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RESEARCH INTERESTS

Small bodies; Binary asteroids; Solar System dynamics; Collisional processes; High-performance computing; Discrete element methods

APPOINTMENTS

Postdoctoral Fellow, Centre National d’Etudes Spatiales (CNES) Nov. 2025 - Nov. 2027
Observatoire de la Côte d’Azur, Nice, France
Project: *Next-generation N-body numerical methods in support of small-body exploration missions*

Postdoctoral Fellow, Université Côte d’Azur Oct. 2023 - Oct. 2025
IdEx (Initiative d’Excellence) Fellowship for Young Researchers
Observatoire de la Côte d’Azur, Nice, France
Project: *The Formation of Small Satellites in the Solar System*

Postdoctoral Researcher Mar. 2023 - Oct. 2023
Observatoire de la Côte d’Azur, Nice, France
Supervisor: Dr. Patrick Michel

EDUCATION

Ph.D., Astronomy 2022
University of Maryland, College Park, MD
Thesis: *The Dynamics of Binary Asteroids Applied to DART Mission Target (65803) Didymos*
Advisor: Prof. Derek Richardson

M.S., Astronomy 2019
University of Maryland, College Park, MD

B.A., Physics, B.A., Astrophysics 2017
University of California, Berkeley, CA

FELLOWSHIPS AND AWARDS

2025 Icarus “Best Reviewers of the Year” Award 2026

NASA Lucy Mission Participating Scientist 2025
Selected as a participating scientist (co-I) on Lucy, with 5 years of CNES support.

Université Côte d’Azur Initiative d’Excellence (IdEx) Young Researcher Award 2025
2nd place, IdEx “Young Researcher Awards”, Award: 5k€

Bonus Qualité Recherche (BQR) UniCA (internal award) 2025
Next-generation N-body numerical methods for self-gravitating granular systems, Award: 4k€

Bonus Qualité Recherche (BQR) Lagrange (internal award) 2024
The tidal disruption of Phobos, Award: 1.5k€

Asteroid 2000 KS₆₀ renamed 28888 Agrusa 2023
Awarded at the 2023 Asteroids, Comets, Meteors meeting
https://ssd.jpl.nasa.gov/tools/sbdb_lookup.html#/?sstr=28888

Excellence Fellowships for Young Researchers 2023
Université Côte d’Azur Initiative d’Excellence (IdEx) Postdoctoral Fellowship
Total award: 118k€

Dean's Fellow, University of Maryland	2021
College of Computer, Mathematical, and Natural Sciences, Award: \$2500	
Outstanding Research Assistant Award, University of Maryland Graduate School	2020
Named among the top 2% of campus Graduate Assistants	
John Chi-Lin Wang Award, Department of Astronomy, University of Maryland	2020
Awarded to the third-year graduate student with the best overall performance in course grades, second-year research project, and qualifying exam.	
Dean's Fellowship, University of Maryland Graduate School	2017
\$10,000 graduate recruitment fellowship	
Jacob K. Goldhaber Travel Award, University of Maryland	2022
Student Travel Award, AAS Division on Dynamical Astronomy	2022
Student Travel Award, Binary Asteroids 5 Workshop	2019
Student Poster Award, Lawrence Livermore National Laboratory	2019

SPACE MISSION INVOLVEMENT

- Participating Scientist / Co-I, NASA Lucy Mission
- Investigation Team Member, NASA Double Asteroid Redirection Test (DART) Mission
- Core Member, Investigation Team, ESA Hera Mission
- Core Member, Investigation Team, ESA RAMSES (Rapid Apophis Mission for Space Safety)
- Co-Investigator, JAXA Martian Moons eXploration (MMX) Mission
- Co-Investigator, JAXA Hayabusa2# Mission

SELECTED MEDIA COVERAGE

2025

New Scientist, [NASA's asteroid deflection test had unexpected and puzzling outcome](#)

The Guardian, [China opens recruitment for "planetary defence force" amid fears of asteroid hitting Earth](#)

2024

The Economist, [China plans to crash a spacecraft into a distant asteroid](#)

National Geographic, [Could a nuclear bomb's x-rays save Earth from a killer asteroid?](#)

