Jessica L. Noviello, Ph.D.

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Education

Arizona State University, Tempe, Arizona 2014 - 2019
Doctorate of Philosophy (PhD)
Dissertation title: Identification and Quantitative Classification of Europa's Microfeatures: Implications for Microfeature Formation Models and the Europa Clipper Flagship Mission.

The Johns Hopkins University, Baltimore, Maryland 2010 - 2014
Bachelor of Science (B.S.)
Majors in Physics and Earth & Planetary Sciences (with Honors)
Minors in Mathematics and Space Science and Technology

Research & Work Experience

Assistant Research Scientist via the CRESST II Cooperative Agreement
Feb. 2024 - Present
University of Maryland, Baltimore County, Baltimore, MD
NASA Goddard Space Flight Center, Greenbelt, MD
Advisor: Dr. Kathy Mandt
Code 693, Planetary Systems Laboratory

- **Cryovolcanism**. I use mapping software to map and spatially analyze the crater density in different regions on Pluto's largest moon, Charon. I also use the IcyDwarf code to model Charon's formation and geochemical evolution.
- **Exoplanet Interiors** As a Co-Investigator on the Arizona State University Tracing Rocky Exoplanet Compositions (TREC) team, I use a code called Kyushu to model the internal structure of ultra-short period exoplanets to estimate their geological composition and core mass fractions. This is a continuation of work I began in my previous position.
- **NExSS Leadership** I serve on the NExSS leadership team and am responsible for community communications, workshop planning, and technical documentation for stakeholders.

Executive Officer for the Habitable Worlds Observatory Project Office
Feb. 2024 - Present
NASA Goddard Space Flight Center, Greenbelt, MD
Supervisors: Dr. Aki Roberge & Dr. Giada Arney
As the Executive Officer (XO) for the Habitable Worlds Observatory Project Office (HWOPO), I am accountable for:

- Managing the schedule, budgets, and responsibility distribution of the HWOPO
- Developing and using project management tools like Gantt charts and responsibility matrices for different teams within the HWOPO
- Producing reports as needed to key NASA shareholders
- Planning and running workshops and meetings, often with partner institutions
- Accurately recording the meeting minutes and organizing "next steps" to focus the team

NASA Postdoctoral Management Program Fellow Jan. 2021 - Feb. 2024
NASA Goddard, Greenbelt, MD
Advisor: Dr. Shawn Domagal-Goldman

- **Exoplanet Interiors**. I used a code called Kyushu to model the internal structure of ultra-short period exoplanets to estimate their geological composition and core mass fractions.
- **Identifying spectral indicators of mass extinctions on exoplanets** I led a small pilot project investigating the atmospheric changes that may exist after a mass extinction event on Earth, and if these changes could be detectable with a space telescope.
- **NExSS Science Communications Working Group (SCWG)** I was the lead for the NExSS SCWG, which was responsible for producing the NExSS Newsletter, science nuggets to highlight new research done by NExSS scientists, managed the website, and ran the X/Twitter account for NExSS.
- **The Professional Advancement Workshop Series (PAWS)** I organized and ran a series of workshops and panels that taught early career scientists flexible career skills, showed them other career paths available to them, and created a peer-to-peer community of over 500 people. This initiative was funded by the NASA Astrobiology Program for $10,000 and ran between August 2021 and February 2024.

Postdoctoral Researcher Sept. 2019 - Jan. 2021
Arizona State University, Tempe, AZ
Advisor: Prof. Steve Desch

- **El 61 Haumea's Evolution**. I determined the geochemical and geophysical history of the Kuiper Belt object El 61 Haumea using geophysical modelling codes and presented a new hypothesis for its formation and the formation of its moons, ring system, and dynamical family.
- **The Venus Atmospheric and Land Explorer: Novel Trailblazer for In situ Exploration (VALENTInE) Mission Proposal** As part of the The Jet Propulsion Laboratory Planetary Science Summer School (May - August 2020), I collaborated with a team of 17 other early career scientists to design and pitch a *New Frontiers* class mission. We designed an atmospheric balloon mission to Venus capable of varying altitude to obtain multiple profiles of temperature, pressure, and composition. I served as the Proposal Manager and headed the overall message and tone of our mission proposal and was responsible for final checks and approvals on our presentation slides.

