

## Jean-Luc Margot

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### Academic Positions

Chair, Dept. of Earth, Planetary, and Space Sciences, UCLA, 2016–present.  
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–dissolution.  
Associate Professor, Dept. of Astronomy, Cornell University, 2008.  
Assistant Professor, Dept. of Astronomy, Cornell University, 2004–2008.  
Postdoctoral Fellow, Caltech, 2001–2003.  
Postdoctoral Research Associate, Arecibo Observatory, 1999–2001.  
Graduate Research Assistant, Dept. of Astronomy, Cornell University, 1994–1999.  
Erasmus Fellow, Electromagnetics Institute, Technical University of Denmark, 1993.

### Education

Ph.D., Astronomy, 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.

### Select Honors and Awards

NASA Group Achievement Award, 2018.  
William E. and Elva F. Gordon Distinguished Lectureship, 2013.  
AAS Division for Planetary Sciences Urey Prize, 2004.  
O.K. Earl Prize Fellow in Planetary Science, Caltech, 2001.  
Asteroid (9531) Jean-Luc named by International Astronomical Union, 2001.  
Graduated with *Grande Distinction*, Université Catholique de Louvain, 1993.  
European Union Erasmus Fellow, Technical University of Denmark, January–June 1993.

### Teaching

Instructor, EPSS 3 Astrobiology, F09, F10, F11, F12, F13, F14, F15, F16, F17, F18, UCLA.  
Instructor, EPSS 9 Solar System and Planets, S09, W10, S11, W13, W14, UCLA.  
Instructor, EPSS 152/200A Physics of Earth and Planets, F15, UCLA.  
Instructor, EPSS 179/279 Search for Extraterrestrial Intelligence, S16, S17, S18, UCLA.  
Instructor, EPSS 200E Planetary Origins, W12, UCLA.  
Instructor, EPSS 298 Radio and Radar Astronomy, S15, UCLA.  
Instructor, EPSS 298 Classic Papers in Planetary Science, W11, S13, UCLA.  
Instructor, EPSS 298 Celestial Mechanics, S12, UCLA.  
Instructor, EPSS 495 Teaching Earth and Space Sciences, F12, UCLA.

Instructor, M 285 Planet Formation and Evolution, S10, UCLA.  
Instructor, ASTRO 102 Our Solar System, S05, S06, S07, S08, Cornell University.  
Instructor, ASTRO 578 Planet Formation and Evolution, F06, F08, Cornell University.  
Instructor, ASTRO 621 Planetary Radar Astronomy, S06, Cornell University.  
Instructor, ASTRO 671 Classic Papers in Planetary Science, F07, Cornell University.  
Guest lecturer, ENVIRONM 10 Introduction to Environmental Science, F10, UCLA.  
Guest lecturer, COMM 276 Cases in Comm. and Social Influence, S07, S08, Cornell University.  
Guest lecturer, EAS 122, Earthquake! (and other natural disasters), S07, S08, Cornell University.

## Publications

Citation metrics are available at [Thomson Reuters](#) and [Google Scholar](#).

A. H. Greenberg\*, **J. L. Margot**, A. K. Verma, P. A. Taylor, S. E. Hodge. [Yarkovsky Drift Detections for 159 Near-Earth Asteroids](#). *Astronomical Journal*, submitted.

A. K. Verma\* and **J. L. Margot**. [Expected Precision of Europa Clipper Gravity Measurements](#). *Icarus* **314**, pp. 34–49, 2018.

**J. L. Margot** and 16 co-authors. [A search for technosignatures from 14 planetary systems in the Kepler field with the Green Bank Telescope at 1.15–1.73 GHz](#). *Astronomical Journal* **155**, 209, 2018.

M. Pajuelo and 26 co-authors. Physical, spectral, and dynamical properties of asteroid (107) Camilla and its satellites. *Icarus* **309**, 134, 2018.

A. K. Verma\*, **J. L. Margot**, A. H. Greenberg. [Prospects of Dynamical Determination of General Relativity Parameter  \$\beta\$  and Solar Quadrupole Moment  \$J\_{2\odot}\$  with Asteroid Radar Astronomy](#). *Astrophysical Journal* **845**, 166, 2017.

