

David E. Trilling

Curriculum Vitae (13 September 2011)

Department of Physics and Astronomy
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Personal:

Born 24 Apr 1972; United States citizenship; married to Leah Mundell; children born 2/2005 and 12/2007

Education:

Ph.D.: 1999
Planetary Science
Lunar and Planetary Laboratory/Dept. of Planetary Sciences
University of Arizona (USA)

A.B. (*cum laude*): 1994
Earth and Planetary Sciences and Astronomy and Astrophysics
Harvard University (USA)

Research focus:

Origin and evolution of stellar and planetary systems and planets

Positions:

Assistant Professor, Northern Arizona University (2008–)
Assistant Astronomer (Research Faculty), University of Arizona (2004–2008)
Lecturer, University of Pennsylvania (2003–2004)
Postdoctoral Researcher, University of Pennsylvania (2000–2004)
Postdoctoral Researcher, UCO/Lick Observatory (1999–2000)
Graduate student, Lunar and Planetary Laboratory, University of Arizona (1995–1999)
Max Planck Society Fellow, Max-Planck-Institut für Aeronomie, Germany (1994–1995)
NASA Summer Intern, PGGUR Program, NASA Ames Research Center (1993)
Caltech Summer Undergraduate Research Fellow (1992, 1993)

Observing experience:

Spitzer Space Telescope; Hubble Space Telescope; Herschel Space Observatory; W. M. Keck Telescopes (10 meters); Large Binocular Telescope (2×8.4 meters); Subaru (8 meters); Gemini (8 meters); MMT (6.5 meters); Magellan (6.5 meters); NOAO Mayall and Blanco telescopes (4 meters); UKIRT (3.8 meters); NASA's IRTF (3 meters); Bart Bok telescope (2.3 meters); NOAO/KPNO 2.1 meter telescope; Vatican Advanced Technology Telescope (1.8 meters); Mt. Bigelow Kuiper Telescope (1.6 meters); Lick Observatory Nickel telescope (1 meter); Kitt Peak, CTIO 0.9 meter telescopes; NAU's Barry Lutz and NURO telescopes

Professional service:

Graduate coordinator, NAU Physics and Astronomy department (2010–)
Member, University of Arizona Observatories TAC (2009–)
Hubble Space Telescope TAC (2006, 2011)
Member, *Spitzer* Space Telescope TAC (2009)
Member, NASA Planetary Data System Small Bodies Node Advisory Council (2008–2011)
Member, *Spitzer* Space Telescope Cryogenic Mission Close-out Review Board (2008–)

Chair, NOAO Solar System TAC (2007–)
Gemini 2007B special TAC
NSF Planetary Astronomy review panel (2007)
NOAO Solar System TAC (2005–)

Reviewer for: Astronomy & Astrophysics; The Astronomical Journal; The Astrophysical Journal; The Astrophysical Journal Letters; Nature; Science; Icarus; New Astronomy; MNRAS; Planetary and Space Science; NASA's Origins Program; NASA's Planetary Geology and Geophysics Program; NASA's Outer Planet Research Program; NASA's Planetary Astronomy Program; NASA's New Frontiers Program; National Science Foundation; Austrian Academy of Sciences; Israel Science Foundation; Blackwell Publishing (textbooks)

Awards:

“Most promising new scholar,” NAU, 2011
Mentor for Laurie Urban, “Most promising undergraduate student researcher,” 2011, NAU
“Educator of influence” for Laurie Urban, NAU 2011 Gold Axe winner
1998 Gerard P. Kuiper Memorial Award for outstanding graduate student at LPL
Thomas Temple Hoopes Prize for outstanding senior thesis, Harvard University (1994)
Derek Bok Center Certificate of Distinction in Teaching (1993)
Harvard College Scholarship (1992 – 1994)
National Merit Scholarship (1990 – 1994)

Memberships:

PI of “Explore NEOs,” a 500-hour Warm Spitzer Exploration Science project
CoI on “TNOs are cool” Herschel Key Programme team
Member of Science Team on NEOCam (proposed NASA Discovery mission, selected for technology development)
Spitzer Warm Mission Solar System Science Working Group
LSST Solar System Science Working Group
MIPS (Multiband Imaging Photometer for *Spitzer*) Instrument Team
Bernstein et al. HST/ACS deep Kuiper Belt observations program team
Deep Ecliptic Survey team
Near Infrared Coronagraphic Instrument (NICI – for Gemini South) Science Team
Consultant for NASA's Gravity Probe B
American Astronomical Society
Division of Planetary Sciences of American Astronomical Society

Advising and supervising experience:

Postdocs:

Cesar Fuentes (NAU: 2010–)
Cristina Thomas (NAU: 2009–)
Michael Mueller (UA, co-supervised: 2007–2008; presently HIFI Calibration Scientist, SRON, Netherlands Institute for Space Research)

Graduate students:

Brian Burt (NAU: 2010–)
Dagmara Oszkiewicz (NAU/University of Helsinki: 2010–2011)
John Kistler (NAU: 2009–2011)
Marie Enga (NAU: 2008–2010; presently in U. Arkansas PhD program)
Nick Siegler (UA, co-supervised: 2005–2007; presently manager at JPL)
Peter Allen (Penn, co-supervised: 2001–2004; presently adjunct professor at Penn)

Thesis committees:

Brian Burt (chair) (NAU: 2010–2012)

Christine Atkins (NAU: 2010–2012)
Dary Ruiz (NAU: 2010–2012)
Dan Hanselman (NAU: 2010–2012)
John Kistler (chair) (NAU: 2009–2011)
Dana Parsons (NAU: 2009–2011)
Andy Peirce (NAU: 2009–2011)
Heidi Larson (NAU: 2009–2011)
Kate McLaughlin (NAU: 2009–2011)
Marie Enga (chair) (NAU: 2008–2010)
Wes Fraser (University of Victoria/external dissertation committee member: 2008)

Undergraduate students:

Tyler Linder (Eastern Illinois University/NAU REU student: 2011)
Daniel Feldman (CUNY Staten Island/NAU REU student: 2011)
Sarah Jones (NAU undergraduate research student: 2009–2011)
Laurie Urban (NAU undergraduate research student: 2008–2011)
Eric Petersen (Simon Fraser University/NAU REU student: 2010)
Dustin Hickey (Colby College/NAU REU student: 2009)
Colin Fitzgerald (University of Colorado/NAU REU student: 2009)
Alberto Jimenez (U. Puerto Rico-Mayagüez/NASA PGGUR undergraduate research student: 2008)
Richard Crudo (UA undergraduate research student: 2005–2007)
Jennifer Donovan (Franklin & Marshall undergrad supervised at Penn: 2001)

Other:

Alex Hagen (computer programmer, 2010–2011)

Teaching experience:

Physics 525 (“Scientific communications”), NAU, Fall, 2010
Physics 535 (“Data analysis and error analysis”), NAU, Spring, 2010; Fall, 2011
Physics 333W (“Advanced Lab”), NAU, Spring, 2011
Astronomy 183 (“Life in the Universe”), NAU, Fall, 2008–Spring, 2010 (four semesters)
Astronomy 184L (“Life in the Universe Laboratory”), NAU, Fall, 2008–Fall, 2009 (three semesters)
Astronomy 6 (“Life in the Universe”), U. Pennsylvania, Spring, 2004
Astronomy 6 (“Life in the Universe”), U. Pennsylvania, Spring, 2003
Astronomy 1 (“Survey of the Universe”), U. Pennsylvania, Spring, 2002
Astronomy 1 (“Survey of the Universe”), U. Pennsylvania, Summer, 2001
Planetary Sciences Lab 109, Spring, 1997, U. Arizona (teaching assistant)
Planetary Sciences 105-2H, Fall, 1996, U. Arizona (teaching assistant)
Earth and Planetary Sciences 100b, Spring, 1993, Harvard (teaching fellow)

Invited Talks:

American Astronomical Society
California Institute of Technology
Canadian Institute for Theoretical Astrophysics
Carnegie Institute of Washington (Department of Terrestrial Magnetism)
Columbia University
Dominion Astrophysical Observatory
University of Florida
Glo Helin Commemorative Workshop on Near Earth Asteroids, Caltech
Harvard-Smithsonian Center for Astrophysics
University of Hawai‘i
Lowell Observatory
Lunar and Planetary Institute (Houston)
Michigan Technological University

