

CURRICULUM VITAE

— BRYCE THEODORE BOLIN —

(HE/HIM/HIS)

Eureka Scientific, Inc.
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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.edu)

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, 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**

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 – 2017	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: \$1.96 USD (as PI: \$1.05M USD | as co-I: \$0.91M USD)

2024 - **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 CL₂₂**, 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:

- Matthew Belyakov**, Graduate Student at the California Institute of Technology with Prof. Michael Brown on physical characterization of distant solar system and interstellar objects, 2024 - present.
- Carl Ingebreetsen**, Graduate Student at John Hopkins University with Dr. Christine Chen on spectroscopic characterization of Earth impactors and interior Earth objects, 2024 - 2025.
- Laura-May Abron**, lead guide at Griffith Observatory on multi-wavelength spectroscopic characterization of Main Belt comets and asteroids, 2024 - present.
- 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**, graduate student at the Indian Institute of Technology, Bombay, with Prof. Varun Bhalariao on observations of small Solar System bodies with the Zwicky Transient Facility, 2021 - present.
- Kritti Sharma**, undergraduate student at the Indian Institute of Technology, Bombay, with Prof. Varun Bhalariao 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.
- Chen-Yen Hsu**, 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 Bhalariao 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 Gaussian processes analysis of asteroid lightcurves, 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)

Professional Service

- JWST Telescope Allocation Committee Solar System panelist (2024-present)
- NASA Keck Telescope Allocation Committee Solar System panelist (2024-present)
- National Science Foundation Planetary Science review panelist (2024-present)

JWST Discussion panelist, and 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 for the Israeli Ministry of Innovation, Science and Technology (2022)

External reviewer for 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)

Referee for *Advances in Space Research*, the *Astronomical Journal*, *Astronomy & Astrophysics*, *Astrophysical Journal Letters*, *Icarus*, *Monthly Notices of the Royal Astronomical Society*, *Nature Astronomy*, *New Astronomy*, *Planetary Science Journal*, and *Planetary and Space Science*, 34 papers total (2016 - present)

Outreach

Public Outreach:

Shadow the Scientist, Observing on the Gemini South Telescope, Cerro Pachón, Chile (August 2025)

Shadow the Scientist, Observing on the Keck Telescope, Maunakea, Hawaii (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, Hawaii (February 2025)

Q&A with Astronomer and Waimea Country School students, Gemini North Hilo Base Facility, NOIRLab, Hilo, Hawaii (February 2025)

Shadow the Scientist, Observing on the Keck Telescope, Maunakea, Hawaii (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, Hawaii (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)

Conference for Undergraduate Women in Physics, University of Wash., Seattle, WA (January 2019)

B612 Foundation Quarterly Webinar, Mountain View, CA (May 2018)

La Nuit Coupôles Ouvertes, Caussols, France (October 2017)

Asteroid Day Luxembourg, Luxembourg City, Luxembourg (June 2017)

La Nuit Coupôles 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)

Event Volunteer:

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)
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

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 Its 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 CONFERENCE TALKS

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

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, Hawaii, 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, Hawaii, February 20, 2024
29. Canada France Hawaii Telescope, Astronomy Colloquium, Waimea, Hawaii, 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

38. *Interstellar comet 3I/ATLAS and twilight discovery of asteroids and comets*, ADASSx Monsoon conference, University of 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 Conference, 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 Minimoons 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 Earths Temporarily Captured Orbiters*, American Astronomical Society, DPS meeting 44, Reno, Nevada, October 17, 2012

POSTERS

12. *Interstellar comet 3I/ATLAS and twilight discovery of asteroids and comets*, Rubin Community Workshop, University of 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'chaznim, 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 UN₂₇₁*, 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: 13.5 nights
- 3.5-meter Astrophysical Research Consortium (ARTIC, 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): 70.0 h (PI) / 22.9 h (co-I)
- 8.1-meter Gemini North (GMOS, GNIRS), Maunakea, HI: 35.0 h band 1/ 15.2 h band 2,3 queue time
- 8.1-meter Gemini South (GMOS, F2), Cerro Pachón, Chile: 19.8 h band 1/ 16.9 h band 2,3 queue time
- 10.0-meter Keck I (LRIS, MOSFIRE, OSIRIS), Maunakea, HI: 6.5 nights
- 10.0-meter Keck II (NIRES), Maunakea, HI: 1.0 night

PUBLICATIONS

Total publications: 70 (**1st- and 2nd-author:** 31 | **co-author:** 39 | **citations:** 6,262 | **h-index:** 30)

FIRST- AND SECOND-AUTHORED PUBLICATIONS

31. **Bolin, B.T.**, Denneau, L., Fremling, C., Athanasopoulos, D. et al. 2025, *The discovery and characterization of 311P/(P/2013 P5) PANSTARRS*, submitted to AAS journals.
30. **Bolin, B.T.**, Morbidelli, A., Avdellidou, C., Delbo, M. et al. 2025, *Discovery of a 2 billion year-old, high inclination, high-albedo family*, submitted to AAS Journals.
29. Ingebreetsen, C.[†], **Bolin, B.T.**, Jedicke, R., Lisse, C. et al. 2025, *Apache Point pre-collision characterization of Earth-impactor 2024 RW₁*, AJ, in press.
28. **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.
27. **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.
26. Beniyama, J., **Bolin, B.T.**, Abron, L.-M., Sergeyev, A.V. et al. 2025, *Visible to near-infrared multicolor photometry of 2024 PT₅*, A&A, in press.

25. **Bolin, B.T.**, Hanuš, J., Denneau, L., Bonamico, R. et al. 2025, *The discovery and characterization of Earth-crossing asteroid 2024 YR₄*, 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 KY₂₆*, AJ, in press.
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