Curriculum Vitae

– Bryce Theodore Bolin –

(he/him/his)

Eureka Scientific, Inc.
2452 Delmer Street
Oakland, CA 94602

bbolin@eurekasci.com
+1 (626) 905-4371
https://www.bolinastro.com/
ORCID: 0000-0002-4950-6323

EDUCATION

Université Côte d'Azur – Ph.D. *in Sciences de la Planete et de l'Univers, December 2018*
l'Ecole Doctorale Sciences Fondamentales et Appliquées, ED.SFA (ED 364)
Thesis topic: Identifying asteroid families older than 2 billion years
Supervisors: **Alessandro Morbidelli** (morby@oca.eu) *and* **Marco Delbo** (marco.delbo@oca.eu)

University of Central Florida – M.S. *in Physics*
Department of Physics, College of Sciences

University of Florida – B.S. *in Physics*
Department of Physics, College of Liberal Arts & Sciences

RESEARCH INTERESTS & SKILLS

Research Interests

Application of data science methods for the discovery and characterization of asteroids and comets
Measuring the physical properties of asteroids and comets from optical and near-infrared observations
Formation of planetesimals and their implication in the formation of planetary systems
Dynamics of Solar System small-body populations, including asteroids and comets

Skills

Extensive programming experience in **Python**
Proficiency in **Bash**, **C**, **Fortran**, **IDL**, **Linux**, **Perl**, **IRAF**, **MySQL**, N-body integrators **SWIFT** and **REBOUND**

Professional Societies

American Astronomical Society, Division for Dynamical Astronomy, Division for Planetary Science, European Geosciences Union, Royal Astronomical Society, British Astronomical Association, Los Angeles Astronomical Society

EMPLOYMENT HISTORY

2024 – present	**Research Scientist,** Eureka Scientific, Inc.
2022 – 2024	**NASA Postdoctoral Program Fellow,** NASA Goddard Space Flight Center
2019 – 2022	**Postdoctoral Scholar,** Div. of Phy., Math. and Astro., Cal. Inst. of Tech.
2018 – 2019	**Postdoctoral Fellow,** B612 Asteroid Institute/University of Washington
2017 – 2018	**Visiting Researcher,** B612 Asteroid Institute/University of Washington
2014 – 2018	**Doctorant en astrophysique,** Université Côte d'Azur
2013	**Adjunct Instructor,** Honolulu Community College
2012 – 2014	**NEO Research Analyst,** Institute for Astronomy, Univ. of Hawai'i at Mānoa
2011 – present	**Adjunct Instructor,** Valencia College
2009 – 2011	**Graduate Teaching Assistant,** University of Central Florida

GRANTS, AWARDS AND HONORS

Total amount awarded: $2.65M USD (**as PI:** $1.24M USD | **as co-I:** $1.41M USD)

2026 - **Nancy Grace Roman Space Telescope** *Cycle 1*, Analysis - 19035, co-I ($450,000)
"Recovering NEO Streaks from Roman WFI Data for Planetary Defense"
2026 - **Keck Principal Investigator Data Award**, co-I ($14,750)
"Constraining the taxonomy of Neptunian Trojans in the NIR"
2026 - **Royal Astronomical Society**, Elected Fellow
2026 - **James Webb Space Telescope** *Cycle 5*, Guest Observer - 11464, PI ($139,256)
"A spectroscopic test of the origins of Earth co-orbitals with JWST/NIRSpec"
2026 - **Hubble Space Telescope** *Cycle 33*, Guest Observer - 18071, PI ($33,924)
"Confirming distantly-active long period comets on retrograde orbits beyond 20 au"
2026 - **James Webb Space Telescope** *Cycle 4*, Director's Discretionary Time - 12488, PI ($35,000)
"Testing the volatile variability of fragmenting Oort cloud comet C/2025 K1 ATLAS"
2026 - **James Webb Space Telescope** *Cycle 4*, Director's Discretionary Time - 9442, co-I ($35,000)
"MIRI MRS Observations of the Third Interstellar Object"
2025 - **Keck Principal Investigator Data Award**, co-I ($16,300)
"Constraining the taxonomy of Neptunian Trojans in the NIR"
2025 - **James Webb Space Telescope** *Cycle 4*, Guest Observer - 9260, PI ($103,617)
"Multi-Cycle monitoring of the volatile evolution of a returning planetesimal as it approaches perihelion"
2025 - **Gordon Research Conference and Seminar** ($995)
2024 - **Keck Principal Investigator Data Award**, PI ($16,300)
"Constraining the taxonomy of Neptunian Trojans in the NIR"
2024 - **James Webb Space Telescope** *Cycle 3*, Guest Observer - 6518, PI ($129,122)
"Multi-Cycle monitoring of the volatile evolution of a returning planetesimal as it approaches perihelion"
2024 - **Meteoritical Society Travel Fund** ($833)
2023 - **James Webb Space Telescope** *Cycle 2*, Guest Observer - 4198, PI ($207,843)
"Multi-Cycle monitoring of the volatile evolution of a returning planetesimal as it approaches perihelion"
2023 - **Gordon Research Conference and Seminar** ($1,155)
2023 - **James Webb Space Telescope** *Cycle 1*, Director's Discretionary Time - 2747, PI ($49,999)
"The Volatile Content of Oort Cloud Comet C/2014 UN271"
2022 - **NASA Postdoctoral Program Fellowship**, PI ($252,000)
"Prospecting for the Solar System's Original Planetesimals"
2022 - **Hubble Space Telescope** *Cycle 29*, Guest Observer - 16878, PI ($88,911)
"Determining the coma contents of the incoming Oort Cloud comet C/2014 UN271"
2021 - **Asteroid (42177) 2001 CL_{22}** named Bolin
2021 - **JPL/Caltech Presidents and Directors Research and Development Fund**, co-I ($200,000)
"Synthetic tracking follow-up of Zwicky Transient Facility Near-Earth Object candidates"
2021 - **Jet Propulsion Laboratory HBCU/MSI partnership**, co-I ($50,000)
"Follow-up of Near-Earth Objects"
2021 - **NASA Yearly Opportunities for Research in Planetary Defense**, co-I ($641,005)
"NEO Discovery and Study with the Zwicky Transient Facility (ZTF)"
2020 - **Hubble Space Telescope** *Cycle 27*, Guest Observer - 16077, PI ($49,117)
"Determining the cause of activity of the first active Trojan, 2019 LD2"
2020 - **Hubble Space Telescope** *Cycle 27*, Guest Observer - 16040, PI ($94,943)
"Constraining the coma volatile content of interstellar comet 2I/Borisov"
2019 - **NASA Small Bodies Assessment Group Early Career Travel Award** ($1,000)

2016 - **Europlanet Travel Bursary** (€450)
2014 - **Contrat Doctoral de l'Université Côte d'Azur** (€45,000)

ADVISING & TEACHING

Advising and Mentoring

Students supervised and co-supervised:

Chen-Yen Hsu, Ph.D. student at National Central University, with Dr. Zhong-Yi Lin, Prof. Wing Ip on observations of solar system objects, 2020 - present.

Carl Ingebretsen, Ph.D. at Johns Hopkins University with Dr. Christine Chen and Prof. Meredith MacGregor on spectroscopic characterization of Earth impactors and interior Earth objects, 2024 - present.

Matthew Belyakov, Ph.D. student at the California Institute of Technology with Prof. Michael Brown on physical characterization of distant solar system and interstellar objects, 2024 - 2026. Now a postdoctoral researcher at the California institute of Technology.