NASA Ames Research Center (Center for Star Formation Studies)
NOAO/Dark Energy Camera meeting
Northern Arizona University
Observatoire de la Côte d’Azur
San Jose State University
Space Telescope Science Institute
University of Arizona
University of Washington
University of Wisconsin

Public lectures and outreach activities:

“The history of the Solar System: How did we get here?”, Flagstaff Festival of Science, 2009
Volunteer judge for Southern Arizona Regional Science and Engineering Fair (SARSEF), 2008
“Planetary systems around binary stars: In search of Luke Skywalker’s Tatooine,” given to the Arizona Astronomy Board, April, 2007
“To the edge of the Solar System: Exploring the Kuiper Belt,” given to the Rittenhouse Astronomical Society, Philadelphia (PA), November, 2002
“Planetary systems – a home away from home,” given at the Flower and Cook Observatory, Malvern (PA), February, 2002
“Try this at home!” given at Lick Observatory Summer Visitors Program, Mt. Hamilton (CA), July, 2000
“Our Solar System, Other Solar Systems,” given at Lick Observatory Summer Visitors Program, Mt. Hamilton (CA), August, 1999

Consultant for Sally Ride Science (children’s science publication series, focusing especially on girls in science) (2007)

Long-standing relationship with Molly Bass’ fifth grade classroom (Mill Valley, California) (2006–present)

Consultant for *Earth & Sky* radio show (2004–present)

Numerous appearances in various media, including radio (NPR affiliates) and television news programs (1998–present)

Articles about my work have appeared in Science (News of the week); Astronomy; space.com; Sky & Telescope; Science News; CNN; The New York Times; Knight-Ridder newspapers; New Scientist; San Francisco Chronicle; starwars.com; BBC; Fox News; spaceref.com; MSNBC; National Geographic; slashdot.org; Los Angeles Times; Christian Science Monitor; USA Today; The Planetary Report; National Public Radio (NPR); and numerous regional media.

Grants:

“DECam: NEO: A sensitive, wide-field search for near-Earth objects” (CoI)	\$209,109
NASA Near Earth Object Observations (1/1/12 – 12/31/13) (pending)	
“Finding interior Earth objects in STEREO data” (CoI)	\$211,652
NASA Near Earth Object Observations (1/1/12 – 12/31/14) (pending)	
“Near Earth objects serendipitously detected in archival Spitzer data” (PI)	\$150,424
NASA Near Earth Object Observations (1/1/12 – 12/31/14) (pending)	
“Physical characterization of the near-Earth object population” (CoI)	\$362,341
NASA Near Earth Object Observations and Planetary Astronomy (1/1/12 – 12/31/14) (pending)	
“CAREER: Data mining the Solar System” (PI)	\$798,498
NSF CAREER program (1/1/12 – 12/31/16) (pending)	
“IRAC reflectances of resonant KBOs and scattered disk objects” (CoI)	\$93,000
Spitzer Science Center (9/1/11 – 8/30/13)	
“Trans-neptunian objects in WFC3 archival fields” (CoI)	\$120,000
Space Telescope Science Institute (9/1/11 – 8/30/13)	
“Physical characterization of near-Earth asteroids: Backup targets for the OSIRIS-REx asteroid sample return mission” (CoI)	\$27,000
Spitzer Science Center (7/1/10 – 6/30/12)	
“IRAC reflectances of hot classical KBOs and scattered disk objects” (CoI)	\$107,650
Spitzer Science Center (7/1/10 – 6/30/12)	
“The peculiar object P/2010 A2 (LINEAR)” (CoI)	\$10,000
Spitzer Science Center (7/1/10 – 6/30/12)	
“Ground-based optical and near infrared photometry of Centaurs and KBOs in support of Spitzer Space Telescope data” (CoI)	\$483,249
NASA Planetary Astronomy (1/1/2010 – 12/31/2014)	
“A photometry catalog of stars within 130 pc serendipitously observed by Spitzer” (CoI)	\$186,374
NASA Astrophysics Data Analysis (1/1/2010 – 12/31/2012)	
“The faint tail of the asteroid brightness distribution observed with the Spitzer Space Telescope” (CoI)	\$168,405
NASA Planetary Mission Data Analysis Program (1/1/2010 – 12/31/2012)	
“The master sample of Spitzer debris disk measurements” (CoI)	\$329,571
NASA Astrophysics Data Analysis (1/1/2010 – 12/31/2012)	
“Supplemental funding request to NEOO: Optical photometry at MRO in support of the Warm Spitzer NEO program” (Science PI)	\$91,200
NASA Near Earth Object Observations (1/1/2010 – 12/31/2011)	
“IRAC Reflectances of Cold Classical KBOs and Centaurs” (CoI)	\$145,000
Spitzer Space Telescope (6/2009 – 5/2012)	
“The Warm Spitzer NEO survey: Exploring the history of the inner Solar System and near Earth space” (PI)	\$580,000
Spitzer Space Telescope (1/2009 – 12/2011)	
“An archival search for faint KBOs” (PI)	\$75,000
Hubble Space Telescope (9/2008 – 8/2010)	