Graduate Student Researcher Aug. 2014 - June 2019
Arizona State University, Tempe, AZ
Advisors: Alyssa R. Rhoden and Phil Christensen

- **Europa's Surface Geology** For my dissertation work, I focused on Europa's surface geology and the implications for subsurface structures and their implications for future astrobiological studies. I gained extensive experience with ArcGIS and geomorphology mapping practices. Finally, I performed hierarchical classification and geospatial analyses on microfeatures on the surface to expand the usable dataset from the Galileo mission and make predictions for upcoming missions.

Undergraduate Research Intern June 2013 - Aug. 2014
The Johns Hopkins University Applied Physics Laboratory, Laurel, MD
Advisors: Dr. Carolyn Ernst and Dr. Olivier Barnouin

- **The Surface Geology of Near-Earth Asteroids** I used the JHU APL Small Body Mapping Tool (SBMT) to map and measure over 23,000 blocks on asteroid 25143 Itokawa's and 433 Eros's surfaces. I then analyzed the dataset using IDL to create size-frequency distributions for comparative analyses with other small rocky and icy bodies. That work was later used by the OSIRIS-Rex mission to characterize 101955 Bennu's surface and contextualize the samples that will be returned.

Selected Proposals

- Science Principal Investigator on: How and when did cryolava extrude onto Charon's surface? Selected under the NASA Research Opportunities in Space and Earth Sciences Solar Systems Working (SSW-2020) solicitation. PI: Prof. Steve Desch, ASU. $392,707.
- Co-Investigator on: Community Building via Supporting the NExSS Co-Leads. Selected under the Topical Workshops, Symposiums, and Conferences (TWSC-24) in Space and Earth Sciences and Technology solicitation. PI: Dr. Michael Way, NASA Goddard Institute for Space Studies. $36,975.
- Science Principal Investigator on: The Professional Advancement Workshop Series (PAWS) Capstone Event: Creating the Rising Tide. Selected under the Topical Workshops, Symposiums, and Conferences NASA Research Announcement. PI: Dr. Shawn Domagal-Goldman, NASA Goddard Space Flight Center. $79,603.

Non-research Work Experience

Lucy Student Pipeline Accelerator and Competency Enabler (L'SPACE) Team Member and Subject Matter Expert 2018–2019
Arizona State University, Tempe, AZ
Project Leads: Sheri Klug-Boonstra and Dann Garcia

- L'SPACE is a program meant to create access to and share knowledge about NASA missions to enrolled college students whose institutions do not have connections to NASA.
- As a member of the team in its inaugural year, I helped to develop the scope and content of the courses.
- I moderated weekly online chat during speaker sessions for two separate classes, answered scientific questions posed by students in real time, and took charge of social media posts to keep students motivated and engaged.

Teaching Assistant for the SES 123/124 Laboratory Courses 2016–2017
Arizona State University, Tempe, AZ
Instructors: Profs. Jim Bell, Jenny Patience, and Evan Scannapieco

- I interactively taught 100+ students about astronomy and geology using tactile and physical methods.
- I also created and delivered short lectures at the beginning of every class to frame the lesson, introduce vocabulary, and explain objectives.
- After the courses ended, I collaborated with teaching faculty to revise the curriculum to modernize it for future classes.

Teaching Assistant for the Dinosaurs 270.201 Course Spring 2013
The Johns Hopkins University, Baltimore, MD
Instructor: Prof. David B. Weishampel (now emeritus)

- I assisted in teaching a class of 50 students about the Mesozoic Era, including running exam review sessions and writing questions for the exams.
- I also delivered the last lecture of the semester on the K-Pg mass extinction event 66 million years ago.

Technical Writer and Project Manager September 2010–May 2014
Student Technology Services at the Johns Hopkins University, Baltimore, MD

- I created and edited technical documents for official University use, including tutorials on new products, technological and biennial reports, and service manuals.
- I also wrote posts for the STS Tech Blog to inform students of technological updates around the campus or to explain new advances in technological sciences.

Swimming Instructor Summers 2010 and 2011
Town of Smithtown Recreation Department Smithtown, NY

- I first earned Water Safety Instructor Certification through the American Red Cross to teach classes.
- I was assigned to teach the youngest students how to be comfortable in the water, how to hold their breath safely, and the basics of swimming (Level 1).