Laura-May Abron, lead at Griffith Observatory on the multiwavelength spectroscopic characterization of Main Belt and near-Earth objects, 2024 - 2026.

Mehul Ghosal, undergraduate student at the University of Hawai'i at Mānoa, with Dr. Robert Jedicke on rotational lightcurves of meter-scale near-Earth asteroids, 2021 - 2023. Now a Master's student in education at the American Museum of Natural History.

Vishwajeet Swain, Ph.D. student at the Indian Institute of Technology, Bombay, with Prof. Varun Bhalerao on observations of small Solar System bodies with the Zwicky Transient Facility, 2021 - 2022.

Kritti Sharma, undergraduate student at the Indian Institute of Technology, Bombay, with Prof. Varun Bhalerao on observations of near-Earth asteroids with the Zwicky Transient Facility, 2020 - 2022. Now a graduate student in astronomy at Caltech.

Yu-Li Cheng, Master's student at National Central University, with Dr. Zhong-Yi Lin on observations of near-Earth asteroids with the Zwicky Transient Facility, 2020 - 2022.

Josiah Purdum, Master's student at San Diego State University with Prof. Robert Quimby on observations of active asteroid Gault, 2019 - 2022. Now a Telescope Operations Engineer at the California Institute of Technology.

Kunal Deshmukh, undergraduate student at the Indian Institute of Technology, Bombay with Prof. Varun Bhalerao on observations of near-Earth asteroids with the Zwicky Transient Facility, 2019 - 2021. Now a graduate student in astronomy at KU Leuven.

Christina Lindberg, postgraduate at the University of Washington, with Dr. Daniela Huppenkothen on on Gaussian-process analysis of asteroid light curves, 2018 - 2021. Now a Graduate Student in Astronomy at Johns Hopkins University.

Bryce Kalmbach, graduate student at the University of Washington, with Prof. Andrew J. Connolly on Kuiper Belt object detection, 2018 - 2019. Now a Postdoctoral Researcher in Astronomy at the University of Washington.

Allison Bratcher, undergraduate student at the University of Central Florida, with Prof. Josh Colwell on UVIS stellar occultation research, 2011. Now a Data Scientist at Cromulence.

Classroom Experience

PH PH556, Guest Lecturer, *Introduction to Astrophysics*, Undergraduate and Graduate Level Course, Department of Physics, Indian Institute of Technology Bombay, Spring 2021

PHYS 51V, Course Instructor, *Introductory Applied Physics*, Undergraduate Level Course, Department of Natural Sciences, Honolulu Community College, Spring 2013

AST 1002, Course Instructor, *Introduction to Astronomy*, Undergraduate Level Course, Department of Sciences, Valencia College, Summer 2011 - present

PHY 2049L, Laboratory Instructor, *Physics for Engineers II Lab*, Undergraduate Level Course, Department of Physics, University of Central Florida, Fall 2010 - Spring 2011

PHY 2049HL, Laboratory Instructor, *Honors Physics for Engineers II Lab*, Honors College Undergraduate Level Course, Department of Physics, University of Central Florida, Spring 2011

PHY 2060L, Laboratory Instructor, *General Physics Lab*, Undergraduate Level Course, Department of Physics, University of Central Florida, Spring 2010 - Summer 2010

SERVICE & OUTREACH

Leadership

LSST Informatics & Statistics Science Collaboration Publication Committee member (2025 - present)
Keck Wide-Field Imager Scientific Advisory Committee member (2021 - present)
Zwicky Transient Facility Solar System Working Group Lead (2020 - 2022)
LSST Solar System Science Collaboration Inner Solar System Working Group Lead (2019 - 2021)
Committee for Accessibility Rights and Equity (CARE) member (2026 - present)
GPI2.0 Exoplanet-forming Disks team (GPIED) member (2026-present)

Professional Service

JWST Telescope Allocation Committee Solar System panelist (2024-2025)
NASA Keck Telescope Allocation Committee Solar System panelist (2024-2025)
National Science Foundation Planetary Science review panelist (2024-2025)
JWST external reviewer for Large and Director's Discretionary proposals (2023 - present)
NOIRLab Time Allocation Committee Solar System panelist (2023-present)
JWST General Observer proposal reviewer (2023 - present)
External reviewer for the Israeli Ministry of Innovation, Science and Technology (2022)
External reviewer for the National Science Center, Poland (2021 - present)
External reviewer for the National Research, Development and Innovation Office, Hungary (2020)
Grant reviewer for the Austrian Science Fund (2019)
HST General Observer and Director's Discretionary proposal reviewer (2019 - present)
Gemini Fast Turnaround program reviewer (2019 - present)
Peer-reviewed journal referee for 41 papers (2016–present):

- Publications of the Astronomical Society of Japan
- Advances in Space Research
- The Astronomical Journal
- Astronomy & Astrophysics
- The Astrophysical Journal Letters
- Icarus
- Monthly Notices of the Royal Astronomical Society
- Nature Astronomy
- New Astronomy
- The Planetary Science Journal
- Planetary and Space Science
- Publications of the Astronomical Society of the Pacific

Outreach

Public Outreach Talks:

Laguna Woods Astronomy Club, Exploration of interstellar objects and other exotic asteroids and comets, Laguna Woods, California (June 2026)
Shadow the Scientist, Keck MOSFIRE Investigation of Neptunian Trojans and Earth co-Orbitals part II, Maunakea, Hawai'i (February 2026)
Shadow the Scientist, Keck MOSFIRE Investigation of Neptunian Trojans and Earth co-Orbitals part I, Maunakea, Hawai'i (February 2026)
3I/ATLAS, Negocios TV, Madrid, Spain (November 2025)
All Space Considered, Griffith Observatory, Los Angeles, California (November 2025)
Exploring Your Universe, Los Angeles, California (November 2025)
Truth Be Told, Interstellar Visitors, Burbank, California (October 2025)
David Reitzel Astronomy, 3I/ATLAS Revealed!, Los Angeles, California (October 2025)
Shadow the Scientist, Observing on the Gemini South Telescope, Cerro Pachón, Chile (August 2025)
Planetary Radio, 3I/ATLAS: The third interstellar object ever found, The Planetary Society (August 2025)
Shadow the Scientist, Observing on the Keck Telescope, Maunakea, Hawai'i (July 2025)
Laguna Woods Astronomy Club, Observing on the Keck Telescope, Laguna Woods, California (April 2025)
Shadow the Scientist, Observing on the Keck Telescope, Maunakea, Hawai'i (February 2025)
Q&A with Astronomer and Waimea Country School students, Gemini North Hilo Base Facility, NOIRLab, Hilo, Hawai'i (February 2025)
Shadow the Scientist, Observing on the Keck Telescope, Maunakea, Hawai'i (January 2025)
Planetary ReaCH Culturally Inclusive Planetary Engagement Workshop, Boys and Girls Club of America, Burbank, California (Fall 2024)
Los Angeles Astronomical Society Star Party, Los Angeles, California (Fall 2024)
Shadow the Scientist, Dedicated Session for Science Internship Program Participants Confirmation (June 2024)
Shadow the Scientist, Observing at the NASA Infrared Telescope Facility, Maunakea, Hawai'i (May 2024)
Shadow the Scientist, Santa Cruz Science Internship, Santa Cruz, California (March 2024)
Pint of Science, Santa Monica, California (Spring 2024)
Nerd Nite, Venice Beach, California (Spring 2024)
Shadow the Scientist, University of California, Santa Cruz, California (Spring 2024)
Royal Astronomical Society of Canada, London, Ontario (Spring 2023)
Star Party, Sir Isaac Brock Public School, London, Ontario (Fall 2022)
Guest Lecture, Indian Institute of Technology Bombay, Mumbai, India (Spring 2021)
B612 Foundation Quarterly Webinar, Mountain View, CA (May 2018)
La Nuit Coupoles Ouvertes, Caussols, France (October 2017)
Asteroid Day Luxembourg, Luxembourg City, Luxembourg (June 2017)
La Nuit Coupoles Ouvertes, Caussols, France (June 2015)
Honolulu Zoo Educational Star Party, Honolulu, HI (July 2013)
Institute for Astronomy Open House, Honolulu, HI (April 2013)
Institute for Astronomy Comet Pan-STARRS viewing, Honolulu, HI (March 2013)
Holy Nativity School Star Party, Honolulu, HI (February 2013)
Bernice Pauahi Bishop Museum Star Party, Honolulu, HI (January 2013)