Nature, [A spaceship punched an asteroid — we're about to learn what came next](#)

2023

New Scientist, [Asteroid hit by NASA spacecraft is behaving unexpectedly](#)

Space.com, [Here's what we've learned from NASA's DART asteroid-slamming mission so far](#)

Physics Today, [The rocky lives of cosmic rubble piles](#)

2022

Scientific American, [NASA's DART Spacecraft Successfully Smacks a Space Rock—Now What?](#)

Science, [‘Holy \\$@*%!’ Science captures behind-the-scenes reactions to asteroid-smashing mission](#)

The Wall Street Journal, [NASA's Asteroid-Smashing DART Mission Deemed a Success](#)

The Wall Street Journal, [NASA's DART Spacecraft Slams Into Asteroid in Effort to Alter Its Orbit](#)

WIRED Magazine, [Behold the Weird Physics of Double-Impact Asteroids](#)

KTVB, [Smashing success: NASA asteroid strike results in big nudge](#)

KTVB, [Eagle High grad helps with NASA Dart experiment](#)

2021

MIT Technology Review, [NASA is going to slam a spacecraft into an asteroid. Things might get chaotic.](#)

BBC World Service Newsday, [NASA: Mission to smash into Dimorphos space rock launches](#) **CW39**

Houston/KIAH, [NASA's DART Mission kicks off with successful launch on its way to hit asteroid](#)

Federal News Network, [Redirecting an asteroid as practice ... just in case](#)

iHeartRadio 610 WIOD, [Live radio interview for launch of NASA's DART Mission](#)

Stories from a Space Journalist Podcast, [Interview from Episode 4](#)

2019

European Space Agency, *Will DART make its target asteroid go wobbly? Hera will see*
HPCwire Magazine, *With the Help of HPC, Astronomers Prepare to Deflect a Real Asteroid*

PROFESSIONAL SERVICE

Journal referee

Icarus (7 manuscripts), *Planetary Science Journal* (4), *Astronomy & Astrophysics* (4), *Journal of Geophysical Research - Planets* (1), *Planetary and Space Science* (1), *Acta Astronautica* (1)
Recognized as one of *Icarus*' "Best Reviewers of 2025"

Panel Reviews

Reviewer, NASA Participating Scientist Program
Executive Secretary, NASA Participating Scientist Program

Ph.D. and Master's Thesis Involvement

Ph.D. Thesis Committee Member Nov. 2025 -

Hai-Shuo Wang, Ph.D., Aerospace Engineering
University of Colorado, Boulder
Advisor: Prof. Daniel Scheeres
Title: *Contact Binary Asteroid Mechanics with Application to Apophis*

Ph.D. Thesis External Opponent Nov. 2023

Alex Ho, Ph.D., Applied Mathematics
University of Agder, Grimstad, Norway
Advisor: Prof. Margrethe Wold
Title: *Modeling asteroid binary systems with the full two-body problem using surface integrals*

Master's Thesis External Examiner Dec. 2023

Irene Fernández, M.Sc., Space Engineering
Politecnico di Milano, Milan, Italy
Thesis Advisor: Prof. Fabio Ferrari
Title: *Post-impact dynamics of the Didymos system with a heterogeneous internal structure*

RESEARCH ADVISING

Camille Chatenet, Master's student (M2), Université de Nantes Spring 2024

Numerical modeling of the Didymos system after DART, co-advised with Dr. Patrick Michel
Now an astrophysics Ph.D. student at the Observatoire de Besançon.

Alyssa Mazzone, undergraduate, University of Maryland Spring 2022

Binary asteroid formation via YORP spin-up, co-advised with Prof. Derek Richardson
Now a software engineer at Mastercard.

Peter Santana, undergraduate, University of Puerto Rico at Mayagüez Winter 2020

Formation of binary asteroids through gravitational reaccumulation, [GRADMAP](#) Workshop
Now a master's student at UT Austin in computer science.

Meghna Sitaram, undergraduate, University of Maryland Fall 2019 - Spring 2020

Tidal dissipation in rubble-pile asteroids, co-advised with Prof. Derek Richardson
Now an astronomy Ph.D. student at Columbia University.

