Eric Agol

Professor, Dept of Astronomy, University of Washington

Mail:
Box 351580
Seattle, WA 98195

Phone: (206) 543-7106
Email: agol@uw.edu
Web: http://www.astro.washington.edu/agol/

Education:

Undergraduate	University of California, Berkeley	Physics & Math	BA 1992
Graduate	UC Santa Barbara	Physics	PhD 1997

Dissertation title: "The Effects of Magnetic Fields, Absorption, and Relativity on the Polarization of Accretion Disks around Supermassive Black Holes"

Employment:

Postdoc	Johns Hopkins	1997-2000
Chandra Fellow	Caltech	2000-2003
Assistant Professor	University of Washington	2003-2009
Associate Professor	University of Washington	2009-2014
Full Professor	University of Washington	2014-

Selected Research Accomplishments:

Created widely used grid of models for Quasars (Hubeny et al. 2000; Agol 1997)

Proposed experiment for imaging the shadow of the Galactic Center black hole (Falcke, Melia & Agol 2000)

Demonstrated possibility of detection of Earth-mass planets with timing of transiting giant planets (Agol et al. 2005)

Developed technique for creating the first longitudinal map of an extrasolar planet (Knutson et al. 2007; Cowan et al. 2008)

Developed relations for optimizing coronagraphic searches for exoplanets (Agol 2007)

Showed that future multi-band monitoring of exoplanets could be used to find oceans and continents (Cowan et al. 2009)

Developed a technique for detecting quasiperiodic transiting planets (Carter & Agol 2013)

Discovered and characterized 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 the second smallest diameter planet in a star's 'habitable zone', Kepler-62f (Borucki, Agol, et al. 2013, Science)

Predicted, helped discover, and characterized the first self-lensing binary star system, KOI-3278 (Kruse & Agol 2014, Science)

Developed technique for measuring masses of planets precisely from transit timing (Schmitt, Agol et al. 2014; Deck & Agol 2015)

Synergistic Activities:

Pre-MAP: Faculty advisor of the Pre-Major in Astronomy Program at the University of Washington (http://www.astro.washington.edu/premap/), a research program for undergraduates targeting recruiting and retention of underrepresented minorities in STEM disciplines. One hundred students have participated in research through the program.

Code development: Developed computer code for planetary transits which has become widely used by the astronomical community for the discovery and characterization of order one thousand transiting extrasolar planets, including Kepler-62f and Kepler-186f, the two most Earth-like planets in the 'habitable zone' found to date.

Grants obtained while at the University of Washington ($2.8+ million; PI unless noted):

"Imaging a Black Hole," Royalty Research Fellowship, University of Washington, 2004-5, $30k

"Infrared observations of an eclipsing binary T Tauri star," NASA Spitzer Space Telescope Guest Observer Funding Cycle 1, 2004-7, $17k

"A Cosmic String Lens Candidate," NASA Hubble Space Telescope Cycle 14 Guest Observer Proposal, 2005-7, $29k

"Finding Terrestrial Planets with HST," NASA Hubble Space Telescope (HST) Cycle 14 Archival Proposal, 2005-7, $57k

"Measuring thermal emission of extrasolar giant planets with Spitzer," NASA Spitzer Space Telescope Guest Observer Funding, 2005-8, $51k

"The Einstein Cross Quasar: The Hottest Dust Around a Quasar in the Universe," NASA Spitzer Space Telescope Funding Cycle 2, 2005-8, $11k

"Detecting new planets in transiting systems," NASA Graduate Student Research Program (supporting Jason Steffen), 2005-8, $24k, Administrative PI

"HD 189733b: As the World Turns," NASA Spitzer Space Telescope Guest Observer Cycle 3 Funding, 2006-8, $12k to Agol, Co-I

"Imaging a Black Hole," NASA Astrophysics Theory Program, 2006-8, $67k

"CAREER: Prospecting for Planets," NSF CAREER, 2007-14, $791k

"A search for Mars-mass extrasolar planets with Spitzer," NASA Spitzer Space Telescope Guest Observer Funding, 2007-10, $141k

"The Wavelength Dependence of Accretion Disk Structure," NASA Hubble Space Telescope Guest Observer Cycle 14 Funding, 2007-10, $20k, Co-I