Burger Specialist Summers 2010 and 2011
American Roadside Burger Co. Smithtown, NY (now closed)

- I did whatever needed to be done, including taking orders, bringing out food to customers, bussing tables, washing dishes, or making burgers (not all at once).

Honors and Awards

NASA Goddard Space Flight Center Special Act Award 2024
Special Thanks and Recognition (STAR) Peer Award: 690 Division at NASA Goddard Space Flight Center 2024
Special Thanks and Recognition (STAR) Peer Award: 690 Division at NASA Goddard Space Flight Center 2022
Asteroid 61042 Noviello 2021
College of Liberal Arts and Sciences at Arizona State University Student Leader Award 2018
School of Earth and Space Exploration Graduate TA: Laboratory Course Award 2017
School of Earth and Space Exploration Out of This World Planetary Graduate Student Award (peer award) 2017
School of Earth and Space Exploration Nininger Student Travel Award 2016
National Science Foundation Graduate Fellowship Research Program Honorable Mention 2015
Johns Hopkins University Morton K. Blaustein Department of Earth and Planetary Sciences Graduating Major's Award 2014
Johns Hopkins University Earl Family Scholarship Recipient 2013-2014
Woodrow Wilson Undergraduate Research Fellow at Johns Hopkins University 2011–2014
Adam Falk Fellow, Woodrow Wilson Undergraduate Research Fellowship 2011
National Security Scholars Program fellow Summer 2012
Girl Scouts of America Gold Award Recipient 2010

Technical Skills

Experience with coding in Python, MatLab, IDL, and LaTeX languages
Extensive experience working in a terminal environment
Extensive experience working with the ArcMap software suite
Moderate proficiency with statistical programming, including writing syntax, in R, SPSS, and SAS
Moderate proficiency with USGS ISIS3 processing software experience
High proficiency with Microsoft Office software
Strong technical writing ability and experience
Strong public speaking skills and extensive experience doing so for many audiences

Service and Volunteering

- Elected member of the Division of Planetary Science's Nominating Committee (2023–2026)
- Member of the Virtual Organizing Committee for the Division of Planetary Sciences 2023 and 2024 meeting
- Member of the NASA Goddard Academic and Professional Students Plus (NGAPS+) Leadership Team (2021–2024)

- Elected member of the Delta Xi Phi Multicultural Sorority, Inc. National Board (2016–present)
  - Initially elected as Associate Tribunal
  - Current role: National Treasurer (since 2018)
- Elected member of the SESE Graduate Council from Fall 2015–Spring 2018
  - Graduate Student Advocate (2016)
  - Recruitment chair (2017)
  - Vice President (2018)
- Arizona State University Graduate Professional Student Association (GPSA) travel grant reviewer (2017–2019)
- Mentor and coordinator for the Arizona State Univerisyt Open House events, Earth and Space Exploration Day, and Night of the Open Door: 2014–2020

Invited Talks & Panels

- Speaker at Astronomy on Tap D.C., Washington D.C., December 12, 2024. *Cryovolcanism: The Coolest Geologic Process.*
- Invited speaker at the University of Maryland Baltimore County Homecoming Event, Baltimore, MD, October 26, 2024. *Cryovolcanism: The Coolest Geologic Process.*
- Invited speaker at the Delaware Astronomical Society, Newark, DE, May 21, 2024. *Cryovolcanism: The Coolest Geologic Process.*
- Seminar speaker at the University of Kansas Astronomy and Astrophysics Seminar (virtual), April 1, 2022. *The Internal Happenings of Dwarf Planet Haumea: Connections to Exoplanet Interiors.*
- Seminar speaker at the Space Telescope Science Institute's Exoplanets, Star, and Planet Formation Seminar (virtual), March 28, 2022. *The Internal Happenings of Dwarf Planet Haumea: Connections to Exoplanet Interiors.*
- Featured speaker at Guilford Technical Community College's TriStar Annual Event (virtual), March 5, 2022. *Cryovolcanism in the Solar System: The Coolest Geological Process.* https://youtu.be/HymNzAgeSls.
- Seminar speaker at the Georgia Tech Planetary Science and Astrobiology Seminar (virtual), March 4, 2022. *The Internal Happenings of Dwarf Planet Haumea.* https://www.youtube.com/watch?v=6e3wKL9AelI.
- Invited speaker to the Minnesota Astronomical Society's monthly meeting (virtual), March 3, 2022. *Water in the Solar System and Beyond.* ttps://www.youtube.com/watch?v=HRqVXTTrGS8.

