

Jean-Luc Margot

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Academic Positions

Professor, Dept. of Earth, Planetary, and Space Sciences, UCLA, 2013–**present**.
Professor, Dept. of Physics and Astronomy, UCLA, 2013–**present**.
Chair, Dept. of Earth, Planetary, and Space Sciences, UCLA, 2016–2019.
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

Named Interdisciplinary Scientist for ESA's EnVision mission to Venus, 2025.
UCLA Excellence in Science Outreach Award, 2023.
Stanton J. Peale Lecturer, University of California, Santa Barbara, 2019.
Knight of the Order of the Crown (Belgium), 2018.
NASA Group Achievement Award, 2018.
William E. Gordon Lecturer, Cornell University, 2013.
American Astronomical Society Harold C. 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 2 Science in the Movies, W25, UCLA.
Instructor, EPSS 3 Astrobiology, F09–F18, F20–F24, 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 SETI, S16–S24, UCLA.

Instructor, EPSS 200E Planetary Origins, W12, UCLA.
Instructor, EPSS 219 Planetary and Orbital Dynamics, W23, UCLA.
Instructor, EPSS 298 Geodetic Control Networks, W21, 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.

Refereed Publications

Citation h-index of 56 ([Google Scholar](#)). Citation count in excess of 10,000.

Additional citation metrics available at [Thomson Reuters](#) and [Google Scholar](#).

In the list below, starred authors indicate publications from students and postdocs in my research group and bold numbers indicate review chapters in edited books.

114. **J. L. Margot**, B. G. Gladman, T. Yang. [Quantitative Criteria for Defining Planets](#). *Planetary Science Journal* **5**, 2024.
113. **J. L. Margot**, M. G. Li*, P. Pinchuk, N. Myhrvold, L. Lesyna, and 75 co-authors. [A Search for Technosignatures Around 11,680 Stars with the Green Bank Telescope at 1.15–1.73 GHz](#). *Astronomical Journal* **166**, 2023.
112. E. Whittaker*, **J. L. Margot**, A. L. H. Lam*, N. Myhrvold. [Thermal Models of Asteroids with Two-band Combinations of Wide-field Infrared Survey Explorer Cryogenic Data](#). *Planetary Science Journal* **4**, 2023.
111. A. L. H. Lam*, **J. L. Margot**, E. Whittaker*, N. Myhrvold. [Determination of 1929 Asteroid Rotation Periods from WISE Data](#). *Planetary Science Journal* **4**, 2023.
110. A. K. Virkki and 29 authors. Arecibo Planetary Radar Observations of Near-Earth Asteroids: 2017 December - 2019 December. *Planetary Science Journal* **3**, 2022.
109. N. Myhrvold, P. Pinchuk*, **J. L. Margot**. [Analysis of four-band WISE observations of asteroids](#). *Planetary Science Journal* **3**, 2022.
108. P. Pinchuk* and **J. L. Margot**. [A Machine-Learning-Based Direction-of-Origin Filter for the Identification of Radio Frequency Interference in the Search for Technosignatures](#). *Astronomical Journal* **163**, 2022.
107. **J. L. Margot**, D. B. Campbell, J. D. Giorgini, J. S. Jao, L. G. Snedeker, F. D. Ghigo, A. Bonsall. [Spin state and moment of inertia of Venus](#). *Nature Astronomy* **5**, 2021.