Conference Support

15th Asteroids Comets, and Meteors meeting session chair (July 2026)
247th American Astronomical Society meeting session chair (January 2026)
247th American Astronomical Society Chambliss poster reviewer (Fall 2025)
247th American Astronomical Society meeting abstract sorter (Fall 2025)

EPSC-DPS Joint Meeting 2025 Outstanding Poster Contest, Division for Planetary Science 2025, Helsinki, Finland (Fall 2025)
Co-convener, Division for Planetary Science 2025, Helsinki, Finland (Fall 2025)
Session chair, Division for Planetary Science 2024, Boise, Idaho (Fall 2024)
Session chair, Asteroids, Comets and Meteors 2023, Flagstaff, Arizona (Summer 2023)
Session chair, American Astronomical Society, DPS meeting 54, London, Ontario (Fall 2022)
Registration, Conference for Undergraduate Women in Physics, Seattle, WA (January 2019)
Session monitor, 20th Meeting of the NASA Small Bodies Assessment Group (January 2019)
Session monitor, Division for Planetary Sciences (October 2017)
Session monitor, Division for Planetary Sciences (October 2016)
Session monitor, Division for Planetary Sciences (October 2013)
Session monitor, Division for Planetary Sciences (October 2012)
Volunteer Judge, Hawai'i State Science Fair (April 2012)
Session monitor, The Next-Generation Suborbital Researchers Conference (February 2011)

SELECTED PRESS RELEASES AND MEDIA COVERAGE

9. "Gemini North Color Images Reveal Greenish Glow of Comet 3I/ATLAS", NOIRLab press release, December 12, 2025, [Link].
8. "Gemini South Observes Shape and Origin of Near-Earth Asteroid 2024 YR4", NOIRLab press release, April 8, 2025, [Link].
7. "What the asteroid with a 1-in-48 chance of hitting Earth in 2032 looks like", space.com, February 14, 2025, [Link].
6. "The Story Behind a Once-in-a-Lifetime Green Comet That's About to Fly Past Earth", Time Magazine, January 31, 2023, [Link].
5. "First inter-Venusian Asteroid Hints at a New Population", Sky & Telescope, August 25, 2022, [Link].
4. "Comet Makes a Pit Stop Near Jupiter's Asteroids", NASA News Releases, February 25, 2021, [Link].
3. "Tiny Asteroid Buzzes by Earth the Closest Flyby on Record", NASA News Releases, August 18, 2020, [Link].
2. "It Came From Outside Our Solar System and Now It's Breaking Up", The New York Times, April 7, 2020, [Link].
1. "Alien comets may be common, object from beyond Solar System suggests", Science, October 29, 2019, [Link].

INVITED TALKS

3. San Diego State University, Doc Morris Public Lecture, invited public talk, "Exploration Of Interstellar Visitors and what they Reveal About Extrasolar Systems", San Diego, California, April 24, 2026
2. University of Arizona, Dust Devils in the Sonoran Desert, invited review talk, "Debris disks put into context: The Solar system as a debris disk", Tucson, Arizona, March 28, 2024
1. 20th Meeting of the NASA Small Bodies Assessment Group, Lunar and Planetary Institute, invited early career talk, "Identification of a primordial asteroid family constrains the original planetesimal population", Houston, Texas, January 29, 2019

INVITED COLLOQUIA & SEMINAR TALKS

43. Canlis, Keck Donor Salon, Seattle, Washington, May 15, 2026
42. The Vi at La Jolla, Keck Donor Salon, San Diego, California, April 30, 2026
41. University of California, Los Angeles, Astronomy Tuesday Talk, Los Angeles, California, March 10, 2026
40. Observatoire de la Côte d'Azur, Théorie et Observations en Planétologie Seminar, Nice, France, February 26, 2026
39. Institute for Astronomy, University of Hawai'i at Mānoa, Astrocoffee, Honolulu, Hawai'i, February 4, 2026
38. W. M. Keck Observatory Headquarters, Donor Salon, Waimea, Hawai'i, January 29, 2026
37. W. M. Keck Observatory Headquarters, Lunch Seminar, Waimea, Hawai'i, January 29, 2026
36. Gemini North Hilo Base Facility, NOIRLab, Gemini North Talks, Hilo, Hawai'i, October 28, 2025
35. Observatoire de la Côte d'Azur, Théorie et Observations en Planétologie Seminar, Nice, France, July 17, 2025
34. Gemini North Hilo Base Facility, NOIRLab, Gemini North Talks, Hilo, Hawai'i, February 10, 2025
33. Department of Astronomy, University of Maryland, Planetary Astronomy Lunchtime Seminar, College Park, Maryland, January 27, 2025
32. Institute for Astronomy, University of Hawai'i at Mānoa, Astronomy Colloquium, Honolulu, Hawai'i, November 13, 2024
31. Herzberg Astronomy and Astrophysics Research Centre, Astrophysics Seminar, Victoria, British Columbia, April 4, 2024
30. NOIRLab Gemini North Hilo Base Facility, Gemini North Talks, Hilo, Hawai'i, February 20, 2024
29. Canada France Hawai'i Telescope, Astronomy Colloquium, Waimea, Hawai'i, February 15, 2024
28. Leicester University, Planetary Science Seminar, Leicester, England, January 29, 2024
27. Goddard Space Flight Center, Planetary Systems Laboratory Seminar, Greenbelt, Maryland, January 10, 2024
26. Observatoire de la Côte d'Azur, Théorie et Observations en Planétologie Seminar, Nice, France, December 14, 2023
25. Steward Observatory, University of Arizona, Origins Seminar, Tucson, Arizona, November 21, 2023
24. Southwest Research Institute, *Lucy* Science Team Meeting, Boulder, Colorado, May 11, 2023
23. National Optical-Infrared Astronomy Research Laboratory, Friday Lunch Astrophysics Seminar Hour, Tucson, Arizona, April 21, 2023
22. Space Telescope Science Institute, Exoplanets, Star and Planet Formation Seminar, Baltimore, Maryland, March 6, 2023
21. Royal Astronomical Society of Canada, London Centre Monthly Meeting, London, Ontario, February 17, 2023

