CURRICULUM VITAE

Theodore Kareta

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(a) Education

Lunar and Planetary Laboratory Tucson, AZ Planetary Sciences Graduate (PhD) Student University of Massachusetts Amherst, MA Physics, Astronomy B.S. *Cum Laude*, 2017

(b) Research & Professional Experience

2017 – Present	Graduate Research & Teaching Assistant, Lunar and Planetary Laboratory
2016 - 2017	Outreach Observatory Director, University of Massachusetts
2017 2017	

2015 – 2017 Undergraduate Astronomy Researcher, University of Massachusetts

(c) Publications (Peer-Reviewed)

First-Author Publications (5 Published, 1 Additional In Review Not Listed)

- 1. Kareta, T., Hergenrother, C., Reddy, V., & Harris, W. M., Surfaces of (Nearly) Dormant Comets and the Recent History of the Quadrantid Meteor Shower. 2021, The Planetary Science Journal, 2, 31, doi: 10.3847/PSJ/abd403
- 2. Kareta, T., Reddy, V., Hergenrother, C., et al., Rotationally Resolved Spectroscopic Characterization of Near-Earth Object (3200) Phaethon. 2018, The Astronomical Journal, 156, 287, doi: 10.3847/1538-3881/aaeb8a
- 3. Kareta, T., Sharkey, B., Noonan, J., et al., Physical Characterization of the 2017 December Outburst of the Centaur 174P/Echeclus. 2019, The Astronomical Journal, 158, 255, doi: 10.3847/1538-3881/ab505f
- 4. Kareta, T., Andrews, J., Noonan, J. W., et al., Carbon Chain Depletion of 2I/Borisov. 2020, The Astrophysical Journal, 889, L38, doi: 10.3847/2041-8213/ab6a08
- 5. Kareta, T., Woodney, L. M., Schambeau, C., et al., Contemporaneous Multiwavelength and Precovery Observations of the Active Centaur P/2019 LD2 (ATLAS). 2021, The Planetary Science Journal, 2, 48, doi: 10.3847/PSJ/abe23d

Co-Author Publications (9 Published)

- 1. Dellagiustina, D. N., Emery, J. P., Golish, D. R., et al., Properties of rubble-pile asteroid (101955) Bennu from OSIRIS-REx imaging and thermal analysis. 2019, Nature Astronomy, 3, 341, doi: 10.1038/s41550-019-0731-1
- 2. Fieber-Beyer, S. K., Kareta, T., Reddy, V., & Gaffey, M. J., Near-earth asteroid: (285263) 1998 QE2. 2020, Icarus, 347, 113807, doi: 10.1016/j.icarus.2020.113807
- 3. Hergenrother, C. W., Maleszewski, C. K., Nolan, M. C., et al., The operational environment and rotational acceleration of asteroid (101955) Bennu from OSIRIS-REx observations. 2019, Nature Communications, 10, 1291, doi: 10.1038/s41467-019-09213-x
- 4. Hergenrother, C. W., Maleszewski, C., Li, J. Y., et al., Photometry of Particles Ejected From Active Asteroid (101955) Bennu. 2020, Journal of Geophysical Research (Planets), 125, e06381, doi: 10.1029/2020JE006381

- 5. Noonan, J. W., Reddy, V., Harris, W. M., et al., Search for the H Chondrite Parent Body among the Three Largest S-type Asteroids: (3) Juno, (7) Iris, and (25) Phocaea. 2019, 158, 213, doi: 10.3847/1538-3881/ab4813
- 6. Reddy, V., Kelley, M. S., Farnocchia, D., et al., Near-Earth asteroid 2012 TC4 observing campaign: Results from a global planetary defense exercise. 2019, , 326, 133, doi: 10.1016/j.icarus.2019.02.018
- 7. Sanchez, J. A., Reddy, V., Thirouin, A., et al., Physical Characterization of Active Asteroid (6478) Gault. 2019, , 881, L6, doi: 10.3847/2041-8213/ab31ac
- 8. Steckloff, J. K., Sarid, G., Volk, K., et al., P/2019 LD2 (ATLAS): An Active Centaur in Imminent Transition to the Jupiter Family. 2020, , 904, L20, doi: 10.3847/2041-8213/abc888
- 9. Takir, D., Kareta, T., Emery, J. P., et al., Near-infrared observations of active asteroid (3200) Phaethon reveal no evidence for hydration. 2020, Nature Communications, 11, 2050, doi: 10.1038/s41467-020-15637-7

(d) Awards & Press Coverage

- 1. Lunar and Planetary Laboratory Gerard P. Kuiper Memorial Award (2021)
- 2. University of Arizona College of Science Excellence in Scholarship Award (2021)
- 3. DPS Press Release for First Author Paper (2018 Phaethon, 2020 P/2019 LD2)
- 4. Best Graduate Student Talk Award (Lunar and Planetary Laboratory Conference 2020)
- 5. Morton and Helen Sternheim Undergraduate Award for Educational Outreach (UMass, 2017)

(e) Invited Talks

- 1. International Symposium on Dust and Parent Bodies (IDP) (Tokyo, Japan, Feb. 2019)
- 2. Lowell Observatory (Flagstaff, USA, March 2018)

(f) Community & DEI Service & Teaching

- 1. Mentoring of 3 Undergraduates, 1 H.S. Student (incl. 3 Women, URM) (2018 Present)
- 2. Consistent Member of LPL Allyship Group, DEI Reading Group (2017 Present)
- 3. Founder of Women and URM Mentorship in Astronomy Mentorship Program (UMass)
- 4. Regular referee for Icarus, Planetary Science Journal, Planetary and Space Science
- 5. Panel Member and Executive Secretary on NASA Grant Review Panels
- 6. Lunar and Planetary Conference Organizer, Lead (2018 Present, 2019)
- 7. SpaceDrafts Co-Organizer (Tucson's Astronomy on Tap, 2020 Present)
- 8. LPL Journal Club Co-Lead (2018 2020)
- 9. Teaching Assisant for Introduction to Computational Physics (UMass, 2016), Asteroids, Comets, and Kuiper Belt Objects (UAz, 2018), Building a Habitable World (UAz, 2019)

(g) Telescope Proposals & Observing

- 1. Large Binocular Telescope (Mount Graham, AZ) (2 DDT PI'd Proposals for half nights.)
- 2. Gemini South (Cerro Pachon, Chile) (0.5 nights PI)
- 3. NASA Infrared Telescope Facility (Mauna Kea, HI) (0.5 nights PI + 8 nights Co-I)
- 4. WIYN 0.9m Telescope (Kitt Peak, AZ) (2 nights PI + 6 nights Co-I)
- 5. Additional Observing: MMT Observatory (Mount Hopkins, AZ), various small telescopes