106. **J. L. Margot**. [A Data-Taking System for Planetary Radar Applications](#). *Journal of Astronomical Instrumentation* **10**, 2021.
105. **J. L. Margot**, P. Pinchuk*, R. Geil, and 37 co-authors. [A Search for Technosignatures Around 31 Sun-like Stars with the Green Bank Telescope at 1.15–1.73 GHz](#). *Astronomical Journal* **161**, 55, 2021.
104. S. P. Naidu and 12 co-authors. Radar Observations and a Physical Model of Binary Near-Earth Asteroid 65803 Didymos, Target of the DART Mission. *Icarus* **348**, 2020.
103. A. H. Greenberg*, **J. L. Margot**, A. K. Verma, P. A. Taylor, S. E. Hodge. [Yarkovsky Drift Detections for 247 Near-Earth Asteroids](#). *Astronomical Journal* **159**, 92, 2020.
102. B. A. Archinal and 18 co-authors. Correction to: Report of the IAU working group on cartographic coordinates and rotational elements: 2015. *Celestial Mechanics and Dynamical Astronomy* **131**, 2019.
101. B. A. Campbell, D. B. Campbell, L. M. Carter, J. F. Chandler, J. D. Giorgini, **J. L. Margot**, G. A. Morgan, M. C. Nolan, P. J. Perrilat, J. L. Whitten. The Mean Rotation Rate of Venus from 29 Years of Earth-Based Radar Observations. *Icarus* **332**, 19–23, 2019.
100. P. Pinchuk*, **J. L. Margot**, and 17 co-authors. [A search for technosignatures from TRAPPIST-1, LHS 1140, and 10 planetary systems in the Kepler field with the Green Bank Telescope at 1.15-1.73 GHz](#). *Astronomical Journal* **157**, 122, 2019.
- 099.** **J. L. Margot**, S. A. Hauck, E. Mazarico, S. Padovan, S. J. Peale. [Mercury’s Internal Structure](#). In *Mercury - The View after MESSENGER* (eds S. C. Solomon, B. J. Anderson, L. R. Nittler), Cambridge University Press, 85–113, 2018.
- 098.** M. Brozovic, B. J. Butler, **J. L. Margot**, S. P. Naidu, and T. J. W. Lazio. [Planetary Bistatic Radar](#), In *Science with a Next Generation Very Large Array* (ed. C. Murphy), Astronomical Society of the Pacific, 113–123, 2018.
097. A. K. Verma* and **J. L. Margot**. [Expected Precision of Europa Clipper Gravity Measurements](#). *Icarus* **314**, 34–49, 2018.
096. **J. L. Margot**, A. H. Greenberg*, P. Pinchuk*, and 14 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.
095. M. Pajuelo and 26 co-authors. Physical, spectral, and dynamical properties of asteroid (107) Camilla and its satellites. *Icarus* **309**, 134–161, 2018.
094. 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.
093. 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.
092. D. M. Hastings*, D. Ragozzine, D. C. Fabrycky, L. D. Burkhart, 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.
091. 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.
090. 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.
089. 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**, 443–455, 2016.
- 088.** **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.
- 087.** 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.
086. **J. L. Margot**. [A Quantitative Criterion for Defining Planets](#). *Astronomical Journal* **150**, 185, 2015.
085. M. Perry and 17 co-authors. The low-degree shape of Mercury. *Geophysical Research Letters* **42**, 6951–6958, 2015.
084. 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**, 7881–7889, 2015.
083. 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**, 64–72, 2015.
082. A. H. Greenberg* and **J. L. Margot**. [Improved Algorithms for Radar-Based Reconstruction of Asteroid Shapes](#). *Astronomical Journal* **150**, 114, 2015.
081. **J. L. Margot**. [Insufficient Evidence of Purported Lunar Effect on Pollination in *Ephedra*](#). *Journal of Biological Rhythms* **30**, 454, 2015.
080. 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.
079. **J. L. Margot**. [No Evidence of Purported Lunar Effect on Hospital Admission Rates or Birth Rates](#). *Nursing Research* **64**, 168, 2015.
078. 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.

077. S. P. Naidu* and **J. L. Margot**. [Near-Earth Asteroid Satellite Spins Under Spin-Orbit Coupling](#). *Astronomical Journal* **149**, 80, 2015.
076. 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.
075. S. R. Chesley and 15 co-authors. Orbit and Bulk Density of the OSIRIS-REx Target Asteroid (101955) Bennu. *Icarus* **235**, 5, 2014.
074. 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.
073. P. A. Taylor and **J. L. Margot**. Tidal End States of Binary Asteroid Systems with a Nonspherical Component. *Icarus* **229**, 418, 2014.
072. 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.
071. 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.
070. 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.
069. J. Fang* and **J. L. Margot**. [Are Planetary Systems Filled to Capacity? A Study Based on Kepler Results](#). *Astrophysical Journal* **767**, 115, 2013.
068. J. Fang* and **J. L. Margot**. [Architecture of Planetary Systems Based on Kepler Data: Number of Planets and Coplanarity](#). *Astrophysical Journal* **761**, 92, 2012.
067. **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.
066. J. Fang*, **J. L. Margot**, P. Rojo. [Orbits, Masses, and Evolution of Main Belt Triple \(87\) Sylvia](#). *Astronomical Journal* **144**, 70, 2012.
065. 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.
064. L. A. Sromovsky and 16 co-authors. Episodic bright and dark spots on Uranus. *Icarus* **220**, 6, 2012.
063. J. Fang* and **J. L. Margot**. [Predicting Planets in Kepler Multi-Planet Systems](#). *Astrophysical Journal* **751**, 23, 2012.