20. Institute for Astronomy, University of Hawai'i at Mānoa, Astrocoffee, Honolulu, Hawai'i, September 16, 2022
19. Lawrence Livermore National Laboratory, Space Science Institute Seminar, Livermore, California, April 5, 2022
18. Harvard & Smithsonian, Center for Astrophysics, Stars and Planets Seminar, Cambridge, Massachusetts, February 9, 2022
17. Observatoire de la Côte d'Azur, Théorie et Observations en Planétologie Seminar, Nice, France, September 16, 2021
16. National Optical-Infrared Astronomy Research Laboratory, Friday Scientific Lunch Talk, Tucson, Arizona, September 3, 2021
15. Institute for Astronomy, University of Hawai'i at Mānoa, Astronomy Colloquium, Honolulu, Hawai'i, April 14, 2021
14. IPAC/California Institute of Technology, IPAC Seminar, Pasadena, California, February 17, 2021
13. California Institute of Technology, Division of Geological and Planetary Sciences Seminar, Pasadena, California, January 26, 2021
12. Jet Propulsion Laboratory, Astrophysics Seminar, Pasadena, California, November 19, 2020
11. Observatoire de la Côte d'Azur, Théorie et Observations en Planétologie Seminar, Nice, France, September 10, 2020
10. California Institute of Technology, IPAC, Greater IPAC Science Symposium, Pasadena, California, August 24, 2020
9. California Institute of Technology, Division of Geological and Planetary Sciences Seminar, Pasadena, California, November 12, 2019
8. San Diego State University, Astronomy Colloquium, San Diego, California, October 4, 2019
7. University of California, Los Angeles, Planetary Science Seminar, Los Angeles, California, October 3, 2019
6. Observatoire de la Côte d'Azur, Théorie et Observations en Planétologie Seminar, Nice, France, March 21, 2019
5. University of Washington, Department of Astronomy Colloquium, Seattle, Washington, October 4, 2018
4. University of Washington, DIRAC seminar, Seattle, Washington, March 24, 2017
3. University of Helsinki, Department of Physics Seminar, Helsinki, Finland, January 15, 2016
2. Observatoire de la Côte d'Azur, Théorie et Observations en Planétologie Seminar, Nice, France, May 21, 2015
1. Observatoire de la Côte d'Azur, Théorie et Observations en Planétologie Seminar, Nice, France, October 14, 2014

CONTRIBUTED CONFERENCE TALKS

50. *Comprehensive visible and near-infrared characterization of 3I/ATLAS during its encounter with the Solar System*, Keck Science Meeting, The Hague, The Netherlands, September 9, 2026

49. *Comprehensive visible and near-infrared characterization of interstellar object 3I/ATLAS during its encounter with the Solar System*, Keck Science Meeting, Pasadena, California, September 4, 2026

48. *Monitoring activity in dynamically new comets*, Seventh International Workshop on Cometary Astronomy, Madrid, Spain, August 14, 2026

47. *Synthesis of solar system, debris disk, and interstellar object physical properties*, Exploring Planetary Systems Workshop, Honolulu, Hawai'i, August 4, 2026

46. *Synthesis of solar system, debris disk, and interstellar object physical properties*, Debris Disk Connections 2026, Cambridge, England, July 16, 2026

45. *Comprehensive visible and near-infrared characterization of 3I/ATLAS during its encounter with the Solar System*, American Astronomical Society Meeting 248, Pasadena, California, June 17, 2026

44. *Characterization of Interstellar Asteroid 3I/ATLAS During Its Encounter with the Solar System*, American Astronomical Society Meeting 248 Press Release, Pasadena, California, June 16, 2026

43. *Deep learning methods to identify comets in optical wide field imaging data*, Rubin ISSC Collaboration Meeting, Pasadena, California, March 23, 2026

42. *The volatile content of giant Oort cloud comet C/2014 UN271 during its return to the planetary region*, American Astronomical Society Meeting 247, Tucson, Arizona, January 6, 2026

41. *Keck characterization of interstellar objects and other anomalous solar system bodies*, Keck Science Meeting, Los Angeles, California, September 18, 2025

40. *Twilight Discovery of near-Sun Asteroids and Naked-eye Comets at Palomar Observatory*, LSST@Europe 7, Poznań, Poland, September 15, 2025

39. *The volatile content of giant Oort cloud comet C/2014 UN271 during its return to the planetary region*, EPSC-DPS conference, Helsinki, Finland, September 9, 2025

38. *Interstellar comet 3I/ATLAS and twilight discovery of asteroids and comets*, ADASSx Monsoon conference, University of Arizona, Tucson, Arizona, August 3, 2025

37. *The Volatile Content of Giant Oort Cloud Comet C/2014 UN271 during its Return to the Planetary Region*, Origin and Evolution of the Oort Cloud, Stockholm, Sweden, June 4, 2025

36. *The volatile contents of Oort Cloud planetesimal C/2014 UN271*, American Astronomical Society, AAS meeting 224, National Harbor, Maryland, January 16, 2025

35. *The volatile contents of Oort Cloud planetesimal C/2014 UN271*, *JWST* Solar System Workshop, Meudon, France, January 10, 2025

34. *The volatile contents of Oort Cloud planetesimal C/2014 UN271*, American Astronomical Society, DPS meeting 56, Boise, Idaho, October 10, 2024

33. *Against the Fall of Night: searching for near-Sun asteroids and comets in the twilight sky*, LSST Solar System Readiness Sprint 2024, Astrophysics sub-department, Oxford, United Kingdom, September 25, 2024

32. *The Robots and Us: using AI to assist the discovery of comets*, LSST Solar System Readiness Sprint 2024, Astrophysics sub-department, Oxford, United Kingdom, September 25, 2024

31. *Palomar Twilight Observations of 'Ayló'chaxnim, Atiras and Comets*, Rubin Community Workshop 2024, Stanford Linear Accelerator Center, Menlo Park, California, July 23, 2024

30. *The volatile contents of giant Oort cloud planetesimal C/2014 UN271*, British Planetary Science Conferenece, University of Leicester, Leicester, United Kingdom, June 19, 2024

29. *A new asteroid family as a potential source of L-chondrites*, Impact Workshop, University of Rochester, Rochester, New York, April 9, 2024

28. *The Volatile Content of Giant Oort Cloud Comet C/2014 UN271 During Its Return to the Planetary Region*, Oak Ridge Associated Universities Site Visit, Goddard Space Flight Center, Greenbelt, Maryland, October 26, 2023

27. *The Volatile Content of Giant Oort Cloud Comet C/2014 UN271 During Its Return to the Planetary Region*, American Astronomical Society, DPS meeting 55, San Antonio, Texas, October 5, 2023

26. *The Volatile Content of Giant Oort Cloud Comet C/2014 UN271 During Its Return to the Planetary Region*, Active Bodies in the Solar System, Stará Lesná, Slovakia, September 8, 2023

25. *The Volatile Content of Giant Oort Cloud Comet C/2014 UN271 During Its Return to the Planetary Region*, Asteroids, Comets and Meteors, Flagstaff, Arizona, June 22, 2023

24. *(594913) 'Ayló'chaxnim , a kilometer-scale asteroid inside Venus' orbit*, American Astronomical Society, DPS meeting 54, London, Ontario, October 4, 2022

23. *ZTF Solar System Working Group Overview*, ZTF Spring Meeting, Paris, France, May 13, 2022

22. *Establishing the Population of Asteroids Located Entirely within the Orbit of Venus*, The 2021 Greater IPAC Technology Symposium, Pasadena, California, October 13, 2021

21. *Establishing the population of asteroids located wholly inside the orbit of Venus*, American Astronomical Society, DPS meeting 53, virtual, October 4, 2021

20. *Establishing the Population of Asteroids Located Entirely within the Orbit of Venus*, The 2021 Greater IPAC Science Symposium, Pasadena, California, August 2, 2021