Publications

1. **Noviello, J. L.**, Desch, S. J., Neveu, M., Proudfoot, B. C. N., and Sonnett, S. (2022). Let It Go: Geophysically Driven Ejection of the Haumea Family Members. *Planet. Sci. J.*, 3, 225. DOI: https://doi.org/10.3847/PSJ/ac8e03.

2. Arredondo, A., and 16 others including **Noviello, J. L.** (2022). VALENTInE: A New Frontiers class mission concept to study Venus' atmosphere. *Planet. Sci. J.* 3, 152. DOI: https://doi.org/10.3847/PSJ/ac7324.

3. Desch, S., Jackson, A., **Noviello, J.**, and Anbar, A. (2022). The breakup of a long-period comet is not a likely match to the Chicxulub impactor. *Scientific Reports: Matters Arising*, 12, 10415. DOI: https://doi.org/10.1038/s41598-022-12873-3.

4. **Noviello, J. L.**, and Rhoden, A. R. (2021). Quantifying misidentification rates of Europa's microfeatures in low-resolution Galileo imaging. *Icarus* 365, 114495. DOI: https://doi.org/10.1016/j.icarus.2021.114495.

5. **Noviello, J. L.**, Torrano, Z. T., Rhoden, A. R., and Singer, K. N. (2019). Mapping Europa's microfeatures in regional mosaics: new constraints on formation models. *Icarus* 329, 101–123. DOI: https://doi.org/10.1016/j.icarus.2019.02.038.

6. **Noviello, J. L.**, Buxner, S., Domagal-Goldman, S., and Kirven-Brooks, M. The Professional Advancmenet Workshop Series: a Case Study of Workforce Development. *in prep.*

7. Boccelli, S., Tucker, O. J., and **Noviello, J. L.**. An approximated ordinary differential equation for the surface temperatures of spherical airless bodies. *in prep.*

8. **Noviello, J. L.**, Barnouin, O.S., and Ernst, C. Block distribution on asteroid 25143 Itokawa: evidence for recent surface migration. *in prep.*

9. Barnouin, O.S., Ernst, C., and **Noviello, J. L.**. Testing proposed density variations within Itokawa using surface lineaments. *in prep.*

Conference Abstracts

1. **Noviello, J. L.**, Desch, S.J., and Neveu, M. (2025) Modeling Charon's Geochemical Evolution: Implications for Cryovolcanism. In: *Lunar and Planetary Science LVI*, Abstract #2267, Lunar and Planetary Institute, The Woodlands, TX.
2. **Noviello, J. L.**, Singer, K. N., and Desch, S.J. (2025) Spatial Clustering of Charon's Craters: Testing a Cryovolcanic Assumption. In: *Lunar and Planetary Science LVI*, Abstract #2286, Lunar and Planetary Institute, The Woodlands, TX.
3. **Noviello, J. L.** on behalf of the NExSS Co-Leads Team. (2024) NExSS: What is it, and how can it help you? In: *Exoplanets in Our Backyard 3*. Louisville, KY.
4. **Noviello, J. L.** and Desch, S. (2024) The Structure and Composition of Ultra-Short Period Exoplanets (Super-Mercuries). In: *Lunar and Planetary Science LV*, Abstract #2414, Lunar and Planetary Institute, The Woodlands, TX.
5. **Noviello, J. L.** and Desch, S. (2024) Extrapolating the Internal Structure and Bulk Compositions of Ultra-Short Period Exoplanets. In: *American Astronomical Society Meeting #243*, id. 429.06. Bulletin of the American Astronomical Society, Vol. 56. New Orleans, LA.
6. **Noviello, J.** and Desch, S. (2023) Constraining the minimum core mass fraction and Fe/Mg ratio of close-in super-Mercury exoplanets. In: *Annual Meeting of the Division for Planetary Sciences*, id. 222.02. Bulletin of the American Astronomical Society, Vol. 55. San Antonio, TX.
7. **Noviello, J. L.**, Sohl, L., Kane, S., and Domagal-Goldman, S. (2023) Applying Lessons from Earth's Mass Extinction Events to the Search for Biosignatures on Exoplanets. In: *American Astronomical Society Meeting #242*, id. 403.05. Bulletin of the American Astronomical Society, Vol. 55. Albuquerque, NM.
8. **Noviello, J. L.**, Domagal-Goldman, S., and Kirven-Brooks, M. (2023) The NASA Astrobiology Program's Professional Advancement Workshop Series: Next Steps. In: *Lunar and Planetary Science LI*, Abstract #1325, Lunar and Planetary Institute, The Woodlands, TX.