"Field Trips for the Pre-Major in Astronomy Program," Astronomy Society of the Pacific SEEDs grant, 09/15/2008-09/15/2009, $2.5k

"Pre-MAP program support," Kenilworth Foundation, 2009-2014, $16.5k

"A novel ray tracing code to connect accretion models with observations of Sgr A* and

AGN (graduate student - Jason Dexter, UW Physics)", NASA NESSF Graduate Fellowship, 2008-11, $90k, Administrative PI

Support for NSF Fellows: Jeremiah Murphy and John Wisniewski, 2008-11, $18k, Administrative PI

"Dynamic Studies of Exoplanet Atmospheres: From Global Properties to Local Physics," NASA Spitzer Space Telescope Exploration Science Guest Observer, 2009-10, PI: Heather Knutson, $100k to Agol

"The Temperature Profiles of Quasar Accretion Disks," HST Guest Observer Funding, 2009-2013, $40k to Agol, Co-I

"National Science Foundation Fellows Symposium," NSF, 2010, $14k, Administrative PI

"The Atmospheric Structure of Giant Planets," HST Guest Observer Funding, 2010-13, PI: Drake Deming, $27k to Agol

Sagan Fellowship for Ian Dobbs-Dixon, NASA/Jet Propulsion Laboratory, $309k, 2009-2012, Administrative PI

"Collaborative Research: Diagnosing the SEEDS of Planet Formation," NSF Astronomy, $543k, 2010-2014, Administrative PI

"Life on the Edge: Planetary Atmospheres in Extreme Environments," NASA/Spitzer JPL, 2011-14, $41k to Agol, Co-I

"Applying a Novel Planet Detection Algorithm to the Kepler Data," (written by graduate student Ben Vega-Westhoff, UW Astronomy), NASA NESSF Graduate Fellowship, 2012-2013, $30k, Administrative PI

Sagan Fellowship for Sarah Ballard, NASA/Jet Propulsion Laboratory, 2012-2014, $228k (to date), Administrative PI

Postdoctoral Fellowship for Brian Lee, Sloan Digital Sky Survey-III, $49k, 2012-2013

"Searching for circumprimary and circumbinary Planets in Kepler data," NASA Astrophysics Data Analysis Program, 2013-15, PI: Nader Haghighoupour, $100k to Agol

"Long-term Dynamics of Kepler Multiple Planet Systems," NASA Origins of Solar Systems, 2013-15, PI: Matt Holman, $94k to Agol

"Detection and masses of super-Earth transiting planets in the Kepler data," NASA Origins of Solar Systems, 2013-15, $268k

NASA Virtual Planetary Laboratory, 2013-18, about $100k to Agol, co-I

"Two Eyes on the Prize: Revealing the Complete Architectures of Planetary Systems through Transit Timing with Kepler and Spitzer," PI: Dan Fabrycky (UW PI: Eric Agol), Program: Warm Spitzer Guest Observer Program, Total budget (to UW): $30k

---

Selected Awards and Appointments:

2011 Miller Visiting Professor, Miller Institute, UC Berkeley

2008 - Distinguished Visiting Scientist at the Spitzer Science Center, Caltech, Pasadena, CA

2007-2012 NSF CAREER award

1997 - UCSB Dissertation Fellowship

1996 - UCSB California Space Grant Fellowship

1992 to 1997 - Regents' Fellowship, University of California, Santa Barbara

1992 - Phi Beta Kappa, University of California, Berkeley

1988 to 1992 - Regents' Scholarship, University of California, Berkeley

---

SERVICE:

Colloquium chair - Fall 2003

Undergraduate Astronomy advisor for research - 2003-2004

Apache Point Observatory Time Allocation Committee member - 2004 to 2006

UW Astronomy Graduate Admissions Committee - 2004 to present (chair in 2012, 2014)

Faculty Advisor for the Pre-Major in Astronomy Program - 2005 to present

American Physical Society Minority Mentor - 2003 to 2004

Committee member for the Institute for Nuclear Theory Senior Fellow search (2010).

University of Washington graduate student committe member for twelve students to date.

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

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.