“The sizes, albedos, and comae of Centaurs” (PI)	\$77,560
<i>Spitzer</i> Science Center (6/2008 – 5/2011)	
“The <i>Spitzer</i> Asteroid Catalog III: The Pan-STARRS 1 era” (PI)	\$50,000
<i>Spitzer</i> Science Center (6/2008 – 5/2010)	
“IRS observations of debris disks: Studying the global properties of debris disks with a complete <i>Spitzer</i> sample” (TC)	12.0 hours
<i>Spitzer</i> Science Center (3/2008 – 4/2009)	
This Guaranteed Time program is equivalent to ~\$50,000	
“DDT proposal in support of <i>Spitzer</i> Warm Mission observations of Near Earth Objects” (PI)	\$5220
<i>Spitzer</i> Science Center (5/2008 – 4/2011)	
“Studies of the Kuiper Belt using large telescopes” (PI)	\$134,000
NASA Planetary Astronomy (1/2008 – 12/2010)	
“TNOs are cool: A Survey of the Transneptunian Region” <i>Herschel</i> Key Programme (CoI)	\$882,359
<i>Herschel</i> Science Center (2008–2012)	
“The whole picture: Characterizing debris disks with KIN, <i>Spitzer</i> , and BLINC” NASA Keck Interferometry Key Project (CoI)	\$108,000
Michelson Science Center (2008–2009)	
“Automating the small (<2 meters) Steward telescopes” (Co-PI)	\$270,000
Funding committed by institutional partners	
“DDT observations of five Mars Trojan asteroids” (PI)	\$8,845
<i>Spitzer</i> Science Center (2008–2010)	
“A global view of the asteroid belt derived from the <i>Spitzer</i> Asteroid Catalog” (PI)	\$121,262
NASA Planetary Geology and Geophysics (1/2008 – 12/2010)	
“Debris disks in tight binary systems” (Technical contact – TC)	17.6 hours
<i>Spitzer</i> Science Center (7/2007 – 6/2008)	
This Guaranteed Time program is equivalent to ~\$70,000	
“Regoliths on small asteroids: Testing hypotheses with <i>Spitzer</i> ” (PI)	\$34,340
<i>Spitzer</i> Science Center (7/2007 – 6/2010)	
“IRAC reflectances of KBOs, Centaurs, and Trojan asteroids” (CoI)	\$27,850
<i>Spitzer</i> Science Center (7/2007 – 6/2010)	
“The <i>Spitzer</i> Asteroid Catalog II: 10,000 more asteroids” (PI)	\$49,935
<i>Spitzer</i> Science Center (10/2007 – 9/2009)	
“Probing planetary system formation with <i>Spitzer</i> : Debris disks around early F stars” (TC)	20.2 hours
<i>Spitzer</i> Science Center	
This Guaranteed Time program is equivalent to ~\$80,000	
“The <i>Spitzer</i> Asteroid Catalog” (PI)	\$99,881
<i>Spitzer</i> Science Center (10/2006 – 9/2008)	
“Completing the Census of Debris Disks around Nearby Stars” (CoI)	\$34,204
<i>Spitzer</i> Science Center (6/2006 – 5/2009)	
“Surface compositions of KBOs, Centaurs, and low albedo asteroids: Constraints from IRAC reflectance measurements” (CoI)	\$26,000