A. H. Greenberg\*, **J. L. Margot**, A. K. Verma, P. A. Taylor, S. P. Naidu, M. Brozovic, L. A. M. Benner. [Asteroid 1566 Icarus's size, shape, orbit, and Yarkovsky drift from radar observations](#). *Astronomical Journal* **153**, 108, 2017.

D. M. Hastings\*, D. Ragozzine, D. C. Fabrycky, L. D. Burkhardt, C. Fuentes, **J. L. Margot**, M. E. Brown, M. Holman. The Short Rotation Period of Hi'iaka, Haumea's Largest Satellite. *Astronomical Journal* **152**, 195, 2016.

S. P. Naidu, L. A. M. Benner, **J. L. Margot**, M. W. Busch, P. A. Taylor. [Capabilities of Earth-based Radar Facilities for Near-Earth Asteroid Observations](#). *Astronomical Journal* **152**, 99, 2016.

A. K. Verma\* and **J. L. Margot**. [Mercury's gravity, tides, and spin from MESSENGER radio science data](#). *Journal of Geophysical Research: Planets* **121**, 2016.

S. J. Peale, **J. L. Margot**, S. A. Hauck, II, S. C. Solomon. Consequences of a solid inner core on Mercury's spin configuration. *Icarus* **264**, 443, 2016.

**J. L. Margot**. [A Quantitative Criterion for Defining Planets](#). *Astronomical Journal* **150**, 185, 2015.

- M. Perry and 17 co-authors. The low-degree shape of Mercury. *Geophysical Research Letters* **42**, 6951, 2015.
- A. Stark, J. Oberst, F. Preusker, S. J. Peale, **J. L. Margot**, R. J. Phillips, G. A. Neumann, D. E. Smith, M. T. Zuber, S. C. Solomon. First MESSENGER Orbital Observations of Mercury's Librations. *Geophysical Research Letters* **42**, 7881, 2015.
- A. Stark, J. Oberst, F. Preusker, K. Gwinner, S. J. Peale, **J. L. Margot**, R. J. Phillips, M. T. Zuber, S. C. Solomon. Mercury's rotational parameters from MESSENGER image and laser altimetry data: A feasibility study. *Planetary and Space Science* **117**, 64, 2015.
- A. H. Greenberg\* and **J. L. Margot**. [Improved Algorithms for Radar-Based Reconstruction of Asteroid Shapes](#). *Astronomical Journal* **150**, 114, 2015.
- J. L. Margot**. [Insufficient Evidence of Purported Lunar Effect on Pollination in \*Ephedra\*](#). *Journal of Biological Rhythms* **30**, 454, 2015.
- S. P. Naidu\*, **J. L. Margot**, P. A. Taylor, M. C. Nolan, M. W. Busch, L. A. M. Benner, M. Brozovic, J. D. Giorgini, J. S. Jao, C. Magri. [Radar Imaging and Characterization of Binary Near-Earth Asteroid \(185851\) 2000 DP107](#). *Astronomical Journal* **150**, 54, 2015.
- J. L. Margot**. [No Evidence of Purported Lunar Effect on Hospital Admission Rates or Birth Rates](#). *Nursing Research* **64**, 168, 2015.
- S. Padovan\*, M. A. Wieczorek, **J. L. Margot**, N. Tosi, S. C. Solomon. [Thickness of the crust of Mercury from geoid-to-topography ratios](#). *Geophysical Research Letters* **42**, 1029, 2015.
- S. P. Naidu\* and **J. L. Margot**. [Near-Earth Asteroid Satellite Spins Under Spin-Orbit Coupling](#). *Astronomical Journal* **149**, 80, 2015.
- S. Padovan\*, **J. L. Margot**, S. A. Hauck, II, W. B. Moore, S. C. Solomon. [The tides of Mercury and possible implications for its interior structure](#). *Journal of Geophysical Research: Planets* **119**, 850, 2014.
- S. R. Chesley and 15 co-authors. Orbit and Bulk Density of the OSIRIS-REx Target Asteroid (101955) Bennu. *Icarus* **235**, 5, 2014.
- S. J. Peale, **J. L. Margot**, S. A. Hauck, S. C. Solomon. Effect 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. P. 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: Planets* **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. Stromovsky 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](#). *Journal of Geophysical Research* **104**, E5, 11875–11882, 1999.