INVITED TALKS

SETI PATHS Seminar, Mountain View, CA	2025
Southwest Research Institute Colloquium, Boulder, CO	2024
AAS Division on Dynamical Astronomy Annual Meeting	2023
University of Maryland Aerospace Engineering Seminar	2022
University of Maryland Planetary Astronomy Seminar	2019

TEACHING EXPERIENCE

Teaching Assistantships:

ASTR 320: Theoretical Astrophysics, <i>UMD</i>	Spring, 2021
ASTR 101: Introduction to General Astronomy, <i>UMD</i>	Spring, 2020
ASTR 101: Introduction to General Astronomy, <i>UMD</i>	Spring, 2019
ASTR 415: Computational Astrophysics, <i>UMD</i>	Fall, 2018
ASTR 100/101: Introduction to General Astronomy, <i>UMD</i>	Fall, 2018
ASTR 220: Collisions in Space: The Threat of Asteroid Impacts, <i>UMD</i>	Spring, 2018
ASTR 100/101: Introduction to General Astronomy, <i>UMD</i>	Fall, 2017
Astro 12: The Planets, <i>UC Berkeley</i>	Spring, 2016
Astro 10: General Astronomy, <i>UC Berkeley</i>	Fall, 2016

Book Chapters

3. Eiblum, D., Lee, E. C., Forman, M., Mann, N., **Agrusa, H. F.**, Kaplan-Cohen, M., Miller, W., Vishnubhotla, R., and Zheng, D. **2022**. GED Ultimate Study Guide: for the Math-Phobic. Gaithersburg, MD: Superlative Press.
2. Eiblum, D., Lee, E. C., Forman, M., Mann, N., **Agrusa, H. F.**, Kaplan-Cohen, M., Miller, W., Vishnubhotla, R., and Zheng, D. **2021**. Praxis Core Math 5733: A Workbook for the Math Phobic. Gaithersburg, MD: Superlative Press.
1. Eiblum, D., Lee, E. C., Forman, M., Mann, N., **Agrusa, H. F.**, Kaplan-Cohen, M., Miller, W., Vishnubhotla, R., and Zheng, D. **2020**. Praxis Core Math 2020: A Complete Course. Gaithersburg, MD: Superlative Press.

REFEREED PUBLICATIONS

46 refereed publications, 8 as first-author

Total citations: 1838, h-index: 20 (as of February 3, 2026, via [Google Scholar](#))

First-Author Publications

8. **Agrusa, H.** and Michel, P. **2026**. “[Tidal disruptions of rubble piles: the case of Phobos](#)”. *A&A*. (In press, to be published Feb. 24. Figure 5 was selected as a cover photo.)
7. **Agrusa, H.** and Chatenet, C. **2025**. “[Gravitational scattering of ejecta in the Didymos system cannot explain the evolution of the binary’s orbital period](#)”. *A&A* 702, A122, A122.
6. **Agrusa, H.** and Michel, P. **2025**. “[The Influence of Central Body Tides on Catastrophic Disruptions of Close-in Planetary Satellites](#)”. *ApJ* 992.1, 74, p. 74.
5. **Agrusa, H. F.**, Zhang, Y., Richardson, D. C., et al. **2024**. “[Direct N-body Simulations of Satellite Formation around Small Asteroids: Insights from DART’s Encounter with the Didymos System](#)”. *PSJ* 5.2, 54, p. 54.
4. **Agrusa, H. F.**, Ballouz, R., Meyer, A. J., Tasev, E., Noiset, G., Karatekin, Ö., Michel, P., Richardson, D. C., and Hirabayashi, M. **2022**. “[Rotation-induced granular motion on the secondary component of binary asteroids: Application to the DART impact on Dimorphos](#)”. *A&A* 664, L3, p. L3.
3. **Agrusa, H. F.**, Ferrari, F., Zhang, Y., Richardson, D. C., and Michel, P. **2022**. “[Dynamical Evolution of the Didymos-Dimorphos Binary Asteroid as Rubble Piles following the DART Impact](#)”. *PSJ* 3.7, 158, p. 158.