	<i>Spitzer</i> Science Center (6/2005 – 5/2008)	
“Search for companions to known asteroids using archived images from ACS and WFPC” (CoI)		\$10,000
	Space Telescope Science Institute/Hubble Space Telescope (7/2005 – 6/2008)	
“Accretion in the Kuiper Belt: The Deep Ecliptic Survey” (PI)		\$115,394
	National Science Foundation (6/2004 – 5/2008)	
“Recovery of three faint Kuiper Belt Objects discovered with HST (PI)		\$33,678
	Space Telescope Science Institute/Hubble Space Telescope (6/2004 – 5/2007)	
AAS Small Research Grant (PI)		\$2400
	American Astronomical Society (1/2003 – 12/2003)	
AAS Small Research Grant		\$2400
	American Astronomical Society (1/2002 – 12/2002)	
NASA Graduate Student Research Program grant (PI)		\$22,000
	NASA (1998 – 1999)	
National Science Foundation Graduate Research Fellowship (PI)		\$45,000
	NSF (1995 – 1998)	

Publications

Refereed Journals:

- C. A. Thomas, **D. E. Trilling**, & A. S. Rivkin, “Space weathering of small Koronis family asteroids in the SDSS moving object catalog,” *Icarus*, submitted
- J. L. Kistler, **D. E. Trilling**, C. A. Thomas, M. Mueller, A. W. Harris, B. Bhattacharya, W. F. Bottke, S. Chesley, M. Delbo, J. P. Emery, G. Fazio, J. L. Hora, A. Mainzer, B. Penprase, H. A. Smith, T. B. Spahr, & J. A. Stansberry, “ExploreNEOs IV: The bulk density of Near Earth Object (85938) 1999 DJ4,” *AJ*, submitted
- Fuentes, C., **Trilling, D. E.**, & Holman, M. J., “Dynamically excited outer Solar System objects in the Hubble Space Telescope archive,” *ApJ*, in press
- C. A. Thomas, **D. E. Trilling**, J. P. Emery, M. Mueller, J. L. Hora, L. A. M. Benner, B. Bhattacharya, W. F. Bottke, S. Chesley, M. Delbo, G. Fazio, A. W. Harris, A. Mainzer, M. Mommert, A. Morbidelli, B. Penprase, H. A. Smith, T. B. Spahr, & J. A. Stansberry, “ExploreNEOs V: Average albedo by taxonomic complex in the near-Earth asteroid population,” *AJ*, 142, 85 (2011)
- A. Sanchez-Lavega et al. (34 co-authors), “Long-term evolution of the aerosol debris cloud produced by the 2009 impact on Jupiter,” *Icarus*, 214, 462 (2011)
- Buie, M. W., **Trilling, D. E.**, Wasserman, L. H., & Crudo, R. A., “A large and faint photometric catalog on the ecliptic,” *ApJS*, 194, 40 (2011)
- D. A. Oszkiewicz, K. Muinonen, E. Bowell, **D. Trilling**, A. Penttila, T. Pieniluoma, L. H. Wasserman, & M.-T. Enga, “Online multi-parameter phase-curve fitting and application to a large corpus of asteroid photometric data,” *JQSRT*, 112, 1919 (2011)
- M. Mueller, M. Delbo, J. L. Hora, **D. E. Trilling**, B. Bhattacharya, W. F. Bottke, S. Chesley, J. P. Emery, G. Fazio, A. W. Harris, A. Mainzer, M. Mommert, B. Penprase, H. A. Smith, T. B. Spahr, J. A. Stansberry, & C. A. Thomas, “ExploreNEOs III: Physical characterization of 65 potential spacecraft target asteroids,” *AJ*, 141, 109 (2011)
- C. A. Thomas, A. S. Rivkin, **D. E. Trilling**, M. Enga, & J. A. Grier, “Space weathering of small Koronis family members,” *Icarus*, 212, 158 (2011)
- A. S. Rivkin, C. A. Thomas, **D. E. Trilling**, M. Enga, & J. A. Grier, “Ordinary chondrite-like colors in small Koronis family members,” *Icarus*, 211, 1294 (2011)
- A. W. Harris, M. Mommert, J. L. Hora, M. Mueller, **D. E. Trilling**, B. Bhattacharya, W. F. Bottke, S. Chesley, M. Delbo, J. P. Emery, G. Fazio, A. Mainzer, B. Penprase, H. A. Smith, T. B. Spahr, J. A. Stansberry, & C. A. Thomas, “ExploreNEOs II: The accuracy of the Warm Spitzer near-Earth object survey,” *AJ*, 141, 75 (2011)
- N. D. Stock, K. Y. L. Su, W. Liu, P. M. Hinz, G. H. Rieke, M. Marengo, K. R. Stapelfeldt, D. C. Hines, & **D. E. Trilling**, “The structure of the β Leonis debris disk,” *ApJ*, 724, 1238 (2010)
- D. E. Trilling**, C. I. Fuentes, & M. J. Holman, “The inclination of faint TNOs,” *ApJL*, 724, L22 (2010)
- C. I. Fuentes, M. J. Holman, **D. E. Trilling** & P. Protopapas, “Trans-Neptunian Objects with Hubble Space Telescope ACS/WFC,” *AJ*, 722, 1290 (2010)
- Krist, J. E., Stapelfeldt, K. R., Bryden, G., Rieke, G. H., Su, K. Y. L., Chen, C. C., Beichman, C. A., Hines, D. C., Rebull, L. M., Tanner, A., **Trilling, D. E.**, Clampin, M., & Gáspár, A., “HST and Spitzer Observations of the HD 207129 Debris Ring,” *AJ*, 140, 1051 (2010)
- D. E. Trilling**, M. Mueller, J. L. Hora, A. W. Harris, B. Bhattacharya, W. F. Bottke, S. Chesley, M.