062. M. Zuber and 25 co-authors. Topography of the Northern Hemisphere of Mercury from MESSENGER Laser Altimetry. *Science* **336**, 217, 2012.
061. D. E. Smith and 16 co-authors. Gravity Field and Internal Structure of Mercury from MESSENGER. *Science* **336**, 214, 2012.
060. J. Fang* and **J. L. Margot**. [The Role of Kozai Cycles in Near-Earth Binary Asteroids](#). *Astronomical Journal* **143**, 59, 2012.
059. J. Fang* and **J. L. Margot**. [Binary Asteroid Encounters with Terrestrial Planets: Timescales and Effects](#). *Astronomical Journal* **143**, 25, 2012.
058. J. Fang* and **J. L. Margot**. [Near-Earth Binaries and Triples: Origin and Evolution of Spin-Orbital Properties](#). *Astronomical Journal* **143**, 24, 2012.
057. 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.
056. 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.
055. 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.
054. M. W. Busch and 12 co-authors. Radar Observations and the Shape of Near-Earth Asteroid 2008 EV5. *Icarus* **212**, 649–660, 2011.
053. P. A. Taylor* and **J. L. Margot**. [Binary Asteroid Systems: Tidal End States and Estimates of Material Properties](#). *Icarus* **212**, 661–676, 2011.
052. P. Rojo and **J. L. Margot**. Mass and density of B-type asteroid (702) Alauda. *Astrophysical Journal* **727**, 69, 2011.
051. P. A. Taylor* and **J. L. Margot**. [Tidal Evolution of Close Binary Asteroid Systems](#). *Celestial Mechanics and Dynamical Astronomy* **108**, 315–338, 2010.
050. 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.
049. 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.
048. M. Yseboodt, **J. L. Margot**, S. J. Peale. Analytical model of the long-period forced longitude librations of Mercury. *Icarus* **207**, 536–544, 2010.
047. 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.
046. **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**, 183–188, 2010.

045. **J. L. Margot**. [A Mercury orientation model including non-zero obliquity and librations](#). *Celestial Mechanics and Dynamical Astronomy* **105**, 329–336, 2009.
044. 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.
043. 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.
042. S. J. Peale, **J. L. Margot**, M. Yseboodt. Resonant forcing of Mercury’s libration in longitude. *Icarus* **199**, 1–8, 2009.
- 041.** 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, 345–363, 2008.
- 040.** 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, 161–179, 2008.
039. L. A. M. Benner and 10 co-authors. Near-Earth asteroid surface roughness depends on compositional class. *Icarus* **198**, 294–304, 2008.
038. 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.
037. M. W. Busch and 10 co-authors. Physical properties of near-Earth Asteroid (33342) 1998 WT24. *Icarus* **195**, 614–621, 2008.
036. M. K. Shepard and 16 co-authors. Multi-wavelength observations of Asteroid 2100 Ra-Shalom. *Icarus* **193**, 20–38, 2008.
035. 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.
034. M. W. Busch and 15 co-authors. Physical modeling of near-Earth Asteroid (29075) 1950 DA. *Icarus* **190**, 608–621, 2007.
033. **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.
032. 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.
031. S. C. Lowry and 10 co-authors. Direct Detection of the Asteroidal YORP Effect. *Science* **316**, 272–274, 2007.
030. S. J. Peale, M. Yseboodt, **J. L. Margot**. Long Period Forcing of Mercury’s Libration in Longitude. *Icarus* **187**, 365–373, 2007.