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

University of Washington representative to the Sloan Digital Sky Survey III Collaboration Council, 2011-present

Faculty Advisory Committee for the Louis Stokes Alliance for Minority Participation, 2011-2013

Panel member for NASA Roadmap Task Force, 2013

Scientific organizing committee for Aspen Center for Physics program "Exoplanets in Multi-body Systems in the Kepler Era," February 2013

Astronomy graduate admissions committee (2005-2013); graduate admissions chair (2012, 2014).

Recent Invited Talks:

2015: University of British Columbia - Astronomy Colloquium; Kavli Institute of Theoretical Physics (KITP) - Friends of Kavli Lecture; UC Santa Barbara - "Physics of Exoplanets: From Earth-sized to Mini-Neptunes" conference talk at KITP

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; Stanford University - Astrophysics seminar.

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.

PhD Students:

Former:

- Jason Steffen: professor at UNLV;
- Nick Cowan: professor at Amherst College;
- Jason Dexter: Sofja Kovalevskaja Prize Fellow (MPE, Munich);

- Praveen Kundurthy: data scientist at Yammer/Microsoft.

Current: Ethan Kruse, Brett Morris, Diana Windemuth.

Postdoctoral mentees:

Current: Sarah Ballard, Sagan Fellow

Former:

- Jeremiah Murphy: NSF Fellow, now professor at Florida State University;
- John Wisniewski: NSF Fellow, now professor at University of Oklahoma;
- Nick Cowan: now professor at Amherst College;
- Brian Lee: now lecturer at Santa Fe College in Florida;
- Ian Dobbs-Dixon: Sagan Fellow, now professor at NYU-Abu Dhabi.

Eric Agol Bibliography

Refereed and submitted journal articles:

1. "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., Desert, J.-M., Fraine, J., Langton, J., Morley, C. & Showman, A.P., submitted to *Astrophysical Journal*, arXiv:1411.7404

2. "3.6 and 4.5 mum 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., Schwatz, J., Agol, E., Cowan, N. B., Deming, D., Désert, J.-M., Fulton, B. J., Howard, A. W., Langton, J., Laughlin, G., Showman, A. B. & Todorov, K., 2015, submitted to *Astrophysical Journal*, arXiv:1505.03158

3. "Measurement of planet masses with transit timing variations due to synodic "chopping" effects," Deck, D.M. & Agol, E., 2015, *Astrophysical Journal*, 802, 116, arXiv:1411.0004

4. "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., García-Hernández, D.A., García Pérez, A.E., Gaudi, B.S., Ge, J., Hearty, F., Ma, B., Majewski, S.R., Mészáros, S., Nidever, D.L., Pan, K., Pepper, J., Pinsonneault, M.H., Schiavon, R.P., Schneider, D.P., Wilson, J.C., Zamora, O., Zasowski, G., 2015, *The Astronomical Journal,* 149, 143

5. "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, Ji, 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., 2014, *Astrophysical Journal*, 795, 167, arXiv:1410.8114

6. "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., 2014, *Astrophysical Journal*, 794, 134, arXiv:1407.1313

7. "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. 2014, *Astrophysical Journal*, 790, 146, arXiv:1202.6328

8. "The 4.5 μm 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., 2014, *Astrophysical Journal*, 790, 53, arXiv:1405.5923

9. "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., 2014, *Astrophysical Journal*, 788, 92, arXiv:1403.6831

10. "KOI-3278: A Self-Lensing Binary Star System," Kruse, E. & Agol, E., 2014, *Science*, 344, 275.

11. "Kepler-210: An active star with at least two planets," Ioannidis, P., Schmitt, J.H.M.M., Avdellidou, Ch., von Essen, C. & Agol, E., 2014, *Astronomy & Astrophysics*, 564, 33

12. "TTVFast: An efficient and accurate code for transit timing inversion problems," Deck, K.M., Agol, E., Holman, M.J. & Nesvorny, D., 2014, *The Astrophysical Journal*, 787, 132, arXiv:1403.1895

13. "Validation of Kepler's Multiple Planet Candidates. III. Light Curve Analysis and Announcement of Hundreds of New Multi-planet Systems," Rowe, J.F., et al., 2014, *The Astrophysical Journal*, 784, 45