19. *Discovery and characterization of the first inner-Venus Asteroid 2020 AV2*, American Astronomical Society, DPS meeting 52, Spokane, Washington, October 27, 2020

18. *Science highlights from ZTF: exotic asteroids*, Celebrating ZTF-I & Soft Launch of ZTF-II , Pasadena, California, October 23, 2020

17. *Discovery and characterization of the first inner-Venus Asteroid 2020 AV2*, Europlanet Science Congress, September 25, 2020

16. *Keck Time-resolved Spectrophotometry of Temporarily-Captured Minimoon 2020 CD3*, Europlanet Science Congress, September 25, 2020

15. *VISIR Characterization of the Nucleus, Morphology, Activity, Spin-Pole Orientation & Rotation of Interstellar Comet 2I/Borisov by Earth- and Space-based Facilities*, Europlanet Science Congress, September 25, 2020

14. *Observations of Solar System Bodies by the Zwicky Transient Facility*, ZTF Collaboration Meeting, March 23, 2020

13. *Active Asteroid (6478) Gault*, American Astronomical Society, DPS meeting 51, Geneva, Switzerland, September 17, 2019

12. *Active Asteroid (6478) Gault*, The Main Belt: A Gateway to the Formation and Early Evolution of the Solar System, Villasimius, Sardinia, June 5, 2019

11. *Prospecting for the Solar System's Original Planetesimals*, Brainstorming Meeting on Planet Formation, Frejus, France, March 18, 2019

10. *The Galactic Orbit of 1I/2017 U1 'Oumuamua*, American Astronomical Society, DPS meeting 50, Knoxville, Tennessee, October 24, 2018

9. *Identification of asteroid families older than 2 billion years* , A Century of Asteroid Families, IAU Focus Meeting, Vienna, Austria, August 29, 2018

8. *APO Time Resolved Color Photometry of Highly-Elongated Interstellar Object 1I/'Oumuamua*, LSST@Europe3, Lyon, France, June 14, 2018

7. *APO Time Resolved Color Photometry of Highly-Elongated Interstellar Object 1I/'Oumuamua*, 18th Meeting of the NASA Small Bodies Assessment Group, NASA Ames, Mountain View, California, January 17-18, 2018

6. *Identifying asteroid families >2 Gyrs*, American Astronomical Society, DPS meeting 49, Provo, Utah, October 16, 2017

5. *Size-dependent modification of Asteroid Family Yarkovsky V-shapes*, Asteroids, Comets, Meteors 2017, Montevideo, Uruguay, April 12, 2017

4. *Yarkovsky V-shape identification of asteroid families*, American Astronomical Society, DPS meeting 48, Pasadena, California, October 18, 2016

3. *The search for ancient asteroid families*, Journées Doctorales de la Physique Niçoise, Saint-Étienne de Tinée, France, March 22, 2016

2. *Minimoon Discovery with Ground-based Radar Facilities*, American Astronomical Society, DPS meeting 45, Denver, Colorado, October 8, 2013

1. *The Detectability of Earth's Temporarily Captured Orbiters*, American Astronomical Society, DPS meeting 44, Reno, Nevada, October 17, 2012

POSTERS

15. *The Discovery and Characterization of Active Asteroid and Tianwen-2 Rendezvous Target 311P/PANSTARRS (2013P5)*, Rubin Community Workshop, Poznań, Poland, July 9, 2026

14. *JWST Characterization of Oort Cloud Comets C/2014 UN271 (Bernardinelli-Bernstein) and C/2025 K1 (ATLAS)*, Asteroids, Comets, and Meteors, Poznań, Poland, July 7, 2026

13. *Comprehensive Visible and Near-Infrared Characterization of 3I/ATLAS During its Encounter with the Solar System*, Rubin Community Workshop, Poznań, Poland, July 7, 2026

12. *Interstellar comet 3I/ATLAS and twilight discovery of asteroids and comets*, Rubin Community Workshop, University of Arizona, Tucson, Arizona, July 31, 2025

11. *The Volatile Content of Giant Oort Cloud Comet C/2014 UN271 during its Return to the Planetary Region*, European Astronomical Society, Cork, Ireland, June 25, 2025

10. *The Volatile Content of Giant Oort Cloud Comet C/2014 UN271 during its Return to the Planetary Region*, Origins of Solar Systems, Gordon Research Conference, South Hadley, Massachusetts, June 19, 2025

9. *JWST characterization of the volatiles of C/2014 UN271 Bernadinelli-Bernstein at 18 au*, Origins of Solar Systems, Gordon Research Conference, South Hadley, Massachusetts, June 12, 2023

8. *(594913) 'Ayl'chaxnim, a kilometer-scale asteroid inside Venus' orbit*, Origins of Solar Systems, Gordon Research Seminar, South Hadley, Massachusetts, June 11, 2023

7. *Groundbreaking Solar System discoveries at Palomar Observatory*, Palomar Science Meeting 2023, Pasadena, California, June 2, 2023

6. *The volatile contents of Oort Cloud comet C/2014 UN*$_{271}$, STScI Spring Symposium: Planetary Systems and the Origins of Life in the Era of JWST, Baltimore, Maryland, May 17, 2023

5. *Impact Probability Evolution of Virtual Impacting Asteroids*, American Astronomical Society, AAS meeting 233, id.263.02, Seattle, Washington, January 6, 2019

4. *Multiwavelength phase curves for asteroid families in the SDSS Moving Object Catalogue*, A Century of Asteroid Families, IAU Focus Meeting, Vienna, Austria, August 28, 2018

3. *A new method to identify asteroid families older than 2 Ga*, IAU General Assembly, Honolulu, Hawai'i, August 3, 2015

2. *Detecting Earth's Minimoons*, Asteroids, Comets and Meteors, Niigata, Japan, May 16, 2012

1. *Cassini UVIS Observations of Saturn's Faint, Narrow Ringlets*, EPSC-DPS Joint Meeting 2011, Nantes, France, October 7, 2011

OBSERVING EXPERIENCE

(as principal investigator, except where stated)

0.9-meter *Spitzer Space Telescope* (IRAC): 4.8 h
2.2-meter University of Hawai'i (Tek 2048), Maunakea, HI: 12 nights
2.4-meter *Hubble Space Telescope* (WFC3): 23 orbits
3.2-meter NASA Infrared Telescope Facility (SpeX), Maunakea, HI: 16.6 nights
3.5-meter Astrophysical Research Consortium (ARCTIC, NICFPS, DIS), Sunspot, NM: 14 nights
3.6-meter Canada France Hawai'i Telescope (MegaCam), Maunakea, HI: 14.7 hours queue time
5.1-meter Hale Telescope (WASP, CHIMERA, DBSP, TripleSpec), Palomar, CA: 7 nights
6.5-meter *James Webb Space Telescope* (NIRSpec): 104.4 h (PI) / 22.9 h (co-I)
8.1-meter Gemini North (GMOS, GNIRS), Maunakea, HI: 40.7 h band 1 / 24.7 h band 2,3 queue time
8.1-meter Gemini South (GMOS, F2), Cerro Pachón, Chile: 19.8 h band 1 / 25.2 h band 2,3 queue time
8.2-meter Very Large Telescope, Antu (FORS2), Cerro Paranal, Chile: 1.4 h
10.0-meter Keck I (LRIS, MOSFIRE, OSIRIS), Maunakea, HI: 7.5 nights
10.0-meter Keck II (NIRES), Maunakea, HI: 1.0 night

PUBLICATIONS

Total publications: 77 (**1st- and 2nd-author:** 34 | **co-author:** 43 | **citations:** 8,131 | **h-index:** 36)

FIRST- AND SECOND-AUTHORED PUBLICATIONS

34. **Bolin, B.T.**, Kolokolova, L., Ivanova, O., Wong, I. et al. 2026, *The CO2/CO-depleted interior of a fragmenting Oort cloud comet*, submitted to Nature Astronomy.