029. 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.
028. 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.
027. 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.
026. 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.
025. 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.
024. 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.
023. 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.
022. 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.
021. 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.
020. M. Yseboodt* and **J. L. Margot**. [Evolution of Mercury’s Obliquity](#). *Icarus* **181**, 327–337, 2006.
019. P. Pravec and 56 co-authors. Photometric survey of binary near-Earth asteroids. *Icarus* **181**, 69–93, 2006.
018. 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.
017. 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.
016. S. J. Ostro and 15 co-authors. Radar observations of asteroid 25143 Itokawa (1998 SF36). *Meteoritics and Planetary Science* **39**, 407–424, 2004.
015. 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.
014. **J. L. Margot** and M. E. Brown. [A low-density M-type asteroid in the main belt](#). *Science* **300**, 1939–1942, 2003.
013. 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.
- 012.** 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.
- 011.** 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.
- 010.** D. B. Campbell, R. S. Hudson, **J. L. Margot**. Advances in Planetary Radar Astronomy. *Review of Radio Science*, URSI, 869–899, 2002.
009. **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.
008. **J. L. Margot**. Astronomy: Worlds of mutual motion. *Nature* **416**, 694–695, 2002.
007. 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.
006. 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.
005. S. J. Ostro, M. C. Nolan, **J. L. Margot**, C. Magri, A. W. Harris, J. D. Giorgini. Radar Observations of Asteroid 288 Glauke. *Icarus* **152**, 201–204, 2001.
004. **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.
003. 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.
002. **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.
001. **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.

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.
NSF Mid-Scale Research Initiative Grants review.
NASA Cassini Data Analysis Program reviews.
NASA Dawn at Vesta reviews.
NASA Exobiology reviews.
NASA Lunar Advanced Science and Exploration Research reviews.
NASA Near-Earth Object Observations review panels.
NASA Origins of Solar Systems reviews.
NASA Planetary Astronomy review panels.
NASA Planetary Geology and Geophysics reviews.
NASA Planetary Instrument Definition and Development reviews.
NASA Planetary Mission Data Analysis Program reviews.
NASA Solar System Observations reviews.
UK Research and Innovation Science and Technology Facilities Council review.

Journal Articles:

Acta Astronautica, 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, Philosophical Transactions A, Planetary and Space Science, Publications of the Astronomical Society of the Pacific, PLOS ONE, Public Health, Science.

Ph.D. Dissertations:

Mason MacDougall (2023).
Paul Pinchuk (2021, chair).
Jon Zink (2021).
Alec Vinson (2020).
Man-To Hui (2019).
Adam Greenberg (2017, chair).
Matthew Walker (2017).
Li-Wei Hung (2016).
Shantanu Naidu (2015, chair).
Shane Frewen (2015).
Sebastiano Padovan (2014, chair).
Julia Fang (2013, chair).
Carolyn Nugent (2013, chair).
Matt Siegler (2011).
Alex Parker (2011).
David Polishook (2011).
Patrick Taylor (2009, chair).

Data Sets:

NASA Planetary Data System Small Bodies Node, Arecibo Doppler Radar Spectra.

Observing Proposals:
Green Bank Telescope.

Invited Talks

Caltech Radio Seminar, Pasadena, Jan. 2025.
Royal Observatory of Belgium Seminar, Brussels, July 2024.
Paris Observatory Seminar Temps-Espace-Société, Paris, July 2024.
Green Bank Observatory Community Science Seminar, Dec. 2023.
Astrobiology Seminar, University of California, Riverside, Nov. 2023.
ETH Zurich Earth Sciences Distinguished Lecture, Fall 2023 (invited, unable).
Green Bank Observatory 65th Anniversary Colloquium series, Sept. 2022.
UC Berkeley Planetary Science Seminar, Mar. 2022.
Goddard Space Flight Center Technosignature Seminar, Feb. 2022.
Stanford Geophysics Department Seminar, Feb. 2022.
UCLA Earth, Planetary, and Space Sciences Planetary Science Seminar, Oct. 2021.
Penn State University SETI Seminar, Oct. 2021.
University of British Columbia Astronomy Colloquium, May 2021.
UCLA Earth, Planetary, and Space Sciences Colloquium, Los Angeles, CA, Apr. 2021.
Green Bank Observatory GBT@20 Celebration, Apr. 2021.
UCSD Institute of Geophysics and Planetary Physics Seminar, Apr. 2021.
Green Bank Observatory Seminar, Mar. 2021.
Cornell University Astronomy Colloquium, Feb. 2021.
Princeton IAS Astrophysics Seminar, Nov. 2020.
Peale Lecture, University of California, Santa Barbara, CA, Dec. 2019.
Royal Observatory of Belgium Seminar, Brussels, Sept. 2019.
Tokyo Institute of Technology, Earth-Life Science Institute Seminar, Ookayama, Mar. 2019.
Hong Kong University, Joint Earth Science and Physics Seminar, Hong Kong, Mar. 2019.
University of Central Florida Physics Colloquium, Orlando, FL, Mar. 2019.
Pathways to the Future of the Arecibo Observatory, San Juan, PR, Feb. 2019.
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.
Gordon Lecture, Cornell University, 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, Sept. 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.
UC Berkeley 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, Sept. 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.
40th Meeting of the NAIC Visiting Committee, Arecibo, PR, Oct. 1999.
Caltech Planetary Science Seminar, Pasadena, CA, Mar. 1998.
JPL SAR Interferometry and Polarimetry Forum, Pasadena, CA, Mar. 1998.