## Book Chapters

**J. L. Margot**, S. A. Hauck, E. Mazarico, S. Padovan, S. J. Peale. [Mercury's Internal Structure](#). In *Mercury - The View after MESSENGER* (S. C. Solomon, B. J. Anderson, L. R. Nittler, eds.), *in press*.

**J. L. Margot**, P. Pravec, P. Taylor, B. Carry, S. Jacobson. [Asteroid Systems: Binaries, Triples, and Pairs](#). In *Asteroids IV* (eds P. Michel, F. DeMeo, W. Bottke), University of Arizona Press, 355–373, 2015.

L. A. M. Benner, M. W. Busch, J. D. Giorgini, P. A. Taylor, **J. L. Margot**. Radar Observations of Near-Earth and Main-Belt Asteroids. In *Asteroids IV* (eds P. Michel, F. DeMeo, W. Bottke), University of Arizona Press, 165–182, 2015.

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. 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. 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. 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. 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.

## Reviews

### Reports:

National Research Council: A Survey of the Active Scientific Use of the Radio Spectrum, 2015.

National Research Council: Defending Planet Earth: Near-Earth Object Surveys and Hazard Mitigation Strategies, 2010.

### Grant Proposals:

NSF Astronomy and Astrophysics Research Grants review panels.

NASA Planetary Astronomy review panels.

NASA Near-Earth Object Observations review panels.

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.

**Journal Articles:**

*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, PLOS ONE, Science.*

**Ph.D. theses:**

Matt Walker (2017).

Li-Wei Hung (2016).

Shane Frewen (2015).

Matt Siegler (2011).

Alex Parker (2011).

David Polishook (2011).

**Invited Talks**

University of Central Florida Physics Colloquium, Orlando, FL, invited.

NRC Herzberg Institute of Astrophysics Colloquium, Victoria, BC, Sept. 2018.

University of British Columbia Astronomy Colloquium, Vancouver, BC, Sept. 2018.

Kuiper Prize Lecture: Stan Peale's Legacy, Pasadena, CA, Oct. 2016.

Las Cumbres Observatory Global Telescope Network, Santa Barbara, CA, Jun. 2014.

UCLA Earth, Planetary, and Space Sciences Colloquium, Los Angeles, CA, May 2014.

National Radio Astronomy Observatory Colloquium, Green Bank, WV, May 2014.

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.

Japan Geoscience Union, Chiba, 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.

American Geophysical Union Fall meeting, San Francisco, CA, Dec. 2010.

German Aerospace Center (DLR) Seminar, Berlin, Jul. 2010.

UCLA Astrophysics Colloquium, Los Angeles, CA, Jan. 2010.

American Geophysical Union Fall meeting, San Francisco, CA, Dec. 2009.

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, Séminaire 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.  
Caltech Planetary Science Seminar, Pasadena, CA, Dec 1999.  
Caltech Planetary Science Seminar, Pasadena, CA, Mar 1998.

## Research Grants

Radar Asteroid Detection, Analysis, and Reporting. NASA Near Earth Object Observations Program, PI J. L. Margot, NNH17ZDA001N-SSO, 2018–2021.

Europa Mission Geophysics Measurement Requirements. NASA Europa Mission Project, PI J. L. Margot, 1569162, 2017–2018.

Radar Asteroid Detection, Analysis, and Reporting. NASA Near Earth Object Observations Program, PI J. L. Margot, NNX14AM95G, 2014–2018.

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, 2012–2016.

High-Precision Measurements of Planetary Rotation. NASA Planetary Astronomy Program, PI J. L. Margot, NNX12AG34G, 2012–2016.

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, 2011–2016.

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, 2007–2013 (first extension –2014, second extension –2015).