33. Graykowski, A, **Bolin, B.T.**, Abron, L.-M., Marchis, F. et al. 2026, *Color Evolution of 3I/ATLAS Through Ground-Based Relay Observations*, submitted to AJ.

32. **Bolin, B.T.**, Wong, I., Alcorn, L., Cooke, J. et al. 2026, *Keck and Gemini pre-perihelion characterization of interstellar comet 3I/ATLAS*, in prep.

31. Ingebretsen, C.†, **Bolin, B.T.**, MacGregor, M.A., Lisse, C. et al. 2026, *Multi-Wavelength Photometric Imaging of Fragmented Comet C/2025 K1 (ATLAS) with Gemini North 8.1-m and Astrophysical Research Consortium 3.5-m*, submitted to AJ.

30. **Bolin, B.T.**, Jedicke, R., Nesvorný, D., Morbidelli, A. et al. 2026, *The physical properties of (163693) Atira and the potential limitation of modeled near-Earth object source-albedo distributions*, submitted to ApJL.

29. **Bolin, B.T.**, Belyakov, M., Fremling, C., Graham, M.J. et al. 2025, *Interstellar comet 3I/ATLAS: discovery and physical description*, MNRAS:L, 542, 1, L139-L143.

28. Ingebretsen, C.†, **Bolin, B.T.**, Jedicke, R., Lisse, C. et al. 2025, *Apache Point pre-collision characterization of Earth-impactor 2024 RW_1*, AJ, 170, 237, 6 pp.

27. **Bolin, B.T.**, Brown, M.E., Saki, M., Prialnik, D. et al. 2025, *The hypervolatile contents of a distantly active planetesimal times the formation of the Oort Cloud*, submitted to Nature.

26. Beniyama, J., **Bolin, B.T.**, Abron, L.-M., Sergeyev, A.V. et al. 2025, *Visible to near-infrared multicolor photometry of 2024 PT_5*, A&A, 700, id.A183, 11 pp.

25. **Bolin, B.T.**, Hanuš, J., Denneau, L., Bonamico, R. et al. 2025, *The discovery and characterization of Earth-crossing asteroid 2024 YR_4*, ApJL, 984, L25.

24. **Bolin, B.T.**, Belyakov, M., Fremling, C., Beniyama, J. et al. 2025, *Keck and Gemini characterization of Hayabusa2# rendezvous target 1998 KY_{26}*, AJ, 169, 6, id.303, 7 pp.

23. **Bolin, B.T.**, Denneau, L., Abron, L.-M., Jedicke, R. et al. 2025, *The discovery and characterization of minimoon 2024 PT_5*, ApJL, 978, 2, id.L37, 10 pp.

22. **Bolin, B.T.**, Masci, F.J., Duev, D.A., Ahumada, T. et al. 2025, *Palomar Twilight Survey of 'Ayló'chaxnim, Atiras, and comets*, Icarus, 425, 116333.

21. **Bolin, B.T.**, & Coughlin, M.W. 2024, *Identification and localization of Cometary Activity in Solar System Objects with Machine Learning*, review chapter for *Machine Learning for Small Bodies in the Solar System*, Elsevier, ISBN: 9780443247705, p. 209-227.

20. **Bolin, B.T.**, Ghosal, M., Jedicke, R. 2024, *Rotation periods and colours of 10-m scale near-Earth asteroids from CFHT target of opportunity streak photometry*, MNRAS, 527, 2, p. 1633-1637.

19. **Bolin, B.T.**, Masci, F.J., Duev, D.A., Milburn, J.W. et al. 2024, *Palomar discovery and initial characterization of naked-eye long period comet C/2022 E3 (ZTF)*, MNRAS, 527, L42-L46.

18. Cheng, Y.-C., **Bolin, B.T.**, Kelley, M.S.P., Bodewits, D. et al. 2024, *Post-Perihelion Cometary Activity on the Outer Main Belt Asteroid 2005 XR132*, PSJ, 5, 3, id.78, 11 pp.

17. **Bolin, B.T.**, Noll, K.S., Caiazzo, I., Fremling, C. et al. 2023, *Keck and Gemini spectral characterization of Lucy mission fly-by target (152830) Dinkinesh*, Icarus, 400, 115562.

16. **Bolin, B.T.**, Fremling, C., Morbidelli, A., Noll, K.S. et al. 2023, *Keck, Gemini, and Palomar 200-inch visible photometry of red and very-red Neptunian trojans*, MNRAS, 521, 1, L29-L33.

15. **Bolin, B.T.**, Ahumada, T., van Dokkum, P., Fremling, C. et al. 2023, *Preliminary Zwicky Transient Facility survey completeness estimates of the 'Ayló'chaxnim asteroid population*, Icarus, 394, 115442.

14. **Bolin, B.T.**, Ahumada, T., van Dokkum, P., Fremling, C. et al. 2022, *The discovery and characterization of (594913) 'Ayló'chaxnim, a kilometre sized asteroid inside the orbit of Venus*, MNRAS, 517, 1, L49-L54.

13. Duev, D.A., **Bolin, B.T.**, Graham, M.J., Kelley, M.S.P. et al., 2021, *Tails: Chasing Comets with the Zwicky Transient Facility and Deep Learning.*, AJ, 161, 218.

12. Purdum, J.N.†, Lin, Z.-Y.*, **Bolin, B.T.***, Sharma, K. et al. 2021, *APO, GROWTH, P200 and ZTF Time-series and Phasecurve Photometry of Episodically-Active Asteroid (6478) Gault in a Quiescent State*, ApJL, 911, 2, L35.

11. **Bolin, B.T.**, Fernandez, Y.R., Lisse, C.M., Holt, T.R. et al. 2021, *Initial Visible and Near-IR Characterization of P/2019 LD$_2$ (ATLAS), an Active Transitioning Centaur Among the Trojans, with Hubble, Spitzer, Keck, APO and GROWTH Imaging and Spectroscopy*, AJ, 161, 3, 116.

10. **Bolin, B.T.**, Fremling, C., Holt, T.R., Hankins, M.J. et al., 2020, *Characterization of Temporarily Captured Minimoon 2020 CD3 by Keck Time-resolved Spectrophotometry*, ApJL, 900, 2, L45.

9. **Bolin, B.T.** & Lisse, C.M. 2020, *Constraints on the spin-pole orientation, jet morphology, and rotation of interstellar comet 2I/Borisov with deep HST imaging*, MNRAS, 497, 4, p. 4031-4041.

8. **Bolin, B.T.**, Lisse, C.M., Kasliwal, M.M., Quimby, R. et al. 2020, *Characterization of the Nucleus, Morphology, and Activity of Interstellar Comet 2I/Borisov by Optical and Near-infrared GROWTH, Apache Point, IRTF, ZTF, and Keck Observations*, AJ, 160, 1, id.26, 16 pp.

7. **Bolin, B.T.**, Morbidelli, A., and Walsh, K., 2018, *Size-dependent modification of Asteroid Family Yarkovsky V-shapes*, A&A, V. 611, A82, 27 pp.

