Jean-Luc Margot

University of California, Los Angeles, 595 Charles Young Drive East, Los Angeles, CA 90095

Academic Positions

Professor, Dept. of Physics and Astronomy, UCLA, 2013-present.
Professor, Dept. of Earth, Planetary, and Space Sciences, UCLA, 2013-present.
Associate Professor, Dept. of Physics and Astronomy, UCLA, 2010-2013.
Associate Professor, Dept. of Earth and Space Sciences, UCLA, 2009-2013.
Member, Institute of Geophysics and Planetary Physics, 2009-present.
Associate Professor, Department of Astronomy, Cornell University, 2008.
Assistant Professor, Department of Astronomy, Cornell University, 2004-2008.
Postdoctoral Fellow, Caltech, 2001-2003.
Postdoctoral Research Associate, Arecibo Observatory, 1999-2001.
Graduate Research Assistant, Department of Astronomy, Cornell University, 1994-1999.
Erasmus Fellow, Electromagnetics Institute, Technical University of Denmark, 1993.

Education

Ph.D., Astronomy and Space Sciences, Cornell University, May 1999.
Thesis: Lunar topography from Earth-based radar interferometric mapping.

B.S., Electrical Engineering, Université Catholique de Louvain, Belgium, June 1993.
Thesis: Measurement of atmospheric water content from satellite radiometry.

Honors and Awards

Gordon Lecturer, 50th anniversary celebrations of the Arecibo Observatory, 2013.
AAS Division for Planetary Sciences Urey prize, 2004.
O.K. Earl prize fellow in Planetary Science, Caltech, 2001.
Graduated with "Grande Distinction", Université Catholique de Louvain, 1993.
European Union Erasmus Fellow, Technical University of Denmark, January-June 1993.

Teaching Experience

Instructor, EPSS 298 Celestial Mechanics, Spring '12, UCLA.
Instructor, EPSS 200E Planetary Origins, Winter '12, UCLA.
Instructor, M 285 Planet Formation and Evolution, Spring '10, UCLA.
Instructor, EPSS 3 Astrobiology, Fall '09, '10, '11, '12, '13, UCLA.
Instructor, EPSS 9 Solar System and Planets, S09, W10, S11, W13, W14, UCLA.
Instructor, EPSS 298 Classic Papers in Planetary Science, Winter '11, Spring '13, UCLA.
Instructor, EPSS 495 Teaching Earth and Space Sciences, Fall '12, UCLA.
Guest lecturer, ENVIRONM 10 Introduction to Environmental Science, '10, UCLA.
Instructor, ASTRO 102 Our Solar System, Spring '05, '06, '07, '08, Cornell University.
Instructor, ASTRO 578 Planet Formation and Evolution, Fall '06, '08, Cornell University.
Instructor, ASTRO 621 Planetary Radar Astronomy, Spring '06, Cornell University.
Instructor, ASTRO 671 Classic Papers in Planetary Science, Fall '07, Cornell University.
Guest lecturer, COMM 276 Cases in Comm. and Social Influence, '07, '08, Cornell University.

Publications

Citation metrics are available at Thomson Reuters and Google scholar.

S. R. Chesley and 15 co-authors. Orbit and Bulk Density of the OSIRIS-REx Target Asteroid (101955) Bennu. *Icarus, submitted*.

M. W. Busch, W. F. Brisken, L. A. M. Benner, M. Brozovic, J. D. Giorgini, **J. L. Margot**, M. C. Nolan, P. A. Taylor, E. S. Howell, C. Magri. Arecibo/VLBA Radar Observations of Contact Binary Near-Earth Asteroid 2003 UV11. *Icarus, submitted*.

S. J. Peale, **J. L. Margot**, S. A. Hauck, S. C. Solomon. Effects of core-mantle and tidal torques on Mercury's spin axis orientation. *Icarus* **231**, 206, 2014.

P. A. Taylor and **J. L. Margot**. Tidal End States of Binary Asteroid Systems with a Nonspherical Component. *Icarus* **229**, 418, 2014.

M. C. Nolan and 10 co-authors. Shape Model and Surface Properties of the OSIRIS-REx Target Asteroid (101955) Bennu from Radar and Lightcurve Observations. *Icarus* **226**, 629, 2013.

S. Naidu*, **J. L. Margot**, M. W. Busch, P. A. Taylor, M. C. Nolan, M. Brozovic, L. A. M. Benner, J. D. Giorgini, C. Magri. Radar Imaging and Physical Characterization of Near-Earth Asteroid (162421) 2000 ET70. *Icarus* **226**, 323, 2013.