14. "Validation of Kepler's Multiple Planet Candidates. II. Refined Statistical Framework and Descriptions of Systems of Special Interest," Lissauer, J.J., et al., 2014, *The Astrophysical Journal*, 784, 44

15. "Evidence for Large Temperature Fluctuations in Quasar Accretion Disks from Spectral Variability," Ruan, J.J., Anderson, S.F., Dexter, J. & Agol, E., 2014, *The Astrophysical Journal*, 783, 105

16. "Masses, Radii, and Orbits of Small Kepler Planets: The Transition from Gaseous to Rocky Planets," Marcy, G.W., et al., 2014, *The Astrophysical Journal Supplement Series*, 210, 20

17. "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., 2014, *The Astrophysical Journal*, 781, 109, arXiv:1310.0011

18. "A Spitzer Search for Transits of Radial Velocity Detected Super-Earths," Kammer, J., et al., 2014, *The Astrophysical Journal*, 781, 103

19. "Three Dimensional Radiative Hydrodynamical Simulations of the Highly Irradiated Short Period Exoplanet HD189733b," Dobbs-Dixon, I., & Agol, E. 2013, *Monthly Notices of the Royal Astronomical Society*, 435, 3159, arXiv:1211.1709

20. "Transit Timing Observations from Kepler. VIII Catalog of Transit Timing Measurements of the First Twelve Quarters," Mazeh, T., et al., 2013, *The Astrophysical Journal Supplement Series*, 208, 16, arXiv:1301.5499

21. "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., et al., 2013, *Astrophysical Journal*, 774, 95, arXiv:1302.1141

22. "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," Jian, P., et al., 2013, *Astronomical Journal*, 146, 65

23. "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., et al., 2013, *Astrophysical Journal*, 773, 124

24. "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., 2013, *Astrophysical Journal*, 773, 35

25. "Qatar-1: indications for possible transit timing variations," von Essen, C., Schöter, S., Agol, E., & Schmitt, J.H.M.M., 2013, *Astronomy & Astrophysics*, 555, 92

26. "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., and Welsh, W. F, 2013, *Astrophysical Journal*, 770, 131, arXiv:1303.0227

27. "Warm Spitzer Photometry of Three Hot Jupiters: HAT-P-3b, HAT-P-4b and HAT-P-12b," Todorov, K.O., et al., 2013, *Astrophysical Journal*, 770, 102, arXiv:1305.0833

28. "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., 2013, *Astrophysical Journal*, 770, 36, arXiv:1304.5713

29. "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., 2013, *Astronomical Journal*, 145, 155, arXiv:1304.2815

30. "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., 2013, *Science*, 340, 587, arXiv:1304.7387

31. "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., 2013, *Astronomical Journal*, 145, 139

32. "The Quasiperiodic Automated Transit Search Algorithm," Carter, J. A., & Agol, E. 2013, *Astrophysical Journal*, 765, 132, arXiv:1210.5136

33. "A sub-Mercury-sized exoplanet," Barclay, T. et al., 2013, *Nature*, 494, 452, arXiv:1305.5587

34. "Orbital Phase Variations of the Eccentric Giant Planet HAT-P-2b," Lewis, N. K. et al., 2013, *Astrophysical Journal*, 766, 95, arXiv:1302.5084

35. "Observations of the WASP-2 System by the APOSTLE Program," Becker, A.C., Kundurthy, P., Agol, E., Barnes, R., Williams, B.F. and Rose, A.E., 2013, *Astrophysical Journal Letters*, 764, L17

36. "A Search for Exozodiacal Clouds with Kepler," Stark, C.C. et al., 2013, *Astrophysical Journal*, 764, 195

37. "APOSTLE: 11 Transit Observations of TrES-3b," Kundurthy, P., Becker, A.C., Agol, E., Barnes, R. and Williams, B., 2013, *Astrophysical Journal*, 764, 8

38. "EXOFAST: A fast exoplanetary fitting suite in IDL," Eastman, J., Gaudi, B. S., & Agol, E. 2013, PASP, 125, 83, arXiv:1206.5798