- Delbo, J. P. Emery, G. Fazio, A. Mainzer, B. Penprase, H. A. Smith, T. B. Spahr, J. A. Stansberry, & C. A. Thomas, “ExploreNEOs I: Description and first results from the Warm Spitzer NEO Survey,” *AJ*, 140, 770 (2010)
- T. L. Lim et al. (34 co-authors), “TNOs are Cool: A Survey of the Trans-Neptunian Region III. Thermophysical properties of 90482 Orcus and 136472 Makemake,” *A&A*, 518, L148 (2010)
- E. Lellouch et al. (34 co-authors), “TNOs are Cool: A Survey of the Trans-Neptunian Region II. The thermal lightcurve of (136108) Haumea,” *A&A*, 518, L147 (2010)
- T. G. Müller et al. (34 co-authors), “TNOs are Cool: A Survey of the Trans-Neptunian Region I. Results from the Herschel Science Demonstration Phase (SDP),” *A&A*, 518, L146 (2010)
- A. A. S. Gulbis, J. L. Elliot, E. R. Adams, S. D. Benecchi, M. W. Buie, **D. E. Trilling**, & L. H. Wasserman, “Unbiased Inclination Distributions for Objects in the Kuiper Belt,” *AJ*, 140, 350 (2010)
- D. W. Koerner, S. Kim, **D.E. Trilling**, H. Larson, A. Cotera, K.R. Stapelfeldt, Z. Wahhaj, S. Fajardo-Acosta, D. Padgett, and D. Backman, “New Debris Disk Candidates around 49 Nearby Stars,” *ApJL*, 710, 26 (2010)
- P. A. Abell et al. (200+ co-authors), “The LSST Science Book,” <http://arxiv.org/abs/0912.0201>
- G. Bryden, C. A. Beichman, J. M. Carpenter, G. H. Rieke, K. R. Stapelfeldt, M. W. Werner, A. M. Tanner, S. M. Lawler, M. C. Wyatt, **D. E. Trilling**, K. Y. L. Su, M. Blaylock, and J. A. Stansberry, “Planets and Debris Disks: Results from a Spitzer/MIPS Search for IR Excess,” *ApJ*, 705, 1226 (2009)
- Müller, T. G., Lellouch, E., Bönhardt, H., Stansberry, J., Barucci, A., Crovisier, J., Delsanti, A., Doressoundiram, A., Dotto, E., Duffard, R., Fornasier, S., Groussin, O., Gutiérrez, P. J., Hainaut, O., Harris, A. W., Hartogh, P., Hestroffer, D., Horner, J., Jewitt, D., Kidger, M., Kiss, C., Lacerda, P., Lara, L., Lim, T., Mueller, M., Moreno, R., Ortiz, J.-L., Rengel, M., Santos-Sanz, P., Swinyard, B., Thomas, N., Thirouin, A., **Trilling, D.**, “TNOs are Cool: A Survey of the Transneptunian Region,” *EM&P*, 105, 209, (2009)
- Jones, R. L., Chesley, S. R., Connolly, A. J., Harris, A. W., Ivezic, Z., Knezevic, Z., Kubica, J., Milani, A., **Trilling, D. E.**, “Solar System Science with LSST,” *EM&P*, 105, 101 (2009)
