Krolik, J., *The Astrophysical Journal*, 507, 304 (1998) doi:[10.1086/306332](https://doi.org/10.1086/306332)
179. "Polarization from magnetized accretion disks: II. The effects of absorption opacity on faraday rotation," **Agol, E.**, Blaes, O. & Ionescu-Zanetti, C., *Monthly Notices of the Royal Astronomical Society*, 293, 1 (1998) doi:[10.1046/j.1365-8711.1998.01107.x](https://doi.org/10.1046/j.1365-8711.1998.01107.x)
180. "Polarization from magnetized accretion disks in active galactic nuclei," **Agol, E.** & Blaes, O., *Monthly Notices of the Royal Astronomical Society*, 282, 65 (1996) doi:[10.1093/mnras/282.3.965](https://doi.org/10.1093/mnras/282.3.965)
181. "Polarization near the Lyman edge in accretion disk atmosphere models of quasars," Blaes, O. & **Agol, E.**, *The Astrophysical Journal Letters*, 469, L41 (1996) doi:[10.1086/310249](https://doi.org/10.1086/310249)
182. "Polarization during binary microlensing," **Agol, E.**, *Monthly Notices of the Royal Astronomical Society*, 279, 571 (1996) doi:[10.1093/mnras/279.2.571](https://doi.org/10.1093/mnras/279.2.571)
183. "Spectropolarimetric test of the relativistic disk model for the broad H $\alpha$  line of Arp 102b," Antonucci, R., Hurt, T. & **Agol E.**, *The Astrophysical Journal Letters*, 456, 25 (1996) doi:[10.1086/309858](https://doi.org/10.1086/309858)

## Conference proceedings and white papers:

---

1. "A Higher Cadence Subsurvey Located in the Galactic Plane," Lund, M.B., Stassun, K.G., Farihi, J., Agol, E., Rabus, M., Shporer, A., Bell, K.J., white paper on LSST Cadence Optimization, [arXiv:1812.03148](https://arxiv.org/abs/1812.03148)
2. "The Origins Space Telescope: Towards An Understanding of Temperate Planetary Atmospheres," Fortney, J., Kataria, T., Stevenson, K., Zellem, R., Nielsen, E., Cuartas-Restrepo, P., Gaidos, E., Bergin, E., Meixner, M., Kane, S., Leisawitz, D., Fraine, J., Kaltenecker, L., Tanner, A., Lopez-Morales, M., Greene, T., Danchi, W., Stassun, K., Kopparapu, R., Wolf, E., Meshkat, T., Hinkel, N., Pontoppidan, K., Dong, C., Bruno, G., Gelino, D., Airapetian, V., Agol, E., Deming, D., Haqq-Misra, J., Parenteau, N., Lisse, C., Tucker, G., Saxena, P., Wordsworth, R., Blake, G., Curry, S., Berta-Thompson, Z., Fridlund, M., Su, K., Gao, P., Adibekyan, V., Heavens, N., Minniti, D., Rugheimer, S., Rackham, B., Mandt, K., de Val-Borro, M., Robinson, T., White paper submitted to The National Academies of Science, Engineering, and Medicine Exoplanet Science Strategy Committee, [arXiv:1803.07730](https://arxiv.org/abs/1803.07730)