39. "Transit timing observations from Kepler - VII. Confirmation of 27 planets in 13 multiplanet systems via transit timing variations and orbital stability," Steffen, J. H., et al. 2012, *Monthly Notices of the Royal Astronomical Society*, vol. 428, p. 1077

40. "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., 2013, *Astronomical Journal*, vol. 145, p. 20

41. "The Neptune-sized Circumbinary Planet Kepler-38b," Orosz, J. A., et al. 2012, *Astrophysical Journal*, vol. 758, p. 87

42. "Kepler-47: A Transiting Circumbinary Multiplanet System," Orosz, J. A., et al. 2012, *Science*, vol. 337, p. 1511

43. "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. 2012, *Astronomical Journal*, vol. 144, p. 72

44. "Kepler-36: A Pair of Planets with Neighboring Orbits and Dissimilar Densities," Carter, J. A., Agol, E., et al. 2012, *Science*, vol. 337, p. 556

45. "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. 2012, *Astrophysical Journal*, vol. 755, p. L21

46. "3.6 and 4.5 μm Phase Curves and Evidence for Non-equilibrium Chemistry in the Atmosphere of Extrasolar Planet HD 189733b," Knutson, H. A., et al. 2012, *Astrophysical Journal*, vol. 754, p. 22

47. "The Impact of Circumplantary Jets on Transit Spectra and Timing Offsets for Hot Jupiters," Dobbs-Dixon, I., Agol, E., & Burrows, A. 2012, *Astrophysical Journal*, vol. 751, p. 87

48. "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. 2012, *Astronomical Journal*, vol. 143, p. 107

49. "The size of the jet launching region in M87," Dexter, J., McKinney, J. C., & Agol, E. 2012, *Monthly Notices of the Royal Astronomical Society*, vol. 421, p. 1517

50. "A Two-dimensional Infrared Map of the Extrasolar Planet HD 189733b," Majeau, C., Agol, E., & Cowan, N. B. 2012, *Astrophysical Journal Letters*, vol. 747, p. 20

51. "Warm Spitzer Observations of Three Hot Exoplanets: XO-4b, HAT-P-6b, and HAT-P-8b," Todorov, K. O., et al. 2012, *Astrophysical Journal*, vol. 746, p. 111

52. "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. 2012, *Advances in Astronomy*, vol. 2012, p.

53. "Kepler and Ground-based Transits of the Exo-Neptune HAT-P-11b," Deming, D., et al. 2011, *Astrophysical Journal*, vol. 740, p. 33

54. "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. 2011, *Astronomical Journal*, vol. 142, p. 72

55. "A Spitzer Transmission Spectrum for the Exoplanet GJ 436b, Evidence for Stellar Variability, and Constraints on Dayside Flux Variations," Knutson, H. A., et al. 2011, *Astrophysical Journal*, vol. 735, p. 27

56. "Transit Surveys for Earths in the Habitable Zones of White Dwarfs," Agol, E. 2011, *Astrophysical Journal Letters*, vol. 731, p. 31

57. "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. 2011, *Astrophysical Journal*, vol. 731, p. 123

58. "Rotational Variability of Earth's Polar Regions: Implications for Detecting Snowball Planets," Cowan, N. B., et al. 2011, *Astrophysical Journal*, vol. 731, p. 76

59. "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., et al. 2011, *Astronomy and Astrophysics*, vol. 528, p. A100

60. "The Statistics of Albedo and Heat Recirculation on Hot Exoplanets," Cowan, N. B., & Agol, E. 2011, *Astrophysical Journal*, vol. 729, p. 54

61. "MARVELS-1b: A Short-period, Brown Dwarf Desert Candidate from the SDSS-III Marvels Planet Search," Lee, B. L., et al. 2011, *Astrophysical Journal*, vol. 728, p. 32

62. "Quasar Accretion Disks are Strongly Inhomogeneous," Dexter, J., & Agol, E. 2011, *Astrophysical Journal Letters*, vol. 727, p. 24

63. "Secondary Eclipse Photometry of WASP-4b with Warm Spitzer," Beerer, I. M., et al. 2011, *Astrophysical Journal*, vol. 727, p. 23

64. "Warm Spitzer Photometry of the Transiting Exoplanets CoRoT-1 and CoRoT-2 at Secondary Eclipse," Deming, D., et al. 2011, *Astrophysical Journal*, vol. 726, p. 95