PDS archival of Earth-based radar topography data sets. NASA Lunar Advanced Science and Exploration Research, PI J. L. Margot, NNX09AJ66G, 2009–2011.

High-Precision Measurements of Planetary Rotation. NASA Planetary Astronomy Program, PI J. L. Margot, NNX09AQ69G, 2008–2011.

Characterization of Minor Planet Binaries in the Near-Earth, Main Belt, and Trans-Neptunian Populations. NASA Planetary Astronomy Program, PI J. L. Margot, NNX09AQ68G, 2007–2011.

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, 2006–2011.

High-Precision Measurements of Planetary Rotation. NASA Planetary Astronomy Program, PI J. L. Margot, NNG05GG18G, 2005–2008.

Characterization of Minor Planet Binaries in the Near-Earth, Main Belt, and Kuiper Belt Populations. NASA Planetary Astronomy Program, PI J. L. Margot, NNG04GN31G, 2004–2007.

Binary systems in the Kuiper belt. Space Telescope Science Institute, PI J. L. Margot, HST-GO-09746.01, 2003–2004.

## Recent Education/Public Outreach

Forbes.com interview, “[Five Mercury Puzzles](#)”, Oct. 16, 2018.

Mount Wilson Observatory talk, “[The search for life in the universe](#)”, Sept. 15, 2018.

L’Express interview, “[La Lune, une amie qui vous veut du bien?](#)”, Sept. 10, 2018.

Viking Orion enrichment lecture, “[The search for life in the universe](#)”, June 17, 2018.

NYT interview, “[Challenging What NASA Knows About Space Rocks](#)”, June 14, 2018.

UCLA EPSS Panel moderator, “[Magnetic Structures in the Solar System](#)”, Feb. 12, 2018.

Universe Today interview, “[A search for technosignatures in the Kepler field](#)”, Feb. 9, 2018.

Talk at First Friday Ideas Salon, “[Are we alone in the universe?](#)”, Jan. 5, 2018.

Forbes.com interview on the number of exoplanets, “[Billions Of Exoplanets?](#)”, Dec. 31, 2017.

UCLA EPSS Panel moderator, “[Cassini at Saturn](#)”, Oct. 26, 2017.

Talk at Bruin Alliance of Skeptics and Secularists, “[Questionable Beliefs](#)”, Sept. 29, 2017.

KTHV Television interview, “[Does a full moon really impact hospitals?](#)”, Sept. 5, 2017.

Observations of the total solar eclipse in Madras, OR, with 36 participants, Aug. 21, 2017.

Westwood Village Rotary Club, “[The Great American Eclipse of 2017](#)”, Aug. 10, 2017.

Reuters TV interview, “[The Great American Eclipse of 2017](#)”, Aug. 9, 2017.

CBS 2/KCAL 9 TV interview, “[The Great American Eclipse of 2017](#)”, Aug. 9, 2017.

BBC mundo interview, “[NASA’s Asteroid Deflection Mission](#)”, July 3, 2017.

Super News Live interview, “[Life in Space](#)”, June 27, 2017.

UCLA EPSS Panel moderator, “[It Fell From The Sky!](#)”, May 9, 2017.

Talk at Harvard Club of Southern California, “Out of this World!”, Apr. 30, 2017.

Talk at Bruin Alliance of Skeptics and Secularists, “Questionable Beliefs”, Apr. 28, 2017.

Radio interview for Australian Broadcasting Corporation, “[The Science Show](#)”, Apr. 1, 2017.

CNET interview, “[Planet definition](#)”, Mar. 24, 2017.

Washington Post interview, “[Planet definition](#)”, Mar. 20, 2017.

Lecture promoting STEM to ten-year-olds, “Galilean Satellites”, Jan. 7, 2017.

BBC Mundo interview, “[Supermoon](#)”, Nov. 14, 2016.

France Télévisions TV interview, “Supermoon”, Nov. 14, 2016.

France Inter radio interview, “Supermoon”, Nov. 11, 2016.

UCLA Exploring Your Universe talk, “Life in the Universe”, Nov. 6, 2016.