S. A. Hauck II, **J. L. Margot**, S. C. Solomon, R. J. Phillips, C. L. Johnson, F. G. Lemoine, E. Mazarico, T. J. McCoy, S. Padovan, S. J. Peale, M. E. Perry, D. E. Smith, M. T. Zuber. The curious case of Mercury's internal structure. *Journal of Geophysical Research* **118**, 1204, 2013.

J. Fang* and **J. L. Margot**. Are Planetary Systems Filled to Capacity? A Study Based on *Kepler* Results. *Astrophysical Journal* **767**, 115, 2013.

J. Fang* and **J. L. Margot**. Architecture of Planetary Systems Based on *Kepler* Data: Number of Planets and Coplanarity. *Astrophysical Journal* **761**, 92, 2012.

J. L. Margot, S. J. Peale, S. C. Solomon, S. A. Hauck II, F. D. Ghigo, R. F. Jurgens, M. Yseboodt, J. D. Giorgini, S. Padovan, D. B. Campbell. Mercury's moment of inertia from spin and gravity data. *Journal of Geophysical Research* **117**, E00L09, 2012.

J. Fang*, **J. L. Margot**, P. Rojo. Orbits, Masses, and Evolution of Main Belt Triple (87) Sylvia. *Astronomical Journal* **144**, 70, 2012.

C. R. Nugent*, **J. L. Margot**, S. R. Chesley, D. Vokrouhlický. Detection of Semi-Major Axis Drifts in 54 Near-Earth Asteroids: New Measurements of the Yarkovsky Effect. *Astronomical Journal* **144**, 60, 2012.

L. A. Sromovsky and 16 co-authors. Episodic bright and dark spots on Uranus. *Icarus* **220**, 6, 2012.

J. Fang* and **J. L. Margot**. Predicting Planets in *Kepler* Multi-Planet Systems. *Astrophysical Journal* **751**, 23, 2012.

D. E. Smith and 16 co-authors. Gravity Field and Internal Structure of Mercury from MESSENGER. *Science* **336**, 214, 2012.

M. Zuber and 25 co-authors. Topography of the Northern Hemisphere of Mercury from MESSENGER Laser Altimetry. *Science* **336**, 217, 2012.

J. Fang* and **J. L. Margot**. The Role of Kozai Cycles in Near-Earth Binary Asteroids. *Astronomical Journal* **143**, 59, 2012.

J. Fang* and **J. L. Margot**. Binary Asteroid Encounters with Terrestrial Planets: Timescales and Effects. *Astronomical Journal* **143**, 25, 2012.

J. Fang* and **J. L. Margot**. Near-Earth Binaries and Triples: Origin and Evolution of Spin-Orbital Properties. *Astronomical Journal* **143**, 24, 2012.

M. Brozovic and 22 co-authors. Radar and optical observations and physical modeling of triple near-Earth Asteroid (136617) 1994 CC. *Icarus* **216**, 241, 2011.

C. Magri and 24 co-authors. Radar and Photometric Observations and Shape Modeling of Contact Binary Near-Earth Asteroid (8567) 1996 HW1. *Icarus* **214**, 210, 2011.

J. Fang*, **J. L. Margot**, M. Brozovic, M. C. Nolan, L. A. M. Benner, P. A. Taylor. Orbits of Near-Earth Asteroid Triples 2001 SN263 and 1994 CC: Properties, Origin, and Evolution. *Astronomical Journal* **141**, 154, 2011.

M. W. Busch and 12 co-authors. Radar Observations and the Shape of Near-Earth Asteroid 2008 EV5. *Icarus* **212**, 649-660, 2011.

P. A. Taylor* and **J. L. Margot**. Binary Asteroid Systems: Tidal End States and Estimates of Material Properties. *Icarus* **212**, 661-676, 2011.

P. Rojo and **J. L. Margot**. Mass and density of B-type asteroid (702) Alauda. *Astrophysical Journal* **727**, 69, 2011.

P. A. Taylor* and **J. L. Margot**. Tidal Evolution of Close Binary Asteroid Systems. *Celestial Mechanics and Dynamical Astronomy* **108**, 315-338, 2010.

D. E. Smith and 16 co-authors. The Equatorial Shape and Gravity Field of Mercury from MESSENGER Flybys 1 and 2. *Icarus* **209**, 88-100, 2010.

M. Brozovic, L. A. M. Benner, C. Magri, S. J. Ostro, D. J. Scheeres, J. D. Giorgini, M. C. Nolan, **J. L. Margot**, R. F. Jurgens, R. Rose. Radar Observations and a Physical Model of Contact Binary Asteroid 4486 Mithra. *Icarus* **208**, 207-220, 2010.

M. Yseboodt, **J. L. Margot**, S. J. Peale. Analytical model of the long-period forced longitude librations of Mercury. *Icarus* **207**, 536-544, 2010.