65. "A Model for Thermal Phase Variations of Circular and Eccentric Exoplanets," Cowan, N. B., & Agol, E. 2011, *Astrophysical Journal*, vol. 726, p. 82

66. "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. 2010, *Astrophysical Journal Letters*, vol. 722, p. 75

67. "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. 2010, *Astrophysical Journal*, vol. 721, p. 1861

68. "The Submillimeter Bump in Sgr A* from Relativistic MHD Simulations," Dexter, J., Agol, E., Fragile, P. C., & McKinney, J. C. 2010, *Astrophysical Journal*, vol. 717, p. 1092

69. "Transit timing analysis of CoRoT-1b," Csizmadia, S., et al. 2010, *Astronomy and Astrophysics*, vol. 510, p. 94

70. "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. 2010, *Astrophysical Journal*, vol. 709, p. 278

71. "Millimeter Flares and VLBI Visibilities from Relativistic Simulations of Magnetized Accretion Onto the Galactic Center Black Hole," Dexter, J., Agol, E., & Fragile, P. C. 2009, *Astrophysical Journal Letters*, vol. 703, p. 142

72. "The 8 μm 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. 2009, *Astrophysical Journal*, vol. 703, p. 769

73. "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., EPOXI Team, 2009, *Astrophysical Journal*, vol. 700, p. 915

74. "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. 2009, *Astrophysical Journal*, vol. 699, p. 1578

75. "Implications of dynamical stability for the detection of Super-Earths via transit timing variation method," Haghighipour, N., Hinse, T., Steffen, J., & Agol, E. 2009, *Geochimica et Cosmochimica Acta Supplement*, vol. 73, p. 486

76. "Spitzer Observations of a Gravitationally Lensed Quasar, QSO 2237+0305," Agol, E., Gogarten, S. M., Gorjian, V., & Kimball, A. 2009, *Astrophysical Journal*, vol. 697, p. 1010

77. "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. 2009, *Astrophysical Journal*, vol. 692, p. 229

78. "A Fast New Public Code for Computing Photon Orbits in a Kerr Spacetime," Dexter J., Agol E., 2008, *Astrophysical Journal*, vol. 696, p. 616

79. "Microlensing variability in the gravitationally lensed quasar QSO 2237+0305 ≡ 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., 2008, *Astronomy & Astrophysics*, vol. 490, p. 933

80. "Extending the Model of KH 15D: Estimating the Effects of Forward Scattering and Curvature of the Occulting Ring Edge," Silvia D.W., Agol E., 2008, *Astrophysical Journal*, vol. 681, pp. 1377-1384

81. "Inverting Phase Functions to Map Exoplanets," Cowan N.B., Agol E., 2008, *Astrophysical Journal Letters*, vol. 678, pp. 129-132

82. "*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., 2008, *Astrophysical Journal*, in press, 6 pages

83. "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., 2008, *Astrophysical Journal*, vol. 690, p. 822

84. "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., 2008, *Monthly Notices of the Royal Astronomical Society*, vol. 386 , pp. 416-424

85. "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., 2008, *Astronomy & Astrophysics*, vol. 480, pp. 647-661

86. "New Worlds on the Horizon: Earth-Sized Planets Close to Other Stars," Gaidos E., Haghighipour N., Agol E., Latham D., Raymond S. & Rayner J., 2007, *Science*, vol. 318, pp. 210-213 (invited review paper; roughly equal contributions from each author)

87. "Hot Nights on Extrasolar Planets: Mid-IR Phase Variations of Hot Jupiters," Cowan N., Agol E. & Charbonneau D., 2007, *Monthly Notices of the Royal Astronimical Society*, vol. 379, pp. 641-646

88. "Discovery of Probable Relativistic Fe Emission and Absorption in the Cloverleaf Quasar H 1413+117," 2007, Chartas G., Eracelous M., Dai X., Agol E. & Gallagher S., 2007, *Astrophysical Journal*, vol. 661, pp. 678-692

89. "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., 2007, *Nature*, vol. 447, pp. 183-186 (map was my idea)