Registered nurses of Alberta, “[The full moon phenomenon: fact or fiction?](#)”, Oct. 27, 2016.

Wall Street Journal interview, “[Full moon and hospital workers](#)”, Oct. 17, 2016.

BBC Mundo interview, “[What is a Strawberry Moon?](#)”, Jun. 20, 2016.

Life Science/CBS News interview, “[Mercury in Retrograde](#)”, May 6, 2016.

Talk at Boeing headquarters to UCLA alumni and friends, “UCLA in Space”, Mar. 29, 2016.

Lateral Magazine interview, “[Wandering stars](#)”, Mar. 18, 2016.

Radio Canada interview, “[La sombre histoire de Mercure](#)”, Mar. 13, 2016.

UCLA Undergraduate Astronomical Society, “How to define a planet”, Feb. 24, 2016.

Retraction Watch interview, “[Why publishing negative findings is hard](#)”, Feb. 17, 2016.

Today’s Science interview, Infobase Learning, “[Conversation with scientists](#)”, Feb. 17, 2016.

Today’s Science interview, Infobase Learning, “[How to define a planet](#)”, Feb. 10, 2016.

Talk at SpaceX headquarters, “UCLA in Space”, Feb. 4, 2016.

BBC Sky at Night interview, “Planet Nine”, Jan. 29, 2016.

KPCC radio interview, “[Planet Nine: What should its name be if it’s found?](#)”, Jan. 22, 2016.

Univision TV interview, “[Questionable beliefs associated with the full moon](#)”, Nov. 21, 2015.

Radio interview NewsRadio 740 KTRH, “What makes a planet?”, Nov. 18, 2015.

L.A. Times interview, “[Why we need a new definition of the word ‘planet’](#)”, Nov. 13, 2015.

New Scientist interview, “[New definition of planethood](#)”, Nov. 11, 2015.

German Public Radio interview, “What makes a planet?”, Nov. 11, 2015.

XPRIZE panel discussion with Virgin Galactic, Planetary Resources, NASA JPL, Nov. 6, 2015.

Lecture promoting STEM to nine-year-olds, “Life in the Universe”, Sep. 19, 2015.

The Guardian interview, “[Who you calling a dwarf?](#)”, July 15, 2015.

FiveThirtyEight interview, “[Is The Moon To Blame?](#)”, Jun. 11, 2015.

Radio interview The Pulse/WHYY, “[Births during a full moon?](#)”, aired on May 28, 2015.

Radio New Zealand interview, “[Another Lunar Incident](#)”, aired on May 6, 2015.

BBC Mundo Interview, [La luna llena “no tiene la culpa de nada”](#), May 4, 2015.

Radio Canada interview, “[Blame the Moon Study](#)”, aired on Mar. 31, 2015.

Huffington Post interview, “[Why We Blame Strange Events on the Full Moon](#)”, Mar. 31, 2015.

Web article, “[There Was a Full Moon and Nothing Happened . . . Again](#)”, Mar. 29, 2015.

Astronomía Online article, “[¿Qué es lo que define a un planeta?](#)”, (w. R. Tohmé), Mar. 7, 2015.

M.S. Le Boréal lecture, “Our Home in the Cosmos”, Feb. 6, 2015.

M.S. Le Boréal lecture, “Life in the Universe”, Jan. 31, 2015.

NHK documentary, “Cosmic Front: Mystery of Mercury”, Dec. 25, 2014.

Science and Entertainment Exchange, “Disruption: Asteroid Impacts”, Google, Nov. 11, 2014.

Salon Français de Los Angeles, “Life in the Universe”, Apr. 15, 2014.