- Dalle Ore, C. M., Barucci, M. A., Emery, J. P., Cruikshank, D. P., Dalle Ore, L. V., Merlin, F., Alvarez-Candal, A., de Bergh, C., **Trilling, D. E.**, Perna, D., Fornasier, S., Mastrapa, R. M. E., & Dotto, E., “Composition of KBO (50000) Quaoar,” *A&A*, 501, 349 (2009)
- Gáspár, A., Rieke, G. H., Su, K. Y. L., Balog, Z., **Trilling, D.**, Muzzerole, J., Apai, D., Kelly, B. C., “The Low Level of Debris Disk Activity at the Time of the Late Heavy Bombardment: A Spitzer Study of Praesepe,” *ApJ*, 697, 1578 (2009)
- Abell, P., Benner, L. A.M., Chapman, C. R., Chesley, S., Ivezic, Z., Jones, L., Morrison, D., Stuart, J. S., **Trilling, D. E.**, “Surveying the inner Solar System,” *Astro2010: The Astronomy and Astrophysics Decadal Survey*, Science White Papers, no. 113 (2009)
- Trilling, D. E.**, Mueller, M., Hora, J. L., Fazio, G. G., Spahr, T., Stansberry, J. A., Smith, H. A., Chesley, S. R., & Mainzer, A. K. 2008 “Diameters and albedos of three sub-kilometer Near Earth Objects derived from Spitzer observations,” *ApJL*, 683L, 199
- Su, K. Y. L., Rieke, G. H., Stapelfeldt, K. R., Smith, P. S., Bryden, G., Chen, C. H., & **Trilling, D. E.** 2008, “The Exceptionally Large Debris Disk around γ Ophiuchi,” *ApJL*, 679L, 125
- Trilling, D. E.**, Bryden, G., Beichman, C. A., Rieke, G. H., Su, K. Y. L., Stansberry, J. A., Blaylock, M., Stapelfeldt, K. R., Beeman, J. W., & Haller, E. E. 2008, “Debris disks around Sun-like stars,” *ApJ*, 674, 1086

- Stansberry, J., Grundy, W., Brown, M., Cruikshank, D., Spencer, J., **Trilling, D.**, & Margot, J.-L. 2008, “Physical properties of Kuiper Belt Objects and Centaurs: *Spitzer* Space Telescope constraints,” in *The Kuiper Belt* (Tucson: University of Arizona Press), forthcoming (astro-ph/0702538)
- Moro-Martin, A., Wyatt, M. C., Malhotra, R., & **Trilling, D. E.** 2008, “Extra-Solar Kuiper Belt dust disks,” in *The Kuiper Belt* (Tucson: University of Arizona Press), forthcoming (astro-ph/07033830)
- Trilling, D. E.**, Rivkin, A. S., Stansberry, J. A., Spahr, T. B., Crudo, R. A., & Davies, J. K. 2007, “Albedos and diameters of three Mars Trojan asteroids,” *Icarus*, 192, 442
- Rivkin, A. S., **Trilling, D. E.**, Thomas, C. A., DeMeo, F., Spahr, T. B., & Binzel, R. P. 2007, “Composition of the L5 Mars Trojans: Neighbors, not Siblings,” *Icarus*, 192, 434
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