90. "Rounding up the wanderers: optimizing coronagraphic searches for extrasolar planets," Agol E., 2007, *Monthly Notices of the Royal Astronomical Society*, vol. 374, pp. 1271-1289

91. "A limit on the presence of Earth-mass planets around a Sun-like star," Agol, E. & Steffen J.H., 2007, *Monthly Notices of the Royal Astronomical Society*, vol. 374, pp. 941-948

92. "Hubble imaging excludes cosmic string lens," Agol E., Hogan C. & Plotkin R., 2006, *Physics Review D*, vol. 73, p. 7302

93. "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., 2006, Astronomische Nachrichten, vol. 327, pp. 1063-1066

94. "An analysis of the transit times of TrES-1b," Steffen J.H. & Agol E., 2005, *Monthly Notices of the Royal Astronomical Society: Letters*, vol. 364, pp. 96-100

95. "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., 2005, *Astronomical Journal*, vol. 130, pp. 2230-2236

96. "On detecting terrestrial planets with timing of giant planet transits," Agol E., Steffen J., Sari R. & Clarkson W., 2005, *Monthly Notices of the Royal Astronomical Society*, vol. 359, pp. 567-579

97. "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., 2004, *Astrophysical Journal*, vol. 606, pp. 78-84

98. "Spectropolarimetry and modeling of the eclipsing T Tauri star KH 15D," Agol E., Barth A., Wolf S. & Charbonneau D., 2004, *Astrophysical Journal*, vol. 600, pp. 781-788

99. "Microlensing of large sources," Agol E., 2003, *Astrophysical Journal*, vol. 594, pp. 449-455

100. "Finding white dwarfs with transit searches," Farmer A. & Agol E., 2003, *Astrophysical Journal*, vol. 592, pp. 1151-1155

101. "Chandra observations of QSO 2237+0305," Dai X., Chartas G., Agol E., Bautz M. & Garmire G., 2003, *Astrophysical Journal*, vol. 589, pp. 100-110

102. "Analytic light curves for planetary transit searches," Mandel, K. & Agol, E., 2002, *Astrophysical Journal Letters*, vol. 580, pp. 171-175

103. "Occultation and microlensing," Agol, E., 2002, *Astrophysical Journal*, vol. 579, pp. 430-436

104. "Finding black holes with microlensing," Agol, E., M. Kamionkowski, L. Koopmans, R. Blandford, 2002, *Astrophysical Journal Letters*, vol. 576, pp. 131-135

105. "X-rays from isolated black holes in the Milky Way," Agol, E. & M. Kamionkowski, 2002, *Monthly Notices of the Royal Astronomical Society*, vol. 334, pp. 553-562

106. "The size of the mid-IR emission region of a quasar inferred from microlensed images of Q2237+0305," Wyithe S., Agol E. & Fluke C., 2002, *Monthly Notices of the Royal Astronomical Society*, vol. 331, pp. 1041-1052

107. "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., 2001, *Astrophysical Journal*, vol. 568, pp. 509-521

108. "Constraints on the mass-profile of the lens galaxy G2237+0305," Wyithe S., Agol E., Turner E. & Schmidt R., 2001, *Monthly Notices of the Royal Astronomical Society*, vol. 330, pp. 575-582

109. "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., 2001, *Astrophysical Journal*, vol. 563, pp. 560-568

110. "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., 2001, *Astrophysical Journal*, vol. 559, pp. 680-702

111. "Two dimensional hydrodynamic simulations of convection in radiation-dominated accretion disks," Agol E., Krolik J., Turner N. & Stone J., 2001, *Astrophysical Journal*, vol. 558, pp. 543-552

112. "Mid-Infrared Imaging of the Einstein Cross QSO," Agol E., Wyithe S., Jones B., Blaes O. & Fluke C., 2001, Publications of the Astronomical Society of Australia, vol. 18, pp. 166-168

113. "Keck mid-infrared imaging of the Einstein cross QSO," Agol E., Jones B. & Blaes O., 2000, *Astrophysical Journal*, vol. 545, pp. 657-663

114. "Predicting caustic crossing high magnification events in Q2237+0305," Wyithe S., Webster R., Turner E., & Agol E., 2000, *Monthly Notices of the Royal Astronomical Society*, vol. 318, pp. 1105-1119