S. J. Ostro, C. Magri, L. A. M. Benner, J. D. Giorgini, M. C. Nolan, A. A. Hine, M. W. Busch, **J. L. Margot**. Radar imaging of Asteroid 7 Iris. *Icarus* **207**, 285-294, 2010.

J. L. Margot and J. D. Giorgini. Probing general relativity with radar astrometry in the inner solar system. *Relativity in Fundamental Astronomy: Dynamics, Reference Frames, and Data Analysis, Proceedings of the International Astronomical Union, IAU Symposium*, **261**, p. 183-188, 2010.

J. L. Margot. A Mercury orientation model including non-zero obliquity and librations. *Celestial Mechanics and Dynamical Astronomy* **105**, 329-336, 2009.

J. J. Kavelaars and 17 co-authors. The Canada-France ecliptic plane survey - L3 data release: The orbital structure of the Kuiper Belt. *Astronomical Journal* **137**, 4917-4935, 2009.

M. Brozovic and 10 co-authors. Radar observations and a physical model of Asteroid 4660 Nereus, a prime space mission target. *Icarus* **201**, 153-166, 2009.

S. J. Peale, **J. L. Margot**, M. Yseboodt. Resonant forcing of Mercury's libration in longitude. *Icarus* **199**, 1-8, 2009.

L. A. M. Benner and 10 co-authors. Near-Earth asteroid surface roughness depends on compositional class. *Icarus* **198**, 294-304, 2008.

J.-M. Petit, J. J. Kavelaars, B. J. Gladman, **J. L. Margot**, P. D. Nicholson, R. L. Jones, J. Wm. Parker, M. L. Ashby, A. Campo Bagatin, P. Benavidez, J. Coffey, P. Rousselot, O. Mousis, P. A. Taylor. The Extreme Kuiper Belt Binary 2001 QW322. *Science* **322**, 432, 2008.

M. W. Busch and 10 co-authors. Physical properties of near-Earth Asteroid (33342) 1998 WT24. *Icarus* **195**, 614-621, 2008.

M. K. Shepard and 16 co-authors. Multi-wavelength observations of Asteroid 2100 Ra-Shalom. *Icarus* **193**, 20-38, 2008.

B. A. Campbell, D. B. Campbell, **J. L. Margot**, R. R. Ghent, M. Nolan, J. Chandler, L. M. Carter, N. J. S. Stacy. Focused 70-cm Wavelength Radar Mapping of the Moon. *IEEE Trans. Geoscience and Remote Sensing* **45**, 4032–4042, 2007.

M. W. Busch and 15 co-authors. Physical modeling of near-Earth Asteroid (29075) 1950 DA. *Icarus* **190**, 608-621, 2007.

J. L. Margot, S. J. Peale, R. F. Jurgens, M. A. Slade, I. V. Holin. Large Longitude Libration of Mercury Reveals a Molten Core. *Science* **316**, 710-714, 2007.

P. A. Taylor*, **J. L. Margot**, D. Vokrouhlický, D. J. Scheeres, P. Pravec, S. C. Lowry, A. Fitzsimmons, M. C. Nolan, S. J. Ostro, L. A. M. Benner, J. D. Giorgini, C. Magri. Spin Rate of Asteroid (54509) 2000 PH5 Increasing due to the YORP Effect. *Science* **316**, 274-277, 2007.

S. C. Lowry and 10 co-authors. Direct Detection of the Asteroidal YORP Effect. *Science* **316**, 272-274, 2007.

S. J. Peale, M. Yseboodt, **J. L. Margot**. Long Period Forcing of Mercury's Libration in Longitude. *Icarus* **187**, 365-373, 2007.

C. Magri, S. J. Ostro, D. J. Scheeres, M. C. Nolan, J. D. Giorgini, L. A. M. Benner, **J. L. Margot**. Radar observations and a physical model of Asteroid 1580 Betulia. *Icarus* **186**, 152-177, 2007.

S. J. Ostro, **J. L. Margot**, L. A. M. Benner, J. D. Giorgini, D. J. Scheeres, E. G. Fahnestock, S. B. Broschart, J. Bellerose, M. C. Nolan, C. Magri, P. Pravec, P. Scheirich, R. Rose, R. F. Jurgens, E. M. De Jong, S. Suzuki. Radar Imaging of Binary Near-Earth Asteroid (66391) 1999 KW4. *Science* **314**, 1276-1280, 2006.

D. J. Scheeres, E. G. Fahnestock, S. J. Ostro, **J. L. Margot**, L. A. M. Benner, S. B. Broschart, J. Bellerose, J. D. Giorgini, M. C. Nolan, C. Magri, P. Pravec, P. Scheirich, R. Rose, R. F. Jurgens, E. M. De Jong, S. Suzuki. Dynamical Configuration of Binary Near-Earth Asteroid (66391) 1999 KW4. *Science* **314**, 1280-1283, 2006.