9. **Noviello, J. L.**, Singer, K. N., and Desch, S. (2023) Spatial Clustering of Charon's Craters as a Means to Constrain Cryovolcanism. In: *Lunar and Planetary Science LI*, Abstract #1125, Lunar and Planetary Institute, The Woodlands, TX.
10. **Noviello, J. L.**, Kane, S. R., and Sohl, L. (2022) Investigating Mass Extinctions on Exoplanets: Lessons from Earth. In: *Exoplanets in Our Backyard 2*, LPI Contribution No. 2687, 2022, id.3059. Albuquerque, NM.
11. **Noviello, J. L.**, Domagal-Goldman, S., and Kirven-Brooks, M. (2022) The NASA Astrobiology Program's Professional Advancement Workshop Series. In: *AAS Division of Planetary Science Meeting 54*, id. 111.02. Bulletin of the American Astronomical Society, Vol. 54. London, Ontario, Canada.
12. **Noviello, J. L.**, Desch, S., Neveu, M., Proudfoot, B., and Sonnett, S. (2022) The Kuiper Belt Object Haumea's Internal Evolution Drove its Family's Formation. In: *AAS Division of Planetary Science Meeting 54*, id. 105.09. In: Bulletin of the American Astronomical Society, Vol. 54. London, Ontario, Canada.
13. **Noviello, J. L.**, Domagal-Goldman, S. D., and Kirven-Brooks, M. (2022) The NASA Astrobiology Programs Professional Advancement Workshop Series (PAWS): Learning from Experts and Each Other. In: *American Geophysical Union Astrobiology Science Conference 2022*, Abstract 106-04, Atlanta, GA.
14. **Noviello, J.** and Desch, S. (2021) Inside Out: Dwarf Planet Haumea's Internal Evolution and the Creation of the Haumean Collisional Family. In: *American Geophysical Union Conference*, Abstract P35D- 2157, New Orleans, LA.
15. Arrendondo, A., Hodges, A., Abrahams, J. N. H., Bedford, C. C., Boatwright, B. D., Buz, J., Cantrall, C., Clark, J., Erwin, A., Krishnamoorthy, S., Magaña, L., McCabe, R. M., McIntosh, E. C., **Noviello, J. L.**, Pellegrino, M., Ray, C., Styczinski, M., Weigel, P. (2021) VALENTInE: A Concept for a New Frontiers Class Long Duration In-situ Balloon Mission to Venus. In: *Lunar and Planetary Science LII*, Abstract 1526, Lunar and Planetary Institute, The Woodlands, TX.
16. **Noviello, J.** (2021). Suggested Practices for Effective Interdisciplinary Science Communication. In: *Bulletin of the American Astronomical Society*, Vol. 53, p. 0801, Habitable Worlds 2 Workshop.
17. **Noviello, J. L.**, Desch, S. J., and Neveu, M. (2020) Haumea's Formation and Evolution from a Graze- and-Merge Impact. In: Lunar and Planetary Science LI, Abstract 2894, Lunar and Planetary Institute, The Woodlands, TX.
18. **Noviello, J. L.** and Torrano, Z. A. (2020) An Investigation of the Relationships Between Double Ridges and Pits on Europa. In: Lunar and Planetary Science LI, Abstract 1562, Lunar and Planetary Institute, The Woodlands, TX.
19. **Noviello, J. L.**, Desch, S. J., Jackson, A. P. (2020) Testing Accretion Models Against the "Peas in a Pod" Observation of Exoplanets. In: Exoplanets in Our Backyard, Abstract 2195, id.3066, Lunar and Planetary Institute, Houston, TX.
20. Desch, S. J., Jackson, A. P., Mai, C., **Noviello, J. L.** (2020) Pebble Accretion by Bodies on Eccentric Orbits and the Mass Ratios of Exoplanets. In: *Exoplanets in Our Backyard*, Abstract 2195, id.3061, Lunar and Planetary Institute, Houston, TX.
21. Desch, S. J., **Noviello, J. L.**, Dunham, E. T., and Ragozzine, D. (2019) On the Origins of Haumea's Collisional Family. In: *European Planetary Science Conference/Division of Planetary Science Conference (EPSC-DPS2019)*, Vol. 13, Abstract 2041, Geneva, Switzerland.
22. **Noviello, J. L.**, Rhoden, A. R. (2019). Global microfeature mapping on Europa: Constraining microfeature formation models and the presence of liquid water in the ice shell. In: *Lunar and Planetary Science L*, Abstract 1461, Lunar and Planetary Institute, The Woodlands, TX.