6. **Bolin, B.T.**, Walsh, K., Morbidelli, A., and Delbo', M., 2018, *Initial velocity V-shapes of Young Asteroid Families in the Main Belt*, MNRAS, V. 473, p. 3949-3968

5. Jedicke, R., **Bolin, B.T.**, Bottke, W., Monique, C. et al., 2018, *Earth's Minimoons: Opportunities for Science and Technology.*, FrASS, V. 5, 13 pp.

4. **Bolin, B.T.**, Weaver, H.A., Fernandez, Y.R., Lisse, C.M. et al., 2018, *APO Time Resolved Color Photometry of Highly-Elongated Interstellar Object 1I/'Oumuamua*, ApJL, V. 852, 10 pp.

3. **Bolin, B.T.**, Delbo', M., Morbidelli, A. and Walsh, K., 2017, *Yarkovsky V-shape identification of asteroid families*, Icarus, V. 282, p. 290-312

2. Jedicke, R., **Bolin, B.T.**, Granvik, M. and Beshore, E., 2016, *A fast method for quantifying observational selection effects in asteroid surveys*, Icarus, V. 266, p. 173-188

1. **Bolin, B.T.**, Jedicke, R., Granvik, M. et al., 2014, *Detecting Earth's temporarily-captured natural satellites-Minimoons*, Icarus, V. 241, p. 280-297

OTHER CO-AUTHORED PUBLICATIONS

43. Betti, S.K., Chen, C.H., Xie, C., Worthen, K. & 12 coauthors including **Bolin, B.T.** 2026, *Detection of Ices in the Debris Disk around β Pictoris*, Science, accepted for publication.

*These authors contributed equally to this work.

†Student advisee.

42. Belyakov, M., Wong, I., Lisse, C.M., Davis, M.R. & 6 authors including **Bolin, B.T.** 2026, *The Dust Mineralogy of Interstellar Comet 3I/ATLAS from JWST/MIRI Observations*, submitted to ApJL.

41. Vishnu, R., Fast, K.E., Bauer, J.M., Battle, A.M. & 182 authors including **Bolin, B.T.** 2026, *The International Asteroid Warning Network's 2025 FA22 Planetary Defense Campaign*, submitted to PSJ.

40. Belyakov, M., Wong, I., **Bolin, B.T.**, Davis, M.R. et al., 2026, *The Volatile Inventory of 3I/ATLAS as seen with JWST/MIRI*, ApJL, 1001, 1, id.L11, 13 pp.

39. Chandler, C.O., Bernardinelli, P.H., Jurić, M., Devanshi, S. & 300 coauthors including **Bolin, B.T.** 2025, *NSF-DOE Vera C. Rubin Observatory Observations of Interstellar Comet 3I/ATLAS (C/2025 N1)*, ApJL, 1001, L35

38. Rahatgaonkar, R., Pablo Carvajal, J., Puzia, T.H., Luco, B. & 22 coauthors including **Bolin, B.T.** 2025, *VLT observations of interstellar comet 3I/ATLAS II. Detection of the onset of atomic nickel and CN emission*, ApJL, 995,1,L34, 13 pp.

37. Delbo, M., Avdellidou, C., Galinier, M., Bhat, U. & 3 coauthors including **Bolin, B.T.** 2025, *Gaia and IRTF abundance of A-type main belt asteroids*, Astronomy & Astrophysics, 705, id.A46, 18 pp.

36. Kelley, M.S.P., Protopapa, S., Moulane, Y., Heinze, A.N. & 11 coauthors including **Bolin, B.T.** 2025, *A Large Outburst, Coma Asymmetries, and the Color of Comet 243P/NEAT*, PSJ, 6, 8, id.185, 30 pp.

35. Lin, Z.-Y., Cheng, C.-C., Chang, C.-K., Tseng, W.-L. & 7 coauthors including **Bolin, B.T.** 2025, *Asteroid phase function parameters and taxonomic constraints from the Zwicky Transient Facility*, MNRAS, 541, 2, pp. 1472-1486.

34. Xie, C., Chen, C.H., Lisse, C.M., Hines, D.C. & 12 coauthors including **Bolin, B.T.** 2025, *Water ice in the debris disk around HD 181327*, Nature volume 641, p. 608-611.

33. Li, Z., Yasin, A.C., Ivezić, Ž., Mahabal, A. & 10 coauthors including **Bolin, B.T.** 2025, *Estimates of Rotation Periods for Jupiter Trojans with the Zwicky Transient Facility Photometric Light Curves*, Icarus, 438, 116609.

32. Robinson, J.E., Schwamb, M.E., Jones, R.L., Jurić, M. & 11 coauthors including **Bolin, B.T.** 2024, *Tuning the Legacy Survey of Space and Time (LSST) Observing Strategy for Solar System Science: Incremental Templates in Year 1*, ApJS, 279, 9

31. Athanasopoulos, D., Hanus, J., Avdellidou, C., van Belle, A. & 13 coauthors including **Bolin, B.T.** 2024, *Spin states of X-complex asteroids in the inner main belt. I. Investigating Athor and Zita collisional families*, A&A, 690, A215.

30. Levison, H.F., Marchi, S., Noll, K.S., Spencer, J.R. & 118 coauthors including **Bolin, B.T.** 2024, *A contact binary satellite of the asteroid (152830) Dinkinesh*, Nature, 629, p. 1015-1020.

29. Perley, D.A., Ho, A.Y.Q., Fausnaugh, M., Lamb, G.P. & 33 coauthors including **Bolin, B.T.** 2024, *AT 2019pim: A Luminous Orphan Afterglow from a Moderately Relativistic Outflow*, MNRAS, 537, 3, 18 pp.

28. Deleon, A.P., Marshall, S.E., Becker, T.M., Pravec, P. & 11 coauthors including **Bolin, B.T.** 2023, *Characterization of Interior, Near-Earth, Binary Asteroid (163693) Atira*, PSJ, 5, 10, id.235, 19 pp.

27. Sharma, K.†, Kumar, H., Choudhary, H., Bhalerao, V. & 6 coauthors including **Bolin, B.T.** 2023, *Astreaks: A novel method for astrometry of NEOs*, MNRAS, 524, 2, p. 2651-2660.

26. Farnocchia, D., Reddy, V., Bauer, J. M., Warner, E. M. & 87 coauthors including **Bolin, B.T.** 2023, *The second International Asteroid Warning Network Timing Campaign: 2005 LW3*, PSJ, 4, 203.

25. Nesvorny, D., Dienno, R., Bottke, W.F., Jedicke, R. & 10 coauthors including **Bolin, B.T.** 2023, *NEO-MOD: A New Orbital Distribution Model for Near Earth Objects*, AJ, 166, 55.

24. Schwamb, M.E., Jones, R.L., Yoachim, P., Volk, K. & 30 coauthors including **Bolin, B.T.** 2023, *Tuning the Legacy Survey of Space and Time (LSST) Observing Strategy for Solar System Science*, ApJS, 266, 2, 22, 68 pp.

23. Farnocchia, D., Reddy, V., Bauer, J.M., Warner, E.M. & 68 coauthors including **Bolin, B.T.** 2022, *International Asteroid Warning Network Timing Campaign: 2019 XS*, PSJ, 3, 7, 156 pp.

22. Chang, C.-K., Yeh, T.-S., Tan, H.-J., Ip, W.-H. & 10 coauthors including **Bolin, B.T.** 2022, *The Large Superfast Rotators Discovered by the Zwicky Transient Facility*, ApJL, 932, 1, L5.