D. B. Campbell, B. A. Campbell, L. M. Carter, **J. L. Margot**, N. J. S. Stacy. No evidence for thick deposits of ice at the lunar south pole. *Nature* **443**, 835-837, 2006.

J. K. Harmon, M. C. Nolan, **J. L. Margot**, D. B. Campbell, L. A. M. Benner, J. D. Giorgini. Radar observations of Comet P/2005 JQ5 (Catalina). *Icarus* **184**, 285-288, 2006.

M. K. Shepard, **J. L. Margot**, C. Magri, M. C. Nolan, J. Schlieder, B. Estes, S. J. Bus, E. L. Volquardsen, A. S. Rivkin, L. A. M. Benner, J. D. Giorgini, S. J. Ostro, M. W. Busch. Radar and infrared observations of binary near-Earth Asteroid 2002 CE26. *Icarus* **184**, 198-210, 2006.

L. A. M. Benner, M. C. Nolan, S. J. Ostro, J. D. Giorgini, D. P. Pray, A. W. Harris, C. Magri, **J. L. Margot**. Near-Earth Asteroid 2005 CR37: Radar images and photometry of a candidate contact binary. *Icarus* **182**, 474-481, 2006.

J. A. Stansberry, W. M. Grundy, **J. L. Margot**, D. P. Cruikshank, J. P. Emery, G. H. Rieke, D. E. Trilling. The Albedo, Size, and Density of Binary Kuiper Belt Object (47171) 1999 TC36. *Astrophysical Journal* **643**, 556-566, 2006.

M. C. Nolan, J. K. Harmon, E. S. Howell, D. B. Campbell, **J. L. Margot**. Detection of large grains in the coma of Comet C/2001 A2 (LINEAR) from Arecibo radar observations. *Icarus* **181**, 432-441, 2006.

M. Yseboodt* and **J. L. Margot**. Evolution of Mercury's Obliquity. *Icarus* **181**, 327-337, 2006.

P. Pravec and 56 co-authors. Photometric survey of binary near-Earth asteroids. *Icarus* **181**, 69-93, 2006.

S. J. Ostro and 12 co-authors. Radar observations of Itokawa in 2004 and improved shape estimation. *Meteoritics and Planetary Science* **40**, 1563-1574, 2005.

P. D. Nicholson, R. G. French, D. B. Campbell, **J. L. Margot**, M. C. Nolan, G. J. Black, H. J. Salo. Radar imaging of Saturn's rings. *Icarus* **177**, 32-62, 2005.

S. J. Ostro and 15 co-authors. Radar observations of asteroid 25143 Itokawa (1998 SF36). *Meteoritics and Planetary Science* **39**, 407-424, 2004.

S. R. Chesley, S. J. Ostro, D. Vokrouhlický, D. Capek, J. D. Giorgini, M. C. Nolan, **J. L. Margot**, A. A. Hine, L. A. M. Benner, A. B. Chamberlin. Direct Detection of the Yarkovsky Effect via Radar Ranging to Near-Earth Asteroid 6489 Golevka. *Science* **302**, 1739-1742, 2003.

J. L. Margot and M. E. Brown. A low-density M-type asteroid in the main belt. *Science* **300**, 1939–1942, 2003.

S. J. Ostro, J. D. Giorgini, L. A. M. Benner, A. A. Hine, M. C. Nolan, **J. L. Margot**, P. W. Chodas, C. Veillet. Radar detection of Asteroid 2002 AA29. *Icarus* **166**, 271-275, 2003.

J. L. Margot, M. C. Nolan, L. A. M. Benner, S. J. Ostro, R. F. Jurgens, J. D. Giorgini, M. A. Slade, and D. B. Campbell. Binary Asteroids in the Near-Earth Object Population. *Science* **296**,

1445–1448, 2002.

J. L. Margot. Astronomy: Worlds of mutual motion. *Nature* **416**, 694-695, 2002.

L. A. M. Benner, S. J. Ostro, M. C. Nolan, **J. L. Margot**, J. D. Giorgini, R. S. Hudson, R. F. Jurgens, M. A. Slade, E. S. Howell, D. B. Campbell, D. K. Yeomans. Radar observations of asteroid 1999 JM8. *Meteoritics and Planetary Science* **37**, 779-792, 2002.

J. D. Giorgini and 13 co-authors. Asteroid 1950 DA's Encounter with Earth in 2880: Physical Limits of Collision Probability Prediction. *Science* **296**, 132-136, 2002.

S. J. Ostro, M. C. Nolan, **J. L. Margot**, C. Magri, A. W. Harris, J. D. Giorgini. NOTE: Radar Observations of Asteroid 288 Glauke. *Icarus* **152**, 201-204, 2001.