Bilingual talk at Alliance Française de Los Angeles, “Life in the Universe”, Mar. 6, 2014.  
 Interview of NASA Administrator, “[A conversation with Charles 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.  
 Web article, [How realistic is ‘Gravity’?](#), Sep. 28, 2013.  
 Improvements to ~200 wikipedia entries, Aug. 2013–present.  
 Stargazing with UCLA alumni and friends, July 4, 2013.  
 Talk to UCLA alumni and friends, “Origin and Evolution of Life in the Universe”, July 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.  
 Xinhua News Agency, “Shenzhou 10 spacecraft docks with Tiangong 1”, Jun. 13, 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.  
 ScienceNews interview, “No vacancy around stars”, Mar. 6, 2013.  
 “Galilean Satellites” talk and 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.  
 Steven J. Ostro symposium, “Binary Asteroids in the Near-Earth Population”, Jun. 4, 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 messenger pour Mercure”, Jan. 2008.  
 Science World magazine interview, “Squishy Center”, Sep. 2007.  
 La Recherche magazine interview, “Mercure, au coeur fluide”, July–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.  
Web article, [What makes a planet?](#), Dec. 1, 2006.  
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.

## **Consulting for Entertainment Industry**

Details are omitted to adhere to NDAs and/or protect intellectual property.  
Advised screenwriter on a space adventure story, 2018.  
Advised producer on a space adventure story, 2018.  
Advised screenwriter on an asteroid-related story, 2017–2018.  
Advised screenwriter on a gravity-related story, 2017.  
Advised screenwriter on an impact-related story, 2017.  
Advised screenwriter on an asteroid-related story, 2017.  
Advised screenwriter on a SETI-related story, 2016.  
Advised screenwriters on an exoplanet-related story, 2016.  
Advised screenwriter on an impact-related story, 2015.  
Advised screenwriter on an asteroid-related story, 2015.  
Advised actor on a space-related story, 2015.  
Advised screenwriter and producer on a planet-related story, 2015.

## **Service – UCLA**

### **EPSS Chair, Summer 2016–present.**

UCLA Council of Advisors, Winter 2016–**present**.  
EPSS Merit Review Ad Hoc Committee, Fall 2015.  
Developed course proposal for C179/279 SETI: Theory and Applications, Spring 2015.  
UCLA Academic Senate Committee on Development, Fall 2013–Summer 2016.  
EPSS Merit Review Ad Hoc Committee, Fall 2014.  
EPSS Curriculum Committee, Fall 2014–**present**.  
EPSS Emeriti Relations Committee, Fall 2014–**present**.  
EPSS Event Planning Committee, Fall 2014–**present**.  
EPSS Graduate Student Awards Committee, Fall 2014–**present**.  
EPSS Staff Awards Committee, Fall 2014–**present**.  
EPSS Web Site / IT Support Committee, Fall 2014–**present**.  
EPSS Safety Committee, Fall 2014–**present**.

### **EPSS Vice Chair, Summer 2014–Spring 2016.**

Organized Meteorite Hunting Expedition & Geology Tour for EPSS alumni, Spring 2014.  
Rewrote (with K. McKeegan) Program Requirements for M.S. and Ph.D., Winter–Spring 2014.  
EPSS Merit Review Ad Hoc Committee, Fall 2013.  
EPSS Alumni Relations and Fundraising Committee, Fall 2013–**present**.  
EPSS Merit Review Ad Hoc Committee, Fall 2012.

EPSS Qualifying Exams Committee Co-Chair, Fall 2012–Spring 2013.  
UCLA Meteorite Collection Advisory Committee, June 2012–**present**.  
EPSS Eight-year Review Preparation Committee, Spring 2012.  
EPSS White Paper for Planetary Science at UCLA, Spring 2012.  
EPSS Merit Review Ad Hoc Committee, Fall 2011.  
Co-authored (with K. McKeegan) “Graduate Program in Planetary Science”, 2010–2012.  
**EPSS Graduate Student Advisor, Fall 2011–Spring 2014.**  
EPSS Graduate Student Relations Committee Chair, Fall 2011–Spring 2014.  
EPSS Graduate Student Awards Committee Chair, Fall 2011–Spring 2014.  
EPSS Ranking Ad Hoc Committee Co-Chair, Fall 2011–Spring 2013.  
EPSS Merit Review Ad Hoc Committees (2), Fall 2010.  
Astronomy Graduate Curriculum Review Committee, 2010.  
EPSS Faculty Relations Committee, 2010–2011.  
EPSS Merit Review Ad Hoc Committee, Fall 2009.  
EPSS Scribe, Spring and Fall 2009.  
IGPP Education Committee, Fall 2009 and Winter 2010.  
IGPP Steering Committee, Fall 2009.  
Joint EPSS-Astronomy Planet Curriculum Committee Chair, Spring 2009.  
EPSS World Wide Web Committee, Spring 2009.  
EPSS UCLA Day Committee, Spring 2009.