23. Zamora, C. A., **Noviello, J. L.**, Rhoden, A. R. (2019). Identification of Microfeatures on Europa's Surface in High Resolution Images: Assessing the Completeness of Available Datasets. In: *Lunar and Planetary Science L*, Abstract 2096, Lunar and Planetary Institute, The Woodlands, TX.

24. Klug Boonstra, S., Kretke, K., Levison, H., Christensen, P. R., Olkin, C., Garcia, D., Nez, G., Doerres, D., and **Noviello, J.** (2019) The Lucy Student Pipeline Accelerator and Competency Enabler (L'SPACE): A New Model for NASA Student Collaborations to Enhance STEM Workforce Development at Scale. In: *Lunar and Planetary Science L*, Abstract 2132, Lunar and Planetary Institute, The Woodlands, TX.

25. **Noviello, J. L.**, Rhoden, A. R. (2018). Identification of Microfeatures on Europa in Low-resolution Galileo Images: Successes, Limits, and Implications for Europa's Exploration. In: Lunar and Planetary Science XLIX, Abstract 2707, Lunar and Planetary Institute, The Woodlands, TX.

26. **Noviello, J. L.**, Torrano, Z. A., Rhoden, A. R., Manga, M. (2017). The Inferred Distribution of Liquid Water in Europa's Ice Shell: Implications for the Europa Lander Mission. In: *American Geophysical Union Conference*, Abstract 232681, New Orleans, LA.

27. **Noviello, J. L.**, Rhoden, A. R., Torrano, Z. A., Manga, M. (2017). Microfeature Clustering on Europa: A Potential Clue to the Subsurface Structure. In: *Europa Deep Dive I: Ice Shell Exchange Processes*, Abstract 7013, Houston, TX.

28. West, S., **Noviello, J. L.**, Glaser, S., Dibb, S., Elkins-Tanton, L. T., Shock, E. (2017). The Evolution of Habitability in Small Rocky Bodies. In: *Astrobiology Science Conference 2017*, Abstract 3588, Mesa, AZ.

29. **Noviello, J. L.**, Rhoden, A. R., Leonard, E. J. (2016). Identifying icy chaos and chaotic regions on Europa in low-resolution images using a statistical approach. In: *American Geophysical Union Conference*, Abstract 160889, San Francisco, CA.

30. **Noviello, J. L.**, Rhoden, A. R. (2016). Order from Chaos: A quantitative approach to identifying small chaos features on Europa. In: *Lunar and Planetary Science XLVII*, Abstract 2579, Lunar and Planetary Institute, The Woodlands, TX.

31. **Noviello, J. L.**, Asphaug, E., Cotto-Figueroa, D. (2015). Using Mission Images to study Evidence of Block Motion on Asteroids: Determining Photoseismology Mission Requirements. In: *IAA Planetary Defense Conference IV*, IAA-PDC-15-04-07, Frascati, Rome, Italy.

32. **Noviello, J. L.**, Asphaug, E. (2015). Block mapping and analysis on cometary nuclei: identifying and quantifying surface change due to outgassing. In: *Lunar and Planetary Science XLVI*, Abstract 2873, Lunar and Planetary Institute, The Woodlands, TX.

33. **Noviello, J. L.**, Ying, X. Y., Wren, P. F., Stinnett, B. L., Akshay, R. T., Karjigi, S., Ridge, M. G., Koganti, P., Castillo-Rogez, J. C. (2015). The Reconnaissance of Apophis (RA) Picosatellite Mission Concept. In: *Spacecraft Reconnaissance of Asteroid and Comet Interiors*, Abstract 6031, Tempe, AZ

34. Perera, V., Cotto-Figueroa, D., **Noviello, J.**, Asphaug, E., Morris, M. (2015). Asteroid Origins Satellite (AOSAT): Science in a Cubesat Centrifuge. In: *pacecraft Reconnaissance of Asteroid and Comet Interiors*, Abstract 6024, Tempe, AZ.