J. L. Margot, D. B. Campbell, R. F. Jurgens, and M. A. Slade. Digital elevation models of the Moon from Earth-based radar interferometry. *IEEE Trans. Geoscience and Remote Sensing* **38**, 1122–1133, 2000.

S. J. Ostro, R. S. Hudson, M. C. Nolan, **J. L. Margot**, D. J. Scheeres, D. B. Campbell, C. Magri, J. D. Giorgini, D. K. Yeomans. Radar Observations of Asteroid 216 Kleopatra. *Science* **288**, 836-839, 2000.

J. L. Margot, D. B. Campbell, R. F. Jurgens, and M. A. Slade. Topography of the lunar poles from radar interferometry: A survey of cold trap locations. *Science* **284**, 1658–1660, 1999.

J. L. Margot, D. B. Campbell, R. F. Jurgens, and M. A. Slade. The topography of Tycho Crater. *J. Geophys. Res.* **104**, E5, 11875–11882, 1999.

Review Papers

J. L. Margot et al. Properties of Asteroid Binaries and Triples. In *Asteroids IV*. In preparation.

K. S. Noll, W. M. Grundy, E. I. Chiang, **J. L. Margot**, S. D. Kern. Binaries in the Kuiper Belt. In *The Solar System Beyond Neptune* (eds M. A. Barucci, M. Boehnhardt, D. Cruikshank, A. Morbidelli), University of Arizona Press, 2008.

J. Stansberry, W. Grundy, M. Brown, D. Cruikshank, J. Spencer, D. Trilling, **J. L. Margot**. Physical Properties of Kuiper Belt and Centaur Objects: Constraints from Spitzer Space Telescope. In *The Solar System Beyond Neptune* (eds M. A. Barucci, M. Boehnhardt, D. Cruikshank, A. Morbidelli), University of Arizona Press, 2008.

W. J. Merline, S. J. Weidenschilling, D. D. Durda, **J. L. Margot**, P. Pravec, A. D. Storrs. Asteroids Do Have Satellites. In *Asteroids III* (eds W. Bottke, A. Cellino, P. Paolicchi, and R. P. Binzel), University of Arizona Press, 289-312, 2002.

S. J. Ostro, R. S. Hudson, L. A. M. Benner, J. D. Giorgini, C. Magri, **J. L. Margot**, M. C. Nolan. Asteroid Radar Astronomy. In *Asteroids III* (eds W. Bottke, A. Cellino, P. Paolicchi, and R. P. Binzel), University of Arizona Press, 151-168, 2002.

D. B. Campbell, R. S. Hudson, **J. L. Margot**. Advances in Planetary Radar Astronomy. *Review of Radio Science*, URSI, 2002.

Review Activities

National Research Council report external review.
NSF Planetary Astronomy review panel.
NASA Planetary Astronomy review panel.
NASA Near-Earth Object Observations review panel.
NASA Origins of Solar Systems external reviews.
NASA Planetary Geology and Geophysics external reviews.
NASA Cassini Data Analysis Program external reviews.
NASA Lunar Advanced Science and Exploration Research external reviews.
NASA Planetary Mission Data Analysis Program external reviews.
Numerous journal reviews for *Astronomy and Astrophysics, Astronomical Journal, Astrophysical Journal, Celestial Mechanics and Dynamical Astronomy, "Earth, Moon and Planets", Geophysical Research Letters, Journal of Geophysical Research (Planets), Icarus, Monthly Notices of the Royal Astronomical Society, Nature Geoscience, Planetary and Space Science, Science*.
External reviewer for Ph.D. theses (David Polishook, Alex Parker).