3. "Probing the Orbital and Atmospheric Properties of the TRAPPIST-1 Planets with JWST," Luger, R., Lustig-Yaeger, J., Agol, E., Habitable Worlds 2017: A System Science Workshop, held 13-17 November, 2017 in Laramie, Wyoming. LPI Contribution No. 2042, id.4100 <https://www.hou.usra.edu/meetings/habitableworlds2017/pdf/4100.pdf>  
"Exoplanet Exploration Program Analysis Group (ExoPAG) Report to Paul Hertz Regarding Large Mission Concepts to Study for the 2020 Decadal Survey," Gaudi, B.S., Agol, E., and ExoPAG, Joint summary of PAG reports for NASA Astrophysics, [arXiv:1601.00008](https://arxiv.org/abs/1601.00008)
4. "Enduring Quests-Daring Visions (NASA Astrophysics in the Next Three Decades)," Kouveliotou, C., Agol, E., et al., 2013, [arXiv:1401.3741](https://arxiv.org/abs/1401.3741)
5. "Evaluation of a College Freshman Diversity Research Program," Garner, S., Tremmel, M., Schmidt, S.J., Wisniewski, J.P. & **Agol, E.**, submitted to Astronomy Education Review prior to its termination, [arXiv:1311.5486](https://arxiv.org/abs/1311.5486)
6. "Habitable Planets Around White Dwarfs: an Alternate Mission for the Kepler Spacecraft," Kilic, M., **Agol, E.**, Loeb, A., Maoz, D., Munn, J.A., Gianninas, A., Canton, P. & Barber, S.D., White paper submitted for extension of Kepler Mission [arXiv:1309.0009](https://arxiv.org/abs/1309.0009)
7. "Radiative Models of Sagittarius A\* and M87 from Relativistic MHD Simulations," **Dexter, J., Agol, E.**, Fragile, P. C., & McKinney, J. C. 2012, JOURNAL OF PHYSICS CONFERENCE SERIES, vol. 372, p. 012023
8. "Aspects of Multi-Dimensional Modelling of Substellar Atmospheres," 2011, Helling, C., Pedretti, E., Berdyugina, S., Vidotto, A. A., Beeck, B., Baron, E., Showman, A. P., **Agol, E.**, & Homeier, D., 16TH CAMBRIDGE WORKSHOP ON COOL STARS, STELLAR SYSTEMS, AND THE SUN, vol. 448, p. 403
9. "Finding habitable earths around white dwarfs with a robotic telescope transit survey," **Agol, E.**, Telescopes from Afar, Proceedings of the conference held 28 February - 3 March, 2011 at Waikoloa Beach, Hawai'i. id.25 [http://tfa.cfht.hawaii.edu/papers/agol\\_tfa\\_paper.pdf](http://tfa.cfht.hawaii.edu/papers/agol_tfa_paper.pdf)
10. "A Precise Estimate of the Radius of HD 149026b," 2009, Nutzman, P., Charbonneau, D., Winn, J. N., Knutson, H. A., Fortney, J. J., Holman, M. J., & **Agol, E.**, IAU SYMPOSIUM 253: TRANSITING PLANETS, pp. 466-469
11. "Exoplanet mapping revealed," **Cowan N. B. & Agol E.**, 2009, IAU SYMPOSIUM 253: TRANSITING PLANETS, p. 504
12. "Transits and secondary eclipses of HD 189733 with Spitzer," **Agol E., Cowan N. B., Bushong J.**, Knutson H., Charbonneau D., Deming D. & Steffen J. H., 2009, IAU SYMPOSIUM 253:

TRANSITING PLANETS, p. 209

13. "Transit Timing Observations of the Extrasolar Hot-Neptune Planet GL 436 b," 2009, Stringfellow, G. S., Coughlin, J. L., López-Morales, M., Becker, A. C., Krajci, T., Mezzalana, F., & **Agol, E.**, 15TH CAMBRIDGE WORKSHOP ON COOL STARS, STELLAR SYSTEMS, AND THE SUN, AIP CONFERENCE PROCEEDINGS, vol. 1094, pp. 481-484
14. "High-Accuracy Measurements of Variations in Transit Timing: A New Method for Detecting Terrestrial-Class Extrasolar Planets," 2009, Haghhighipour, N., **Agol, E.**, Eastman, J. D., Ford, E. B., Gaudi, B. S., Holman, M. J., Steffen, J., & Veras, D., ASTRO2010: THE ASTRONOMY AND ASTROPHYSICS DECADAL SURVEY, no. 109
15. "From Discovery to Understanding: Principles for Maximizing Scientific Return on Exoplanet Research," 2009, Ford, E. B., Adams, F. C., **Agol, E.**, Armitage, P., Gaudi, B. S., Haghhighipour, N., Holman, M. J., Laughlin, G., Lin, D. N. C., Malhotra, R., Marcy, G. W., Quillen, A. C., Rasio, F. A., & Sigurdsson, S., ASTRO2010: THE ASTRONOMY AND ASTROPHYSICS DECADAL SURVEY, no. 80
16. "Imaging an Event Horizon: submm-VLBI of a Super Massive Black Hole," 2009, Doeleman, S., **Agol, E.**, Backer, D., Baganoff, F., Bower, G. C., Broderick, A., Fabian, A., Fish, V., Gammie, C., Ho, P., Honman, M., Krichbaum, T., Loeb, A., Marrone, D., Reid, M., Rogers, A., Shapiro, I., Strittmatter, P., Tilanus, R., Weintraub, J., Whitney, A., Wright, M., & Ziurys, L., ASTRO2010: THE ASTRONOMY AND ASTROPHYSICS DECADAL SURVEY, no. 68
17. "Finding and Characterizing SuperEarth Exoplanets Using Transits and Eclipses," 2009, Deming, D., **Agol, E.**, Ford, E., Fortney, J., Greene, T., Holman, M., Knutson, H., Latham, D., Laughlin, G., Sasselov, D., Seager, S., Street, R., & Showman, A., ASTRO2010: THE ASTRONOMY AND ASTROPHYSICS DECADAL SURVEY, no. 63
18. "Increasing the Number of Underrepresented Minorities in Astronomy Through K-12 Education and Public Outreach (Paper II)," 2009, Norman, D., Ernst, D. J., Agueros, M., Anderson, S. F., Baker, A., Burgasser, A., Cruz, K., Gawiser, E., Krishnamurthi, A., Lee, H.-c., Mighell, K., McGruder, C., Norman, D., Sakimoto, P. J., Sheth, K., Soderblom, D., Strauss, M., Walter, D., West, A., **Agol, E.**, Murphy, J., Garner, S., Bellovary, J., Schmidt, S., Cowan, N., Gogarten, S., Stilp, A., Christensen, C., Hilton, E., Haggard, D., Loebman, S., Rosenfield, P., & Munshi, F., ASTRO2010: THE ASTRONOMY AND ASTROPHYSICS DECADAL SURVEY, no. 40
19. "Increasing the Number of Underrepresented Minorities in Astronomy at the Undergraduate, Graduate, and Postdoctoral Levels (Paper I)," 2009, Norman, D., Ernst, D. J., Agueros, M., Anderson, S. F., Baker, A., Burgasser, A., Cruz, K., Gawiser, E., Krishnamurthi, A., Lee, H.-c., Mighell, K., McGruder, C., Norman, D., Sakimoto, P. J., Sheth, K., Soderblom, D., Strauss, M., Walter, D., West, A., **Agol, E.**, Murphy, J., Garner, S., Bellovary, J., Schmidt, S., Cowan, N., Gogarten, S., Stilp, A., Christensen, C., Hilton, E., Haggard, D., Loebman, S., Rosenfield, P., & Munshi, F., ASTRO2010: THE ASTRONOMY AND ASTROPHYSICS DECADAL SURVEY, no. 39
20. "Increasing the Number of Underrepresented Minorities in Astronomy: Executive Summary," 2009, Norman, D., Ernst, D. J., Agueros, M., Anderson, S. F., Baker, A., Burgasser, A., Cruz, K., Gawiser, E., Krishnamurthi, A., Lee, H.-c., Mighell, K., McGruder, C., Norman, D., Sakimoto, P. J., Sheth, K., Soderblom, D., Strauss, M., Walter, D., West, A., **Agol, E.**, Murphy, J., Garner, S., Bellovary, J., Schmidt, S., Cowan, N., Gogarten, S., Stilp, A., Christensen, C., Hilton, E., Haggard, D., Loebman, S., Rosenfield, P., & Munshi, F., ASTRO2010: THE ASTRONOMY AND ASTROPHYSICS DECADAL SURVEY, no. 38
21. "Optimizing Coronagraphic Surveys for Planets," 2008, **Agol, E.**, EXTREME SOLAR SYSTEMS, ASP CONFERENCE SERIES, vol. 398, p. 467