21. Lindberg, C.W.†, Huppenkothen, D., Jones, R.L., **Bolin, B.T.**, et al., 2021, *Characterizing Sparse Asteroid Light Curves with Gaussian Processes*, AJ, 163, 1, 29 pp.

20. Anand, S., Coughlin, M.W., Kasliwal, M.M., Bulla, M. & 43 coauthors including **Bolin, B.T.**, 2020, *Optical follow-up of the neutron star-black hole mergers S200105ae and S200115j*, Nature Astronomy, Advanced Online Publication.

19. Morbidelli, A., Delbo, M., Granvik, M., Bottke, W. F. & 4 coauthors including **Bolin, B.T.** 2020, *Debiased albedo distribution for Near Earth Objects* , Icarus, 340, 1, 113631.

18. Ye, Q., Kelley, M.S.P., **Bolin, B.T.,** Bodewits, Dennis et al., 2019, *Pre-discovery Activity of New Interstellar Comet 2I/Borisov beyond 5 au* , AJ, 159, 9 pp.

17. Ye, Q., Masci, F.J., Lin, H.W., **Bolin, B.T.** et al., 2019, *Towards Efficient Detection of Small Near-Earth Asteroids Using the Zwicky Transient Facility (ZTF)*, PASP, 131, 078002.

16. Graham, M.J., Kulkarni, S.R., Bellm, E.C., Adams, S.M. & 112 coauthors including **Bolin, B.T.**, 2019, *The Zwicky Transient Facility: Science Objectives*, PASP, 131, 078001.

15. Ye, Q., Kelly, M.S.P., Bodewits, D., **Bolin, B.T.** et al., 2019, *Multiple Outbursts of Asteroid (6478) Gault*, ApJL, V. 874, 8 pp.

14. Whidden, P.J., Kalmbach, B.†, Connolly, A.J., Jones, R.L. & 10 coauthors including **Bolin, B.T.**, 2019, *Fast algorithms for slow moving asteroids: constraints on the distribution of Kuiper Belt Objects*, AJ, V. 157, 15 pp.

13. Bellm, E.C., Kulkarni, S.R., Graham, M.J., Dekany, R. & 111 coauthors including **Bolin, B.T.**, 2019, *The Zwicky Transient Facility: System Overview, Performance, and First Results*, PASP, V. 131, 19 pp.

12. Granvik, M., Morbidelli, A., Jedicke, R., **Bolin, B.T.** et al., 2018, *Debiased orbit and absolute-magnitude distributions for near-Earth objects*, Icarus, V. 312, p. 181-207

11. Hanuš, J., Delbo', M., Alí-Lagoa, V., **Bolin, B.T.** et al., 2018, *Spin states of asteroids in the Eos collisional family*, Icarus, V. 299, p. 84-96

10. Delbo', M., Walsh, K., **Bolin, B.T.**, Avdellidou, C. et al., 2017, *Identification of a primordial asteroid family constrains the original planetesimal population*, Science, V. 357, 3 pp.

9. Moreno, F., Pozuelos, F. J., Novaković, B., Licandro, J. & 19 coauthors including **Bolin, B.T.**, 2017, *The Splitting of Double-component Active Asteroid P/2016 J1 (PANSTARRS)*, ApJL, V. 837, 6 pp.

8. Vokrouhlický, D., Pravec, P., Durech, J., **Bolin, B.T.** et al., 2017, *The young Datura asteroid family. Spins, shapes, and population estimate*, A&A, V. 598, 19 pp.

7. Hanuš, J., Delbo', M., Vokrouhlický, Pravec, P. & 14 coauthors including **Bolin, B.T.**, 2016, *Near-Earth asteroid (3200) Phaethon: Characterization of its orbit, spin state, and thermophysical parameters*, A&A, V. 592, 15 pp.

6. Granvik, M., Morbidelli, A., Jedicke, R., **Bolin, B.T.** et al., 2016 *Super-catastrophic disruption of asteroids at small perihelion distances*, Nature, V. 530, Issue 7590, p. 303-306

5. Vereš, P., Jedicke, R., Fitzsimmons, A., Denneau, L. & 13 coauthors including **Bolin, B.T.**, 2015, *Absolute magnitudes and slope parameters for 250,000 asteroids observed by Pan-STARRS PS1 - Preliminary results*, Icarus, V. 261, p. 34-47

4. Hsieh, H.H., Denneau, L., Wainscoat, R., Schörghofer, N. & 16 coauthors including **Bolin, B.T.**, 2015, *The main-belt comets: The Pan-STARRS1 perspective*, Icarus, V. 248, p. 289-312

3. Hsieh, H.H., Olivier, H., Novaković, R., & 14 coauthors including **Bolin, B.T.**, 2015, *Sublimation-Driven Activity in Main-Belt Comet 313p/Gibbs*, ApJL, V. 800, 7 pp.

2. Denneau, L., Jedicke, R., Grav, T., Granvik, M. & 40 coauthors including **Bolin, B.T.**, 2013, *The Pan-STARRS Moving Object Processing System*, PASP, V. 125, 39 pp.

1. Granvik, M., Jedicke, R., **Bolin, B.T.**, Monique, C. et al., 2013, *Earth's Temporarily-Captured Natural Satellites - The First Step towards Utilization of Asteroid Resources*, Asteroids: Prospective Energy and Material Resources, p. 289-312

SELECTED NON-REFEREED PUBLICATIONS

6. **Bolin, B.T.**, Masci, F.J., Ip, W.-H., and Helou, G. et al. 2022, *Comet C/2022 E3 (ZTF)*, Minor Planet Electronic Circular, 2022-F13.

5. **Bolin, B.T.**, Bhalerao, V., Copperwheat, C.M., and Deshmukh, K.P. et al. 2020, *2020 QG*, Minor Planet Electronic Circular, 2020-Q51.

4. **Bolin, B.T.**, Bodewits, D., Lisse, C.M., and Fernandez, Y.R. et al. 2020, *Possible fragmentation of interstellar comet 2I/Borisov*, The Astronomer's Telegram, 13613.

3. **Bolin, B.T.**, Masci, F.J., Ye, Q.-Z., and Pettarin, E. et al. 2020, *2020 AV_2*, Minor Planet Electronic Circular, 2020-A99.

2. Hill, R.E., **Bolin, B.T.**, Kleyna, J., and Denneau, L. et al. 2013, *Comet P/2013 R3 (Catalina-Panstarrs)*, Central Bureau Electronic Telegrams, 3658.

1. **Bolin, B.T.**, Denneau, L., Micheli, M., and Wainscoat, R. et al. 2013, *Comet P/2013 P5 (Panstarrs)*, Central Bureau Electronic Telegrams, 3639.

LANGUAGES

English: primary language
French: proficient (reading, writing), intermediate (speaking, listening)

REFERENCES

Name	Position	Institution	Email	Relationship
Alessandro Morbidelli	*Professor*	Collège de France, Fr	morby@oca.eu	Ph.D. co-supervisor
Jameeka Marshall	*Manager*	UC-Santa Cruz, USA	jmarsha4@ucsc.edu	outreach manager
Keith Noll	*Scientist*	PSI, USA	knoll@psi.edu	supervisor
Marco Delbo	*Professor*	Obs. de la Côte d'Azur, Fr	delbo@oca.eu	Ph.D. co-supervisor
Robert Jedicke	*Specialist*	Inst. for Astronomy, USA	jedicke@hawaii.edu	supervisor