Recent Invited Talks

Las Cumbres Observatory Global Telescope Network, Santa Barbara, CA, invited.
National Radio Astronomy Observatory Colloquium, Green Bank, WV, invited.
Harvard-Smithsonian Center for Astrophysics Colloquium, Cambridge, MA, invited.
Lowell Observatory Colloquium, Flagstaff, AZ, invited.
Cornell University Gordon Lecture, Ithaca, NY, Nov. 2013.
Cornell University Planetary Lunch Seminar, Ithaca, NY, Nov. 2013.
UCSD Physics Colloquium, San Diego, CA, Jun. 2012.
Tokyo Institute of Technology, IRCS Seminar, Ookayama, May 2012.
National Astronomical Observatory of Japan Seminar, Mitaka, May 2012.
UCSC Center for the Origin, Dynamics, and Evolution of the Planets Seminar, CA, Dec. 2011.
UCLA Earth and Space Sciences Colloquium, Los Angeles, CA, Nov. 2011.
Università di Roma La Sapienza, Rome, Sep. 2011.
JPL Planetary Science Seminar, Pasadena, CA, Apr. 2011.
USC Earth Sciences Department Seminar, Los Angeles, CA, Mar. 2011.
Caltech Planetary Science Seminar, Pasadena, CA, Feb. 2011.
UCB Earth and Planetary Science Seminar and Astronomy Seminar, Berkeley, CA, Dec. 2010.
German Aerospace Center (DLR) Seminar, Berlin, Jul. 2010.
UCLA Astrophysics Colloquium, Los Angeles, CA, Jan. 2010.
UCSB Physics Colloquium, Santa Barbara, CA, Nov. 2009.
Campus Spatial Paris Diderot and Institut de Physique du Globe de Paris, Paris, Sep. 2009.
Institute of Geophysics and Planetary Physics Seminar, Los Angeles, CA, May 2009.
IAU Symposium 261 Relativity in Fundamental Astronomy, Virginia Beach, VA, Apr. 2009.
University of Toronto Astronomy Colloquium, Toronto, ON, Jan. 2009.
UCLA Astrophysics Journal Club, Los Angeles, CA, Oct. 2008.
Observatoire de Paris, Séminarie Astronomie et Systèmes Dynamiques, Paris, May 2008.
UCLA Earth and Space Sciences Colloquium, Los Angeles, CA, Mar. 2008.
Arizona State Univ. School of Earth & Space Exploration Colloquium, Phoenix, AZ, Mar. 2008.

The interior of Mercury, MESSENGER science team meeting, Washington, DC, Jun. 2007.
Recent measurements of the spin properties of Mercury, Henrard Symp., Namur, Dec. 2005.
Observations of Binary KBOs, Planet Formation and Detection, Aspen, CO, Feb. 2005.
University of Arizona LPL Colloquium, Tucson, AZ, Dec. 2004.
Princeton University Solid Earth Seminar Series, Princeton, NJ, Oct. 2004.
Royal Observatory of Belgium Seminar, Brussels, Jul. 2004.
MIT EAPS Department Lecture, Cambridge, MA, Feb. 2004.
Cornell University Astronomy Colloquium, Ithaca, NY, Feb. 2004.
University of British Columbia Astronomy Colloquium, Vancouver, BC, Oct. 2003.
Invited review on binary systems, IAU General Assembly, Sydney, Jul. 2003.
UCLA Planetology Seminar, Los Angeles, CA, Jun. 2003.
University of Maryland Astronomy Colloquium, College Park, MD, Apr. 2003.
Caltech Planetary Science Seminar, Pasadena, CA, Dec. 2002.
Invited review on binary systems, Asteroids-Comets-Meteors Meeting, Berlin, Aug. 2002.
University of California at San Diego, La Jolla, CA, May 2002.
MIT EAPS Department Lecture, Cambridge, MA, Apr. 2002.
Cornell University Astronomy Colloquium, Ithaca, NY, Feb. 2002.
Caltech Planetary Science Seminar, Pasadena, CA, Oct. 2001.
Stanford Radio Science Seminar, Palo Alto, CA, Mar. 2001.

Research Grants

Characterization of Binary and Triple Systems in the Near-Earth, Main Belt, and Trans-Neptunian Populations. NSF Astronomy and Astrophysics Program, PI J. L. Margot, AST-1211581, '12-'15.

High-Precision Measurements of Planetary Rotation. NASA Planetary Astronomy Program, PI J. L. Margot, NNX12AG34G, '12–'15.

Perihelion Advance and Yarkovsky Drift of Near-Earth Asteroids: Asteroid Physical Properties, Solar Oblateness, and General Relativity. NSF Planetary Astronomy Program, PI J. L. Margot, AST-1109772, '11–'16.

PDS archival of Earth-based radar topography data sets. NASA Lunar Advanced Science and Exploration Research, PI J. L. Margot, NNX09AJ66G, '09–'11.

High-Precision Measurements of Planetary Rotation. NASA Planetary Astronomy Program, PI J. L. Margot, NNX09AQ69G, '08–'11.

Optimal characterization of the interior of Mercury by integrating existing and future spin state measurements. NASA MESSENGER Participating Scientist Program, PI J. L. Margot, NNX09AR45G, '07-'13.

Characterization of Minor Planet Binaries in the Near-Earth, Main Belt, and Trans-Neptunian Populations. NASA Planetary Astronomy Program, PI J. L. Margot, NNX09AQ68G, '07–'11.

Perihelion Advance and Yarkovsky Drift of Near-Earth Asteroids: Asteroid Physical Properties, Solar Oblateness, and General Relativity. NSF Planetary Astronomy Program, PI J. L. Margot, AST-0606953, '06–'11.

High-Precision Measurements of Planetary Rotation. NASA Planetary Astronomy Program, PI J. L. Margot, NNG05GG18G, '05–'08.