## **Service – Cornell**

Committee on Courses, Fall 2007–Fall 2008.  
Academic Integrity Hearing Board/Grievance Committee, Fall 2007–Fall 2008.  
First Year Graduate Student Committee, Fall 2006–Spring 2007.  
Astronomy Colloquium Co-Chair, Fall 2005–Spring 2006.  
Astrobiology Committee, Spring 2005–Spring 2006.  
Authored “A proposal for restructuring the Cornell Planetary Sciences curriculum”, Fall 2005.  
Astronomy Dept. Representative for the Physical Sciences Library, Fall 2004–Spring 2005.  
Planetary Lunch Seminar Co-Chair, Fall 2004–Spring 2007.

## **Service – Community**

IAU Working Group on Cartographic Coordinates and Rotational Elements, 2018–present.  
Board member, Arecibo Science Advocacy Partnership, 2016–present.  
Gravity Science Working Group of NASA’s Europa Multiple Flyby mission, 2015–2016.  
IAU Division F (Planetary Systems and Bioastronomy) Secretary, 2015–2018.  
Hubble Space Telescope Solar System Advisory Committee, 2013.  
MESSENGER Science Team Meeting 28 Co-Organizer, 2012.  
NSF Recompetition of Large Facilities Committee, 2011.  
Chair, Science Program Committee, 2008 DPS meeting.  
Brouwer Award Selection Committee, Fall 2007–Spring 2009.  
CCAT Chair of Solar System Science Working Group, Spring 2005–Fall 2008.  
Arecibo Observatory Users Committee, 2003–2004.

## Mentoring

### Postdocs:

Ashok K. Verma, 2014–present.

Michael W. Busch, 2010–2012, now Research Associate at SETI Institute.

Marie Yseboodt, 2004–2006, now tenured at Royal Observatory of Belgium.

### Graduate students:

Paul Pinchuk, Fall 2017–present.

Mai Tran, Fall 2017–present.

Sanjana Prabhu Desai, Fall 2017–present.

Adam H. Greenberg, Ph.D. 2017, now Staff Scientist at Raytheon.

Danielle Hastings, M.S. 2017.

M. Oliver Bowman, M.S. 2016.

Shantanu P. Naidu, Ph.D. 2015, now Staff Scientist at Jet Propulsion Laboratory.

Sebastiano Padovan, Ph.D. 2014, now Postdoc at DLR Institute of Planetary Research.

Julia A. Fang, Ph.D. 2013, now Staff Scientist at MIT Lincoln Laboratory.

Carolyn Nugent, Ph.D. 2013, now Staff Scientist at IPAC.

Patrick A. Taylor, Ph.D. 2009, now Staff Scientist at Arecibo Observatory.

### Undergraduate students:

Wynne Turner, Summer 2017, Summer 2018.

Ben Duclos, Winter 2016–Winter 2017.

Anjali Modi, Winter 2015–Summer 2016.

Lydia Bingley, Spring 2014–Fall 2014.

Zoya Chhabra, Spring 2014.

Rodd Talebi, Summer 2014.

Brittany Miles, Summer 2013–Winter 2014.

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.

### High school students:

Kevin Lu, Summer 2018.

## Professional Organizations

American Geophysical Union (Planetary Sciences Section, Geodesy Section).

American Astronomical Society (Planetary Sciences, Dynamical Astronomy).

Committee on Space Research (Commissions B Planets, E Astrophysics, F Life Sciences).



International Astronomical Union (Divisions A Fundamental Astronomy, B Facilities, F Planetary Systems and Bioastronomy).

International Union of Radio Science (Commission J Radio Astronomy).

SETI Permanent Committee of the International Academy of Astronautics.