2. **Agrusa, H. F.**, Gkolias, I., Tsiganis, K., et al. **2021**. “[The excited spin state of Dimorphos resulting from the DART impact](#)”. *Icarus* 370, 114624, p. 114624.
1. **Agrusa, H. F.**, Richardson, D. C., Davis, A. B., et al. **2020**. “[A benchmarking and sensitivity study of the full two-body gravitational dynamics of the DART mission target, binary asteroid 65803 Didymos](#)”. *Icarus* 349, 113849, p. 113849.

Second-Author or Major Role

13. Raducan, S., **Agrusa, H.**, Asphaug, E., Ernst, C. M., Jutzi, M., Michel, P., Popescu, M., and Sugita, S. **2026**. “The violent history of Deimos, the smallest of the Martian moons”. *Nature Geoscience* (in review).
12. Raducan, S. D., Madeira, G., **Agrusa, H. F.**, et al. **2025**. “[Multiple moonlet mergers as the origin of the Dinkinesh-Selam system](#)”. *Nature Communications* 16.1, 11033, p. 11033.
11. Walsh, K. J., Ballouz, R.-L., **Agrusa, H. F.**, Hanus, J., Jutzi, M., and Michel, P. **2025**. “[Satellite Formation around the Largest Asteroids](#)”. *ApJ* 986.1, L12, p. L12.
10. Ballouz, R. L., **Agrusa, H.**, Barnouin, O. S., et al. **2024**. “[Shaking and Tumbling: Short- and Long-timescale Mechanisms for Resurfacing of Near-Earth Asteroid Surfaces from Planetary Tides and Predictions for the 2029 Earth Encounter by \(99942\) Apophis](#)”. *PSJ* 5.11, 251, p. 251.
9. Barnouin, O., Ballouz, R.-L., Marchi, S., [...], **Agrusa, H.**, et al. **2024**. “[The geology and evolution of the Near-Earth binary asteroid system \(65803\) Didymos](#)”. *Nature Communications* 15, 6202, p. 6202.
8. Ćuk, M., **Agrusa, H.**, Cueva, R. H., et al. **2024**. “[BYORP and Dissipation in Binary Asteroids: Lessons from DART](#)”. *PSJ* 5.7, 166, p. 166.
7. Daly, R. T., Ernst, C. M., Barnouin, O. S., [...], **Agrusa, H.**, et al. **2024**. “[An Updated Shape Model of Dimorphos from DART Data](#)”. *PSJ* 5.1, 24, p. 24.
6. Richardson, D. C., **Agrusa, H. F.**, Barbee, B., et al. **2024**. “[The Dynamical State of the Didymos System before and after the DART Impact](#)”. *PSJ* 5.8, 182, p. 182.
5. Cheng, A. F., **Agrusa, H. F.**, Barbee, B. W., et al. **2023**. “[Momentum transfer from the DART mission kinetic impact on asteroid Dimorphos](#)”. *Nature* 616.7957, pp. 457–460.
4. Daly, R. T., Ernst, C. M., Barnouin, O. S., [...], **Agrusa, H. F.**, et al. **2023**. “[Successful kinetic impact into an asteroid for planetary defence](#)”. *Nature* 616.7957, pp. 443–447.
3. Meyer, A. J., **Agrusa, H. F.**, Richardson, D. C., et al. **2023**. “[The Perturbed Full Two-body Problem: Application to Post-DART Didymos](#)”. *PSJ* 4.8, 141, p. 141.
2. Richardson, D. C., **Agrusa, H. F.**, Barbee, B., et al. **2022**. “[Predictions for the Dynamical States of the Didymos System before and after the Planned DART Impact](#)”. *PSJ* 3.7, 157, p. 157.
1. Marohnic, J. C., Richardson, D. C., McKinnon, W. B., **Agrusa, H. F.**, et al. **2021**. “[Constraining the final merger of contact binary \(486958\) Arrokoth with soft-sphere discrete element simulations](#)”. *Icarus* 356, 113824, p. 113824.