Characterization of Minor Planet Binaries in the Near-Earth, Main Belt, and Kuiper Belt Populations. NASA Planetary Astronomy Program, PI J. L. Margot, NNG04GN31G, '04–'07.

Binary systems in the Kuiper belt. Space Telescope Science Institute, PI J. L. Margot, HST-GO-09746.01, '03–'04.

Innovation in Teaching

Co-authored (with K. McKeegan) "Graduate Program in Planetary Science" (2010-2012).
Introduced use of SMS polling in UCLA EPSS courses (Fall '09).
Introduced use of tablet PC in Cornell Astronomy courses (Spring '08).
Introduced use of on-line course evaluations in Cornell Astronomy courses (Spring '07).
Introduced use of blackboard course management system in Cornell Astro courses (Spring '06).
Introduced use of personal response systems in Cornell Astronomy courses (Spring '06).
Authored "A proposal for restructuring the Cornell Planetary Sciences curriculum" (Fall '05).

Recent Education/Public Outreach

Interview of NASA Administrator, "A conversation with Charlie Bolden", Jan. 22, 2014.
UCLA Exploring Your Universe talk, "Life in the Universe", Nov. 17, 2013.
CNN interview, "What's behind the science of 'Gravity'?", Sep. 28, 2013.
Improvements to ∼100 wikipedia entries, Aug. 2013 - present.
Stargazing with UCLA alumni and friends, Jul. 4, 2013.
Talk to UCLA alumni and friends, "Origin and Evolution of Life in the Universe", Jul. 4, 2013.
Stargazing with UCLA alumni and friends, Jun. 29, 2013.
Talk to UCLA alumni and friends, "The Astronomy of Lost Civilizations", Jun. 26, 2013.
Forbes.com interview on close approach of asteroid 1998 QE2, May 31, 2013.
Research seminar for Clare Boothe Luce Scholars, "Life in the Universe", May 6, 2013.
UCLA-JPL outreach event, "Asteroid Radar Astronomy", Apr. 24, 2013.
"Galilean Satellites" talk then stargazing, New Roads School, Santa Monica, Mar 1, 2013.
New Scientist interview, "Dinosaur-killing space rock was a terrible twosome", Feb. 9, 2013.
Mindshare LA - UCLA, "Origin and Distribution of Life in the Universe", Nov. 15, 2012.
Launched radarastronomy.org web site to disseminate radar astronomy results, Oct. 19, 2012.
AP interview, "Saturn moon Titan may harbor ocean below surface", Jun. 28, 2012.
Venus transit viewing on projection telescope, Palisades Park, Santa Monica, Jun. 5, 2012.
Tarzana Medical Center, "Exploration of Mercury, Venus, Europa", May 30, 2012.
UCLA alumni association of Japan, "Exploration of Mercury, Venus, Europa", May 22, 2012.
Space.com interview, "Did US Radar Destroy Mars Probe?", Jan. 17, 2012.
Radio Canada interview, "Mercure se dévoile à la sonde MESSENGER", aired Jun. 19, 2011.
Talk to UCLA Physical Sciences Board, "Planets and Exoplanets", May 14, 2011.
Android application, "Where is MESSENGER?", released on Apr. 5, 2011.
Radio Canada interview, "La planète Mercure", aired on Mar. 27, 2011.
Science talk with DC-area UCLA alumni, "Mercury & MESSENGER", Mar. 21, 2011.
AP interview, "Planet Mercury visible before NASA craft orbits it", Mar. 11, 2011.

Current Science magazine interview, Mar. 2010.
New Scientist interview, "Are Venus and Earth in a long-distance relationship? ", Mar. 16, 2010.
Tweets about science, education, critical thinking, etc, @jeanlucmargot, Jun. 27, 2009-present.
Special Public Session at AAS meeting, "Planetary Taxonomy", Jun. 9, 2009.
Earth and Space Sciences exhibits at UCLA Day, May 9, 2009.
Cornell Club of France, "Frontiers of Solar System Exploration", May 22, 2008.
Radio Canada interview, "Nouvelles fraîches de Mercure", aired on Feb. 3, 2008.
Astronomie Magazine interview, "Un messager pour Mercure", Jan. 2008.
Science World magazine interview, "Squishy Center", Sep. 2007.
La Recherche magazine interview, "Mercure, au coeur fluide", Jul.-Aug. 2007.
Cornell Reunion 2007, "What makes a planet?", Jun. 9, 2007.
National Geographic News interview, "Liquid Mercury", May 3, 2007.
Astronomy magazine podcast, "Mercury's core", May 3, 2007.
Museum of Science and Technology, Syracuse, NY, "What makes a planet?", Apr. 5, 2007.
NYT interview, "Prediction Proved: Light Speeds Up an Asteroid as it Spins", Mar. 13, 2007.
Regional Planetary Image Facility meeting, "Science Update: Ice on the Moon?", Nov. 1, 2006.
News 10 TV interview, "The Moon's cold, but not icy", aired on Oct 19-20, 2006.
News 10 TV interview, Asteroid impact risk, aired on Aug. 19-20, 2006.
News 10 TV interview, "Cornell professor weighs on asteroid threat", aired on Feb. 19, 2006.
Friends of Astronomy Banquet Dinner Talk, "Asteroids and Kuiper Belt Objects", Oct. 8, 2005.
Teacher Workshop Presentation, "Binary Minor Planets", Jan. 17, 2005.