Research Grants

Atmospheric, Surface, and Interior Properties of Venus Revealed by Radar and Radio Science Observations ESA/NASA EnVision Science Working Team (SWT) Interdisciplinary Scientists

program, PI J. L. Margot, 2025–2028.

High-Precision Measurements of Planetary Rotation. NSF Astronomy and Astrophysics Research Grants, PI J. L. Margot, 2408493, 2024–2027.

In-Depth Investigation of the Physical and Dynamical Properties of Asteroid Systems. NASA Solar System Workings Program, PI J. L. Margot, 80NSSC23K0102, 2022–2025.

Are We Alone? A Citizen Science-Enabled Search for Technosignatures. NASA Citizen Science Seed Funding Program, PI J. L. Margot, 80NSSC22K1127, 2022–2023.

Are We Alone? A Citizen Science-Enabled Search for Technosignatures. Planetary Society STEP Grant, PI J. L. Margot, 21109, 2022–2024.

A search for technosignatures around newly discovered exoplanets. NASA Exoplanets Research Program, PI J. L. Margot, 80NSSC21K0575, 2021–2025.

Spin Axis Orientation and Length-Of-Day Variations of Venus. NASA Solar System Workings Program, PI J. L. Margot, 80NSSC20K0866, 2020–2023.

High-Precision Measurements of Planetary Rotation. NASA Solar System Observations Program, PI J. L. Margot, 80NSSC19K0870, 2019–2022.

Radar Asteroid Detection, Analysis, and Reporting. NASA Near Earth Object Observations Program, PI J. L. Margot, 80NSSC18K0850, 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.

Education and Public Outreach

Talk to Cub Scout Pack 223, “Are we alone in the universe?”, Dec. 9, 2024.

The Conversation, “[Carl Sagan’s scientific legacy extends far beyond ‘Cosmos’](#)”, Nov. 5, 2024.

UCLA Exploring Your Universe talk, “Are we alone in the universe?”, Nov. 3, 2024.

Daily Bruin interview, [What makes a planet?](#), Sept. 30, 2024.

AAS Journal Author Series, [Quantitative Criteria for Defining Planets](#), Sep 17, 2024.

La Libre Belgique interview, “[De huit à des milliards](#)”, Jul. 29, 2024.

EarthSky video interview, “[What is a planet?](#)”, Jul. 22, 2024.

Universe Today interview, “[Is it time to fix the definition of ‘Planet’?](#)”, Jul. 18, 2024.

Ciel et Espace interview, “[Définition d’une planète](#)”, Jul. 17, 2024.

LiveScience interview, “[Astronomers want to change how we define a planet](#)”, Jul. 17, 2024.

WBOY interview, “[Search for liquid oceans in our solar system](#)”, Jul. 18, 2024.

Radio Canada interview, “[Qu’est-ce qu’une planète?](#)”, Jul. 13, 2024.

Daily Bruin interview, “[A partial eclipse of the heart](#)”, Apr. 14, 2024.

Talk to UCLA Alumni and Friends, “The search for life in the universe”, Apr. 8, 2024.

Talk to UCLA Alumni and Friends, “The total solar eclipse of April 8, 2024”, Apr. 8, 2024.

Talk to Harvard and UCLA Alumni and Friends, “What really happened to Pluto”, Apr. 5, 2024.

LA Times interview, “[LA spots to watch the awe-inspiring solar eclipse](#)”, Apr. 5, 2024.

Forbes India, “[Totality ready: US braces for April 8 solar eclipse frenzy](#)”, Apr. 4, 2024.

USA Today Ask-Me-Anything on Reddit, [Total solar eclipse](#), Apr. 4, 2024.

LA Times interview, “[How to watch the solar eclipse from California](#)”, Apr. 1, 2024.

Washington Post interview, [Penumbral lunar eclipse](#), Mar. 22, 2024.

Talk for Town & Gown Affiliates of UCLA, “Eclipses”, Jan. 23, 2024.

Talk for A Space for Space and Wildwood High School, “UCLA SETI”, Jan. 12, 2024.