Contributing Author

25. Dai, W.-Y., Cheng, B., Huang, Y., [...], **Agrusa, H.**, et al. **2026**. “Diverse configurations of binary asteroids explained by multi-generation satellites”. *Nature Communications* (in revision).
24. Marchi, S., Levison, H. F., Noll, K. S., [...], **Agrusa, H.**, et al. **2026**. “The Lucy flyby of asteroid (52246) Donaldjohanson: A bilobed object with a complex history”. *Science* (in revision).
23. Sunshine, J., Rizos, J., Barnouin, O., [...], **Agrusa, H.**, et al. **2026**. “Evidence of Recent Material Transport within a Binary Asteroid System”. *PSJ* (accepted).
22. Zhou, W.-H., Kokubo, E., **Agrusa, H.**, Ricerchi, G., Crida, A., Zhang, Y., and Ballouz, R.-L. **2026**. “Decretion of Saturn’s rings under an eclipse-driven thermal force”. *ApJ* (in revision).
21. Farnham, T. L., Sunshine, J. M., Hirabayashi, M., [...], **Agrusa, H. F.**, et al. **2025**. “[High-speed Boulders and the Debris Field in DART Ejecta](#)”. *PSJ* 6.7, 155, p. 155.
20. Ferrari, F., Panicucci, P., Merisio, G., [...], **Agrusa, H.**, et al. **2025**. “[Morphology of Ejecta Features from the Impact on Asteroid Dimorphos](#)”. *Nature Communications* 16.1, p. 1601.

19. Hirabayashi, M., Raducan, S. D., Sunshine, J. M., [...], **Agrusa, H. F.**, et al. **2025**. “[Elliptical ejecta of asteroid Dimorphos is due to its surface curvature](#)”. *Nature Communications* 16.1, 1602, p. 1602.
18. Stickle, A. M., Kumamoto, K. M., Graninger, D. M., [...], **Agrusa, H.**, et al. **2025**. “[Dimorphos’s Material Properties and Estimates of Crater Size from the DART Impact](#)”. *PSJ* 6.2, 38, p. 38.
17. Ďurech, J., Pravec, P., Hirabayashi, M., Richardson, D. C., **Agrusa, H.**, and Nakano, R. **2025**. “[A Change of the Rotation Period of Asteroid \(65803\) Didymos Caused by the DART Impact](#)”. *PSJ* 6.12, 308, p. 308.
16. Athanasopoulos, D., Hanuš, J., Avdellidou, C., [...], and **Agrusa, H.** **2024**. “[Spin states of X-complex asteroids in the inner main belt: I. Investigating Athor and Zita collisional families](#)”. *A&A* 690, A215, A215.
15. Chabot, N. L., Rivkin, A. S., Cheng, A. F., [...], **Agrusa, H. F.**, et al. **2024**. “[Achievement of the Planetary Defense Investigations of the Double Asteroid Redirection Test \(DART\) Mission](#)”. *PSJ* 5.2, 49, p. 49.
14. Nakano, R., Hirabayashi, M., Raducan, S. D., [...], **Agrusa, H. F.**, et al. **2024**. “[Dimorphos’s Orbit Period Change and Attitude Perturbation due to Its Reshaping after the DART Impact](#)”. *PSJ* 5.6, 133, p. 133.