Service Activities - UCLA

Merit Review Ad Hoc Committee (Fall '13).
UCLA Academic Senate Committee on Development (Fall '13-present).
EPSS Qualifying Exams Committee Co-Chair (Fall '12-present).
UCLA Meteorite Collection Advisory Committee (June '12-present).
EPSS Eight-year Review Preparation Committee (Spring '12).
EPSS White Paper for Planetary Science at UCLA (Spring '12).
Merit Review Ad Hoc Committee (Winter '12).
EPSS Graduate Student Advisor (Fall '11-present).
EPSS Graduate Student Relations Committee Chair (Fall '11-present).
EPSS Graduate Student Awards Committee Chair (Fall '11-present).
EPSS Ranking Ad Hoc Committee Co-Chair (Fall '11-present).
Merit Review Ad Hoc Committees (3) (Fall '10).
Astronomy Graduate Curriculum Review Committee ('10).
EPSS Faculty Relations Committee ('10-'11).
Merit Review Ad Hoc Committee (Fall '09).
EPSS Departmental scribe (Spring '09, Fall '09).
IGPP Education Committee (Fall '09, Winter '10).
IGPP Steering Committee (Fall '09).
Joint EPSS-Astronomy Planet Curriculum Committee Chair (Spring '09).
Earth and Space Sciences Web Committee (Spring '09).
Earth and Space Sciences UCLA Day Committee (Spring '09).

Service Activities - Cornell

Committee on Courses (Fall '07-Fall '08).
Academic Integrity Hearing Board/Grievance Committee (Fall '07-Fall '08).
First Year Graduate Student Committee (Fall '06-Spring '07).
Astronomy Colloquium co-chair (Fall '05-Spring '06).
Astrobiology Committee (Spring '05-Spring '06).
Astronomy Department Representative for the Physical Sciences Library (Fall '04-Spring '05).
Planetary Lunch Seminar co-chair (Fall '04-Spring '07).

Service Activities - Community

Hubble Space Telescope Solar System Advisory Committee ('13).
MESSENGER Science Team Meeting 28 Co-Organizer ('12).
NSF Recompetition of Large Facilities Committee ('11).
DPS 2008 Chair of the Science Program Committee.
Brouwer Award Selection Committee (Fall '07-Spring '09).
CCAT Chair of Solar System Science working group (Spring '05-Fall '08).
Arecibo Observatory Users Committee ('03-'04).

Mentoring

Postdocs:
A. Verma (2014-present).
M. W. Busch (2010-2012, now Research Associate at SETI Institute).
M. Yseboodt (2004-2006, now tenured at Royal Observatory of Belgium).

Graduate students:
A. Greenberg (Summer 2013-present, working towards Ph.D.).
S. Naidu (Fall 2010-present, M.S. 2012, working towards Ph.D.).
S. Padovan (Fall 2009-present, M.S. 2012, working towards Ph.D.).
J. Fang (Ph.D. 2013, now research scientist at MIT Lincoln Laboratories).
C. Nugent (Ph.D. 2013, now NASA Postdoctoral Fellow).
P. A. Taylor (Ph.D. 2009, now Research Associate at Arecibo Observatory).

Undergraduate students:
Brittany Miles (Summer 2013-present)
Ivan Constantino (Summer 2013)
Abhejit Rajagopal (Spring 2013)
Brent Harris (Fall 2012-Winter 2013)
Gabriel Lopez (Summer 2012-2013)
Adam Waszczak (Summer 2008 REU student)
Seth Jacobson (Spring 2007-2008)
Emily Kramer (Summer 2007 REU student)
Piyanat Kittiwisit (Spring 2007-2008)
Greg Vesper (Summer 2005-Spring 2007)
Prashant Sundar (Summer 2004)

Professional Organizations

American Geophysical Union (Planetary Sciences Section).
American Astronomical Society (Planetary Sciences and Dynamical Astronomy).
Committee on Space Research.
International Astronomical Union.
International Union of Radio Science (Commission J Radio Astronomy).