UCLA Exploring Your Universe talk, “Are we alone in the universe?”, Nov. 5, 2023.

Organized partial solar eclipse viewing party at public park, Oct. 14, 2023.

Vox interview, [How humans are searching for intelligent alien life](#), Oct. 12, 2023.

Talk describing eclipses to Kindergarten class, “Eclipses”, Oct. 5, 2023.

LA Times interview, [UFOs had their day in Congress](#), Aug. 4, 2023.

Business Insider interview, [Effect of satellite constellations on radio astronomy](#), July 17, 2023.

Daily Bruin interview, [UCLA SETI brings search for ET to everyday enthusiasts](#), June 11, 2023.

Radio interview for Australian Broadcasting Corporation, [“The Science Show”](#), May 26, 2023.

Presenter and panelist at Santa Monica Wildwood School, [“Alien Night”](#), May 13, 2023.

Talk at South Bay Astronomical Society, [“The search for life in the universe”](#), May 5, 2023.

Popular Science interview, [“Alien civilizations could send us messages by 2029”](#), Apr. 25, 2023.

Panelist for Citizen Science Month Celebration organized by CitizenScience.Gov, Apr. 25, 2023.

Bruin Space Speaker Series, [“The UCLA Search for Radio Technosignatures”](#), Apr. 13, 2023.

Keynote speaker at The Planetary Society [Welcome Festival](#), Mar. 18, 2023.

EFE interview, [“Buscan ET con inteligencia artificial y ayuda del público”](#), Mar. 8, 2023.

Spectrum News 1 interview, [“Are we alone in the universe?”](#), Feb. 28, 2023.

UCLA SETI citizen science platform launch [webinar](#), Feb. 16, 2023.

LAist interview, [“Help Find Extraterrestrial Life. Really”](#), Feb. 15, 2023.

Guest on The Planetary Society’s [Planetary Radio Podcast](#), Feb. 15, 2023.

LA Times interview, [“UCLA is asking for the public’s help in finding signs of ETP”](#), Feb. 2023.

LA Times interview, [“Are the recent UFOs possibly alien? Experts don’t think so”](#), Feb. 2023.

Launched citizen science collaboration <http://arewealone.earth>, Feb. 14, 2023.

Nature Magazine interview, [“Will an AI be the first to discover alien life?”](#), Jan. 30, 2023.

Scientific American interview, [“New Space Radar”](#), Jan. 16, 2023.

Talk promoting STEM to four- and five-year-olds, [“The Solar System”](#), Nov. 4, 2022.

American Public Media’s “Brains On” Podcast Interview, [“The Moon”](#), Sept. 19, 2022.

Talk to UCLA alumni and friends, [“Our Home in the Cosmos”](#), Aug. 13, 2022.

Talk to UCLA alumni and friends, [“Earth and Planetary Geology”](#), Aug 15, 2022.

Talk to UCLA alumni and friends, [“The Search for Life in the Universe”](#), Aug. 16, 2022.

Quanta Magazine interview, [“Secrets of the Moon’s Permanent Shadows”](#), Apr. 28, 2022.

KNX radio interview, [“A Beacon in the Galaxy”](#), Apr. 19, 2022.

Guest on The Planetary Society’s [Planetary Radio Podcast](#), Mar. 16, 2022.

NBC News interview, [“Should Pluto be a planet again?”](#), Dec. 30, 2021.

Digital Trends interview, [“The next 10 years will be the decade of Venus”](#), Sept. 11, 2021.

Talk promoting STEM to ten-year-olds, [“Life in the Universe”](#), Aug. 2, 2021.

The Conversation, [“Are there any planets outside of our solar system?”](#), Jul. 19, 2021.

Astronomy Mag. interview, [“What echoing radio waves taught us about Venus”](#), May 26, 2021.

The Elderllama Podcast interview, [“Aliens, Astrophysics, and Asteroid Impacts”](#), May 3, 2021.

Reuters interview, [“How long is the solar system’s longest day?”](#), May 3, 2021.

Daily Galaxy interview, [“Venus’s very long day”](#), May 3, 2021.

South China Morning Post interview, [“China should hunt asteroids with radar”](#), Feb. 4, 2021.

Science Alert interview, [“They All Came from Us”](#), Nov. 19, 2020.

Washington Post interview, [“Astronomers spy asteroid that has its own moon”](#), Feb. 13, 2020.