13. Pajola, M., Tusberty, F., Lucchetti, A., [...], **Agrusa, H.**, et al. **2024**. “[Evidence for multi-fragmentation and mass shedding of boulders on rubble-pile binary asteroid system \(65803\) Didymos](#)”. *Nature Communications* 15, 6205, p. 6205.
12. Pravec, P., Meyer, A. J., Scheirich, P., Scheeres, D. J., Benson, C. J., and **Agrusa, H. F.** **2024**. “[Rotational lightcurves of Dimorphos and constraints on its post-DART impact spin state](#)”. *Icarus* 418, 116138, p. 116138.
11. Raducan, S. D., Jutzi, M., Cheng, A. F., [...], **Agrusa, H. F.**, et al. **2024**. “[Physical properties of asteroid Dimorphos as derived from the DART impact](#)”. *Nature Astronomy* 8, pp. 445–455.
10. Scheirich, P., Pravec, P., Meyer, A. J., **Agrusa, H. F.**, Richardson, D. C., Chesley, S. R., Naidu, S. P., Thomas, C., and Moskovitz, N. A. **2024**. “[Dimorphos Orbit Determination from Mutual Events Photometry](#)”. *PSJ* 5.1, 17, p. 17.
9. Zhou, W.-H., Vokrouhlický, D., Kanamaru, M., **Agrusa, H.**, Pravec, P., Delbo, M., and Michel, P. **2024**. “[The Yarkovsky Effect on the Long-term Evolution of Binary Asteroids](#)”. *ApJ* 968.1, L3, p. L3.
8. Meyer, A. J., Scheeres, D. J., **Agrusa, H. F.**, Noiset, G., McMahon, J., Karatekin, Ö., Hirabayashi, M., and Nakano, R. **2023**. “[Energy dissipation in synchronous binary asteroids](#)”. *Icarus* 391, 115323, p. 115323.
7. Thomas, C. A., Naidu, S. P., Scheirich, P., [...], and **Agrusa, H. F.** **2023**. “[Orbital period change of Dimorphos due to the DART kinetic impact](#)”. *Nature* 616.7957, pp. 448–451.
6. Kim, B. I., Boehm, R. D., and **Agrusa, H. F.** **2022**. “[Coil-to-Bridge Transitions of Self-Assembled Water Chains Observed in a Nanoscopic Meniscus](#)”. *Langmuir* 38.15, pp. 4538–4546.
5. Nakano, R., Hirabayashi, M., **Agrusa, H. F.**, Ferrari, F., Meyer, A. J., Michel, P., Raducan, S. D., Sánchez, P., and Zhang, Y. **2022**. “[NASA’s Double Asteroid Redirection Test \(DART\): Mutual Orbital Period Change Due to Reshaping in the Near-Earth Binary Asteroid System \(65803\) Didymos](#)”. *PSJ* 3.7, 148, p. 148.
4. Statler, T. S., Raducan, S. D., Barnouin, O. S., [...], **Agrusa, H. F.**, et al. **2022**. “[After DART: Using the First Full-scale Test of a Kinetic Impactor to Inform a Future Planetary Defense Mission](#)”. *PSJ* 3.10, 244, p. 244.
3. Meyer, A. J., Gkolias, I., Gaitanas, M., **Agrusa, H. F.**, et al. **2021**. “[Libration-induced Orbit Period Variations Following the DART Impact](#)”. *PSJ* 2.6, 242, p. 242.
2. Rivkin, A. S., Chabot, N. L., Stickle, A. M., [...], **Agrusa, H.**, et al. **2021**. “[The Double Asteroid Redirection Test \(DART\): Planetary Defense Investigations and Requirements](#)”. *PSJ* 2.5, 173, p. 173.