115. "Sagittarius A* polarization: no ADAF, low accretion rate, and non-thermal synchrotron emission," Agol, E., 2000, *Astrophysical Journal Letters*, vol. 538, pp. 121-124

116. "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., 2000, *Astrophysical Journal*, vol. 533, pp. 710-728

117. "Viewing the shadow of the black hole at the Galactic center," H. Falcke, F. Melia & Agol, E., 2000, *Astrophysical Journal Letters*, vol. 528, pp. 13-16 (all calculations in paper were carried out by me, despite being last author)

118. "Magnetic stress at the marginally stable orbit: altered disk structure, radiation, and black hole spin evolution," Agol E. & Krolik J., 2000, *Astrophysical Journal*, vol. 528, pp. 161-170

119. "Imaging a quasar accretion disk with microlensing," Agol E. & Krolik J., 1999, *Astrophysical Journal*, vol. 524, pp. 49-64

120. "Photon damping of waves in accretion disks," Agol E. & Krolik J., 1998, *Astrophysical Journal*, vol. 507, pp. 304-315

121. "Polarization from magnetized accretion disks: II. The effects of absorption opacity on faraday rotation," Agol E., Blaes O., & C. Ionescu-Zanetti, 1998, *Monthly Notices of the Royal Astronomical Society*, vol. 293, pp. 1-17

122. "Polarization from magnetized accretion disks in active galactic nuclei," Agol E. & Blaes O., 1996, *Monthly Notices of the Royal Astronomical Society*, vol. 282, pp. 965-976

123. "Polarization near the Lyman edge in accretion disk atmosphere models of quasars," Blaes O. & Agol E., 1996, *Astrophysical Journal Letters*, vol. 469, pp. 41-44

124. "Polarization during binary microlensing," Agol E., 1996, *Monthly Notices of the Royal Astronomical Society*, vol. 279, pp. 571-580

125. "Spectropolarimetric test of the relativistic disk model for the broad Hα line of Arp 102b," R. Antonucci, T. Hurt & Agol E., 1996, *Astrophysical Journal Letters*, vol. 456, pp. 25-28 (all data analysis was carried out by me)

Conference proceedings and white papers:

1. "Enduring Quests-Daring Visions (NASA Astrophysics in the Next Three Decades)," Kouveliotou, C., Agol, E., et al., 2013, arXiv:1401.3741

2. "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

3. "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

4. "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

5. "Exoplanet mapping revealed," Cowan N. B. & Agol E., 2009, IAU Symposium 253: Transiting Planets, p. 504

6. " 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

7. "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., Mezzalira, F., & Agol, E., 15th Cambridge Workshop on Cool Stars, Stellar Systems, and the Sun, AIP Conference Proceeings, vol. 1094, pp. 481-484

8. "High-Accuracy Measurements of Variations in Transit Timing: A New Method for Detecting Terrestrial-Class Extrasolar Planets," 2009, Haghighipour, 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

9. "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., Haghighipour, 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

10. "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., Weintroub, J., Whitney, A., Wright, M., & Ziurys, L., astro2010: The Astronomy and Astrophysics Decadal Survey, no. 68

11. "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

12. "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

13. "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

14. "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

15. "Optimizing Coronagraphic Surveys for Planets," 2008, Agol, E., Extreme Solar Systems, ASP Conference Series, vol. 398, p. 467

16. "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

17. "The transit characterization explorere (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

18. "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

19. "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. Weldrake, and Th. Henning. San Francisco: Astronomical Society of the Pacific, pp. 158-163

20. "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. Guzmn, C. Packham, J. M. Rodríguez-Espinosa & S. Torres-Peimbert, Revista Mexicana de Astronoma y Astrofísica (Serie de Conferencias), vol. 29, pp. 30-36

21. "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

22. "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

23. "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 p. AIP conference proceedings, vol. 556 Eds. H.-Y. Chang, C.-H. Lee, M. Rho, and I. Yi., pp. 125-131

24. "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.

25. "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 Astrofisica (Serie de Conferencias), vol. 10, pp. 87-95

26. "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 Physcs Conference Series, vol. 522, p. 317-320

27. "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

28. "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

29. "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

30. "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