UCLA Exploring Your Universe talk, [“Life in the Universe”](#), Nov. 3, 2019.

Talk to UCLA alumni and friends, [“The Astronomy of Lost Civilizations”](#), Jul. 3, 2019.

Talk to UCLA alumni and friends, [“The Total Solar Eclipse of 2019”](#), Jun. 30, 2019.

Talk to UCLA alumni and friends, [“The Search for Life in the Universe”](#), Jun. 28, 2019.

UCLA Emeriti/Retiree Associations, [“Consulting for the Entertainment Industry”](#), Jun. 13, 2019.

UCLA panel moderator, [“Communicating Science Effectively in Today’s World”](#), May 21, 2019.

UCLA Alumni Association of Japan, [“The Search for Life in the Universe”](#), Mar. 25, 2019.

Melon Sci-Fi Conference, Hong Kong, [“Aliens on the Galactic Silk Road”](#), Mar. 23, 2019.

UCLA Alumni Association of Hong Kong, “Search for Life in the Universe”, Mar. 21, 2019.
 Talk at California State University, Northridge, Bianchi Planetarium, Mar. 1, 2019.
 UCLA EPSS panel moderator, “Plate tectonics”, Oct. 29, 2018.
 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”, Jun. 17, 2018.
 NYT interview, “Challenging What NASA Knows About Space Rocks”, Jun. 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 TV interview, “Does a full moon really impact hospitals?”, Sept. 5, 2017.
 Organized four-day trip to Oregon for total solar eclipse (36 participants), Aug. 21, 2017.
 Talk to UCLA alumni and friends, “The Great American Eclipse of 2017”, Aug. 19, 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”, Jun. 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.
 Talk 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.

Talk promoting STEM to nine-year-olds, “Life in the Universe”, Sept. 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 TV documentary, “Cosmic Front: Mystery of Mercury”, Dec. 25, 2014.

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

Organized Meteorite Hunting Expedition & Geology Tour for EPSS alumni, Apr. 26, 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’?](#)”, Sept. 28, 2013.

Web article, [How realistic is ‘Gravity’?](#), Sept. 28, 2013.

Improvements to ~300 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”, Sept. 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.
Science@NASA interview, “The Curious Tale of Asteroid Hermes”, Oct. 31, 2003.
Talk at California State University, Northridge, Bianchi Planetarium, Nov. 2, 2002.

Open-Source Software Contributions

[PFS](#) (lead)

[Radardecode](#) (lead)

Scipy

Spiceypy

Gatspy

Pyvax

SHAPE

GMTSAR

Baseband
Panoptes_analysis

Consulting for Entertainment Industry

Some details are omitted to adhere to NDAs and/or protect intellectual property.
Advised video game developers funded by Alfred P. Sloan Foundation Grant, 2025.
Advised director and production designer on exoworlds, 2024.
Advised screenwriter on novel adaptation, 2019.
Advised writer and director on an exoplanet-related story, 2018.
Advised screenwriter on a space adventure story, 2018.
Advised producer on the space adventure story *Ad Astra*, 2018.
Advised researcher on CBS's *Star Trek: Discovery*, 2017–2018.
Advised consulting producer on Netflix show *Brainchild*, 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 Netflix show *Lost in Space*, 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 Computing Committee Chair, Fall 2023–**present**.
EPSS Teaching Peer Review Committee, Fall 2023–**present**.
EPSS Representative to UCLA Legislative Assembly, Fall 2023–**present**.
EPSS Academic Personnel Ad Hoc Committees, Fall 2023.
EPSS Academic Personnel Ad Hoc Committee, Spring 2022.
UCLA Anderson Applied Management Research Program Judge, March 2022.
EPSS Academic Personnel Ad Hoc Committee, Fall 2022.
EPSS Academic Personnel Ad Hoc Committee, Fall 2020.
EPSS Faculty Mentor, Fall 2018–**present**.
UCLA Science Learning Center Advisory Committee, Fall 2016–Spring 2023.
EPSS Chair, Summer 2016–Spring 2019.
EPSS Development Committee, Summer 2016–Spring 2022.
EPSS Space Committee, Summer 2016–Summer 2023.
EPSS IT / Computing Committee, Summer 2016–Spring 2019.
EPSS Website Committee, Summer 2016–Spring 2019.
EPSS Undergraduate Student Relations and Awards Committee, Summer 2016–Spring 2019.
UCLA Council of Advisors, Winter 2016–Summer 2020.
EPSS Academic Personnel 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 Academic Personnel Ad Hoc Committee, Fall 2014.