1. Zhang, Y., Michel, P., Richardson, D. C., Barnouin, O. S., **Agrusa, H. F.**, Tsiganis, K., Manzonei, C., and May, B. H. **2021**. “[Creep stability of the DART/Hera mission target 65803 Didymos: II. The role of cohesion](#)”. *Icarus* 362, 114433, p. 114433.

Selected Conference Proceedings

Only including abstracts with available SAO/NASA ADS listings

56. **Agrusa, H.**, Ćuk, M., Nesvorný, D., and Marschall, R. **2025**. “[The Curious Case of Neptune’s Naiad](#)”. *EPSC-DPS Joint Meeting 2025 (EPSC-DPS2025, EPSC-DPS2025-816, EPSC-DPS2025-816)*.
55. Ballouz, R. L., **Agrusa, H. F.**, Barnouin, O. S., et al. **2025**. “Shaking and Tumbling: Short-And Long-Timescale Mechanisms for the Resurfacing of (99942) Apophis”. *Apophis T-4 Years*. Vol. 3083. LPI Contributions, 2014, p. 2014.
54. Bierhaus, E., Robbins, S., Scully, J., [...], **Agrusa, H.**, et al. **2025**. “[An overview of the geology on the C-type Main Belt asteroid \(52246\) Donaldjohanson from NASA’s Lucy flyby](#)”. *EPSC-DPS Joint Meeting 2025 (EPSC-DPS2025, EPSC-DPS2025-445, EPSC-DPS2025-445)*.
53. Ćuk, M., **Agrusa, H.**, Anand, K., and Minton, D. **2025**. “[Dynamics and Fate of the Past Martian Rings](#)”. *EPSC-DPS Joint Meeting 2025 (EPSC-DPS2025, EPSC-DPS2025-139, EPSC-DPS2025-139)*.
52. Dai, W.-Y., Cheng, B., Huang, Y., [...], **Agrusa, H.**, et al. **2025**. “[Diverse configurations of binary asteroids explained by multi-generation satellites](#)”. *EPSC-DPS Joint Meeting 2025 (EPSC-DPS2025, EPSC-DPS2025-1387, EPSC-DPS2025-1387)*.
51. Hirabayashi, M., Mottola, S., Bierhaus, E., [...], **Agrusa, H.**, et al. **2025**. “[Interior and gravity characterization of the C-type asteroid \(52246\) Donaldjohanson seen by NASA’s Lucy flyby](#)”. *EPSC-DPS Joint Meeting 2025 (EPSC-DPS2025, EPSC-DPS2025-140, EPSC-DPS2025-140)*.
50. Knight, M. M., Scheirich, P., Pravec, P., [...], **Agrusa, H.**, et al. **2025**. “[Ground-based observations of \(65803\) Didymos 2.5 years after the DART impact: searching for ongoing evolution](#)”. *EPSC-DPS Joint Meeting 2025 (EPSC-DPS2025, EPSC-DPS2025-866, EPSC-DPS2025-866)*.
49. Noll, K., **Agrusa, H.**, Barnouin, O., et al. **2025**. “[\(52246\) Donaldjohanson and the Architecture of Bilobed Small Bodies](#)”. *EPSC-DPS Joint Meeting 2025 (EPSC-DPS2025, EPSC-DPS2025-859, EPSC-DPS2025-859)*.
48. Raducan, S. D., Madeira, G., **Agrusa, H. F.**, Merrill, C. C., Marschall, R., Ferrari, F., Wimarsson, J., S. Charnoz, S., and Jutzi, M. **2025**. “Asteroid Moon Formation Through Low-Velocity Mergers”. *56th Lunar and Planetary Science Conference*. Vol. 3090. LPI Contributions, 2336, p. 2336.
47. Scully, J., Nichols-Fleming, F., Robbins, S., [...], **Agrusa, H.**, et al. **2025**. “[Geologic Mapping of Asteroid \(52246\) Donaldjohanson as observed by NASA’s Lucy mission](#)”. *EPSC-DPS Joint Meeting 2025 (EPSC-DPS2025, EPSC-DPS2025-378, EPSC-DPS2025-378)*.
46. Walsh, K., Ballouz, R.-L., **Agrusa, H.**, Hanus, J., Jutzi, M., and Michel, P. **2025**. “[Satellite formation around the largest asteroids](#)”. *EPSC-DPS Joint Meeting 2025 (EPSC-DPS2025, EPSC-DPS2025-402, EPSC-DPS2025-402)*.
45. **Agrusa, H.** and Michel, P. **2024**. “[The influence of tides on catastrophic disruptions of close-in planetary satellites](#)”. *European Planetary Science Congress, EPSC2024-524, EPSC2024-524*.
44. **Agrusa, H.** and Michel, P. **2024**. “The tidal disruption of Phobos”. *AAS/Division for Planetary Sciences Meeting Abstracts*. Vol. 56. AAS/Division for Planetary Sciences Meeting Abstracts, 406.01, p. 406.01.
43. Ballouz, R. L., Barnouin, O. S., **Agrusa, H.**, Binzel, R. P., DellaGiustina, D. N., Tang, Y., Walsh, K. J., and Zhang, Y. **2024**. “Tidally-Induced Tumbling as a Mechanism for Near-Earth Asteroid Surface Refreshing: Implications for (99942) Apophis’ 2029 Earth Encounter”. *Apophis T-5 Workshop*. Vol. 3006. LPI Contributions, 2062, p. 2062.
42. Ballouz, R. L., Walsh, K. J., **Agrusa, H. F.**, and Jutzi, M. **2024**. “Formation of Large Multi-Asteroid Systems Through Sub-Catastrophic Impacts”. *55th Lunar and Planetary Science Conference*. Vol. 3040. LPI Contributions, 2316, p. 2316.

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