22. "The Multi-object APO Radial-Velocity Exoplanet Large-area Survey (MARVELS)," 2008, Ge, J., Mahadevan, S., Lee, B., Wan, X., Zhao, B., van Eyken, J., Kane, S., Guo, P., Ford, E., Fleming, S., Crepp, J., Cohen, R., Groot, J., Galvez, M. C., Liu, J., **Agol, E.**, Gaudi, S., Ford, H., Schneider, D., Seager, S., Weinberg, D., & Eisenstein, D., *EXTREME SOLAR SYSTEMS, ASP CONFERENCE SERIES*, vol. 398, p. 449
23. "The transit characterization explorer (TRACER)," Clampin M., Charbonneau D., Deming D., Marley M., Seager S., **Agol E.**, Woodgate B. & Kimble R., 2008, *SPIE "ASTRONOMICAL INSTRUMENTATION: SYNERGIES BETWEEN GROUND AND SPACE"*, pp. 7010-56
24. "Observations of Extrasolar Planets During the non-Cryogenic Spitzer Space Telescope Mission," Deming D., **Agol E.**, Charbonneau D., **Cowan N.B.**, Knutson H. & Marengo, M., 2007, *THE SCIENCE OPPORTUNITIES OF THE WARM SPITZER MISSION WORKSHOP. AIP Conference Proceedings*, Vol. 943, pp. 89-100
25. "Developments in Planet Detection using Transit Timing Variations," Steffen J. H. & **Agol E.**, 2007, *TRANSITING EXTRAPOLAR PLANETS WORKSHOP, ASP Conference Series*, Vol. 366, Proceedings of the conference held 25-28 September, 2006 at the Max Planck Institute for Astronomy in Heidelberg, Germany. Edited by C. Afonso, D. Wel Drake, and Th. Henning. San Francisco: Astronomical Society of the Pacific, pp. 158-163
26. "An All Sky Extrasolar Planet Survey with New Generation Multiple Object Doppler Instruments at Sloan Telescope," Ge J., van Eyken J. C., Mahadevan S., Wan X., Zhao B., Hariharan A., Guo P., Dewitt C., Cohen R., Warner C., Fleming S. W., Crepp J., Kane S., Leger F., Pan K., Ford E., Seager S., **Agol E.**, Schneider D. & Shaklan S., 2007, *FIRST LIGHT SCIENCE WITH THE GTC*, Eds. R. Guzman, C. Packham, J. M. Rodríguez-Espinosa & S. Torres-Peimbert, *Revista Mexicana de Astronomia y Astrofísica (Serie de Conferencias)*, vol. 29, pp. 30-36
27. "Detecting and Characterizing Planetary Systems with Transit Timing," Steffen J. H., Gaudi B. S., Ford E. B., **Agol E.** & Holman M. J., 2007, white paper submitted to the EXOPLANET TASK FORCE, 7 pages
28. "Compact Objects and Accretion Disks," Blandford R., **Agol E.**, Broderick A., Heyl J., Koopmans L. & Lee H.-W., 2002, in *ASTROPHYSICAL SPECTROPOLARIMETRY*, Proceedings of the XII Canary Islands Winter School of Astrophysics, Eds. Trujillo-Bueno J., Moreno-Insertis F., Sánchez F., Cambridge, UK: Cambridge University Press, pp. 177-223
29. "Galactic center ADAF ruled out by polarization," **Agol E.**, 2001, in *EXPLOSIVE PHENOMENA IN ASTROPHYSICAL COMPACT OBJECTS, FIRST KIAS ASTROPHYSICS WORKSHOP*, Seoul, Korea, 24-27 May 2000. Melville, NY: American Institute of Physics (AIP), 2001 xv, 404 AIP conference proceedings, vol. 556 Eds. H.-Y. Chang, C.-H. Lee, M. Rho, and I. Yi., pp. 125-131
30. "Thermal Emission from Accretion Disks," Blaes O., Hubeny I., **Agol E.**, Krolik J., 2001, in *JHU/LHEA Workshop on X-Ray Emission from Accretion onto Black Holes*, Eds. Yaqoob T. & Krolik J. H.
31. "The puzzle of the Lyman continuum polarization of QSOs," Shields G. A., **Agol E.** & Blaes O., 2001, in *THE SEVENTH TEXAS-MEXICO CONFERENCE ON ASTROPHYSICS: FLOWS, BLOWS, AND GLOWS*, eds. Lee W. and Torres-Peimbert S., *Revista Mexicana de Astronomia y Astrofísica (Serie de Conferencias)*, vol. 10, pp. 87-95
32. "The shadow of the black hole at the Galactic center," Falcke H., Melia F. & **Agol E.**, 2000, in *COSMIC EXPLOSIONS, 10th Astrophysics Conference*, College Park, Maryland, eds. Holt S. S. & Zhang W. W., *American Institute of Physics Conference Series*, vol. 522, 317-320
33. "Sgr A\*: observations, models, and imaging of the event horizon with VLBI," Falcke H., Markoff S., Biermann P.L., Krichbaum T.P., Melia F., **Agol E.**, Bower G., 2001, in *GALAXIES AND THEIR*

CONSTITUENTS AT THE HIGHEST ANGULAR RESOLUTIONS, Proceedings of IAU Symposium 205, Eds. Schilizzi R., Vogel S., Paresce F., Elvis M., Astronomical Society of the Pacific Conference Series, pp. 28-31

34. "Continuum Spectra of Quasar Accretion Disk Models," **Agol, E.**, Hubeny, I., and Blaes, O., 1997, in *Accretion Processes in Astrophysical Systems: Some Like it Hot!*, eds. Stephen Holt and Timothy Kallman, AIP Conference Proceedings, vol. 431, pp. 175-178
35. "Optical/Ultraviolet Continuum Polarization of AGN Accretion Disks," Blaes O. & **Agol E.**, 1996, Proceedings of IAU Colloquium 163: Accretion Phenomena and Related Outflows, ASP Conference Series, vol. 121, pp. 610-614
36. "Polarization During Caustic Crossing," 1996, **Agol E.**, IAU Symposium 173, Astrophysical Applications of Gravitational Lensing, Eds. Kochanek C.S. & Hewitt J.N., Klumer Academic, Dordrecht, pp. 235-236