EPSS Curriculum Committee, Fall 2014–Spring 2019.
 EPSS Graduate Student Relations and Awards Committee, Fall 2014–Spring 2019.
 EPSS Staff Awards Committee, Fall 2014–Spring 2019.
 EPSS Safety Committee, Fall 2014–Spring 2019.
 EPSS Event Planning Committee, Fall 2014–Spring 2018.
 EPSS Emeriti Relations Committee, Fall 2014–Spring 2016.
 EPSS Web Site / IT Support Committee, Fall 2014–Spring 2016.
EPSS Vice Chair, Summer 2014–Spring 2016.
 Rewrote (with K. McKeegan) Program Requirements for M.S. and Ph.D., Winter–Spring 2014.
 EPSS Academic Personnel Ad Hoc Committee, Fall 2013.
 EPSS Alumni Relations and Fundraising Committee, Fall 2013–Spring 2016.
 EPSS Academic Personnel Ad Hoc Committee, Fall 2012.
 EPSS Qualifying Exams Committee Co-Chair, Fall 2012–Spring 2013.
 UCLA Meteorite Collection Advisory Committee, Spring 2012–Spring 2019.
 EPSS Eight-year Review Preparation Committee, Spring 2012.
 EPSS White Paper for Planetary Science at UCLA, Spring 2012.
 EPSS Academic Personnel 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 Academic Personnel Ad Hoc Committees (2), Fall 2010.
 Astronomy Graduate Curriculum Review Committee, 2010.
 EPSS Faculty Relations Committee, 2010–2011.
 EPSS Academic Personnel 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

NRAO ngRADAR Science Advisory Council, 2023–**present**.
IAU Working Group on Cartographic Coordinates and Rotational Elements, 2018–**present**.
SETI Permanent Committee of the International Academy of Astronautics, 2018–**present**.
Board member, Arecibo Science Advocacy Partnership, 2016–2021.
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, 2014–2018, now Senior Flight Dynamics Engineer at Omitron, Inc.
Michael W. Busch, 2010–2012, now Research Scientist at SETI Institute.
Marie Yseboodt, 2004–2006, now tenured Researcher at Royal Observatory of Belgium.

Graduate Students:

Tunhui Xie, Fall 2024–**present**.
Megan Li, Spring 2022–**present**.
Brandon Coy, Fall 2022–Spring 2023.
Emily Whittaker (they/them), Fall 2021–**present**.
Sanjana Prabhu Desai, Fall 2017–**present**.
Paul Pinchuk, Ph.D. 2021, now Researcher at National Renewable Energy Laboratory.
Adam H. Greenberg, Ph.D. 2017, now Technical Fellow at Raytheon.
Danielle Hastings, M.S. 2017.
M. Oliver Bowman, M.S. 2016.
Shantanu P. Naidu, Ph.D. 2015, now Staff Scientist at NASA JPL.
Sebastiano Padovan, Ph.D. 2014, now Precise Orbit Determination Engineer at Eumetsat.
Julia A. Fang, Ph.D. 2013, now Staff Scientist at MIT Lincoln Laboratory.
Carolyn Nugent, Ph.D. 2013, now Assistant Professor at Olin College.
Patrick A. Taylor, Ph.D. 2009, now Radar Division Head at NRAO.
Phattarapong Chantararat, M.S.E.E. 2005, now works in finance in Bangkok.

Undergraduate Students:

Alexander Koron, Fall 2024–**present**.
Liam Rindt, Winter 2023–**present**.
Jeremy Lin, Winter 2023–Spring 2024.
Ella Friess, Winter 2023–Spring 2024.
Jaylind Gray, Winter 2023–Summer 2023.
Priscella Yun, Winter 2023–Spring 2023.

Andy He, Summer 2021–Spring 2022.
Emery Grahill-Bland, Summer 2021–Spring 2022.
Robert Geil, Winter 2020–Spring 2021.
Adrian Lam, Winter 2019–Summer 2024.
Myank Singhal, Fall 2018–Spring 2019.
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:

Tony Yang, Winter 2024–Fall 2024.
Kevin Lu, Summer 2018.

Professional Organizations

American Astronomical Society (Planetary Sciences, Dynamical Astronomy).
American Geophysical Union (Planetary Sciences Section, Geodesy Section).
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.