35. **Noviello, J. L.**, Asphaug, E. (2014). Block mapping and analysis in asteroid regolith as a proxy for detecting and characterizing impact-triggered seismic events. In: AIDA International Workshop I, 37, The Johns Hopkins University Applied Physics Laboratory, Laurel, MD.

36. **Noviello, J. L.**, Barnouin, O. S., Ernst, C. M., Asphaug, E. I. (2014). Artificial Size Frequency Distribution Indices in Laboratory Experiments. In: *American Astronomical Society*, Division of Planetary Science XLVI, Poster 415.11, Tucson, AZ.

37. Ernst, C., Barnouin, O., **Noviello, J.**, Daly, M. (2014). Comparing block populations across small bodies. In: *Asteroids, Comets, Meteors*, Book of Abstracts, pg. 172, Helsinki, Finland.
38. Barnouin, O. S., **Noviello, J. L.**, Ernst, C. M. (2014). Are there Structural Lineaments on Itokawa? In: *Lunar and Planetary Science XLV*, Abstract 2221, Lunar and Planetary Institute, The Woodlands, TX.
39. **Noviello, J. L.**, Ernst, C. M., Barnouin, O. S., Daly, M. (2014). Block Distribution on Itokawa: Implications for Asteroid Surface Evolution. In: *Lunar and Planetary Science XLV*, Abstract 1587, Lunar and Planetary Institute, The Woodlands, TX.

Non-Peer Reviewed Projects

1. Woodrow Wilson Undergraduate Research Fellowship Final project, the Johns Hopkins University: a self-made documentary film entitled *Behind the Bones*: https://www.youtube.com/watch?v=T8wySyiynHk
2. Rivera Valentín, E. Lynch, K. and 49 others including **Noviello, J. L.** (2022) A Consensus Report on Recommendations from the 2022 Advancing IDEA in Planetary Science Conference. https://zenodo.org/record/6656887.YqyNRy-B2X0
3. Desch, S., Jackson, A., **Noviello, J.**, Anbar, A. (2021). The Chicxulub impactor: comet or asteroid? *Astronomy & Geophysics*, Vol. 62, Issue 3, pg. 3.34–3.37 https://doi.org/10.1093/astrogeo/atab069.
4. Malloy, J., **Noviello, J.**, and Walsh, J. The Seasons of Research (poem). In: *Consilience Journal*, Geosciences Special Issue. https://www.consilience-journal.com/si/geoscience/the-seasons-of-research.

Decadal Survey White Papers

1. Nolan, M., and 37 others including Noviello, J. (2021). Near-Earth Objects. In: Bulletin of the American Astronomical Society, Vol. 53, Issue 4, 220. https://baas.aas.org/pub/2021n4i220/release/1
2. Izenberg, N., and 30 others including Noviello, J. L. (2021). Planetary and Astrobiology Blank Papers; Science White Papers Cancelled or Downscaled Due to Direct Impact of COVID-19 and National-scale Civil Action. In: Bulletin of the American Astronomical Society, Vol. 53, Issue 4, 225. https://baas.aas.org/pub/2021n4i225/release/1
3. Walker, C. C., and 17 others including Noviello, J. L. (2021). The Importance of Further Studies and Missions to Understand Cryovolcanism. In: Bulletin of the American Astronomical Society, Vol. 53, Issue 4, 285. https://baas.aas.org/pub/2021n4i285/release/1
4. Tiscareno, M. S., and 15 others including Noviello, J. L. (2021). Planetary Nomenclature and Indigenous Communities. In: Bulletin of the American Astronomical Society, Vol. 53, Issue 4, 462. https://baas.aas.org/pub/2021n4i462/release/1
5. Vance, S. D., and 10 others including Noviello, J. L. (2021). Addressing Mental Health in Planetary Science. In: Bulletin of the American Astronomical Society, Vol. 53, Issue 4, 429. https://baas.aas.org/pub/2021n4i429/release/1