

## Amanda A. Sickafoose

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### Summary

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I am a planetary astronomer with experience managing a large, highly-technical division at a national facility. Active areas of research include characterizing distant Solar System bodies through stellar occultations (e.g. monitoring Pluto's evolving atmosphere and placing size and atmospheric constraints on trans-Neptunian objects), studying Centaur environments (rings, jets, and comae), and observing exoplanet transits.

My qualifications include the following:

- ✦ astronomical research expertise in experimental dusty plasmas, observational characterizations of bodies in the outer Solar System, and capitalizing on South Africa's geographic location to observe Near Earth Asteroids;
- ✦ highly collaborative researcher, working with multiple international groups for planetary science and involved in a variety of other astronomical observations (e.g. stars, supernovae, planetary nebula);
- ✦ principle investigator for three innovative astronomical instruments (visible-wavelength imagers, with high-speed capabilities and accurate timing) and high-level manager for multiple other instrumentation projects;
- ✦ >70 publications in refereed journals (*h*-index of 32), 19 conference proceedings, multiple announcements (including those from the Deep Ecliptic Survey, which discovered over 500 Kuiper Belt objects), and >130 conference abstracts;
- ✦ proven success as a manager, with active leadership of a ~20-person, instrument-building team and serving on an Observatory Executive for six years;
- ✦ research-group leader with experience supervising students and postdocs;
- ✦ successful funding record in the U.S.A. and South Africa;
- ✦ active community member, contributing to colloquia, public talks, radio/television interviews, journal reviews, and committees.

### Education

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<b>certificate (NQF Level 6)</b>	University of Stellenbosch Business School, South Africa	<b>2015</b>
	Executive Development: National Research Foundation Management Development Programme (NRF MDP; 1 year)	
	<i>Director's Award for top student</i>	
<b>Ph.D.</b>	University of Colorado, Boulder CO	<b>2002</b>
	Astrophysical, Planetary, and Atmospheric Sciences	
	Thesis: <i>Experimental Dust Charging and Dynamics with Applications for Planetary Environments</i>	
	Advisor: Joshua Colwell Co-advisors: Scott Robertson and Mihály Horányi	
<b>M.S.</b>	University of Colorado, Boulder CO	<b>1999</b>
	Astrophysical, Planetary, and Atmospheric Sciences	
<b>B.S.</b>	Denison University, Granville OH	<b>1997</b>
	Majors: Physics, Mathematics Minor: Astronomy	
	<i>Graduated cum laude from the Honors Department</i>	
	United States Air Force Academy (USAFA), Colorado Springs CO	<b>1993–1995</b>

### Work History

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<b>Senior Scientist</b>		<b>01/2019–present</b>
	<b>Planetary Science Institute (PSI)</b>	
	This non-profit organization provides a strong planetary research community and facilitates submission of research proposals.	
Research Affiliate		<b>06/2008–2020</b>
	<i>Massachusetts Institute of Technology (MIT)</i>	
	Appointed as a result of successful research work at MIT, this non-salaried position in the Department of Earth, Atmospheric, & Planetary Sciences facilitated U.S. research collaborations. Faculty sponsor is Prof. Richard Binzel.	
Head of Instrumentation Division		<b>01/2014–01/2020</b>
	<i>South African Astronomical Observatory (SAAO)</i>	
	Responsibilities include: (i) managing a technical team that supports nearly two dozen telescopes and experiments at the Sutherland site, builds new instruments for the SAAO telescopes, and runs a state-of-the-art mechanical workshop; (ii) carrying out astronomical research; (iii) supervising students and postdocs, with the goal of establishing a permanent planetary science community in South Africa; (iv) securing funding for research and instrumentation projects; and (v) administrative tasks including financial, asset, and personnel management as well as serving on the SAAO Executive.	

SALT Astronomer <i>Southern African Large Telescope (SALT) at the SAAO</i> Responsibilities included: (i) regular service observing at the 10-m telescope (~1 week in 6); (ii) providing support to the SALT community for proposals, observations, and data analysis, as well as specifically serving as the primary instrumentation contact for the Berkeley Visible Imaging Tube (BVIT) and certain modes of SALTICAM; (iii) research involving observations and data analysis of outer Solar System bodies; (iv) supervising a student and postdoctoral researcher; and (v) securing funding for research and instrumentation projects.	<b>06/2008–12/2013</b>
Research Scientist <i>Department of Earth, Atmospheric, &amp; Planetary Sciences, MIT</i> Responsibilities included: (i) observations and data analysis of outer Solar System bodies (including pipeline calibration, astrometry, orbital dynamics, aperture photometry, diffraction modeling, and light curve inversion); (ii) co-supervising students and research assistants, including hiring processes; and (iii) securing funding for research and instrumentation projects.	<b>03/2006–05/2008</b>
Instructor and Course Administrator <i>12.409/12s23: Hands-On Astronomy, MIT</i>	<b>Spring 2007</b>
Postdoctoral Associate <i>Department of Earth, Atmospheric, &amp; Planetary Sciences, MIT</i>	<b>08/2003–02/2006</b>
Postdoctoral Research Associate <i>Center for Integrated Plasma Studies, Univ. of Colorado</i>	<b>01/2003–07/2003</b>
Research Assistant <i>Laboratory for Atmospheric and Space Physics, Univ. of Colorado</i>	<b>08/1998–12/2002</b>
Teaching Assistant <i>APS 1010 Lab.: Introduction to Astronomy, Univ. of Colorado</i>	<b>1997–2000 (3 semesters)</b>
Undergraduate Research Assistant <i>NSF Research Experience for Undergraduates program at Northern Arizona University and Lowell Observatory, Flagstaff, AZ</i>	<b>Summer 1996 and 1997</b>
Undergraduate Teaching Assistant <i>Department of Physics and Astronomy, Denison University</i>	<b>1995–1997</b>
Active duty military (cadet) <i>United States Air Force Academy</i>	<b>1993–1995</b>

## Professional Societies, Qualifications, and Awards

- ✦ **Memberships:** American Astronomical Society (AAS) Division for Planetary Sciences (DPS); International Astronomical Union (IAU); SPIE; African Astronomical Society (AfAS); Honorary member of the Astronomical Society of South Africa (ASSA; Hermanus Centre); Undergraduate academic organizations Phi Beta Kappa, Sigma Pi Sigma, Sigma Xi.
- ✦ **Major instrumentation projects and missions:**
  - NASA's Double Asteroid Redirect Test mission (DART; impact 2022), *member of the Science Investigation Team*
  - Mookodi (2022; low-resolution spectrograph for SAAO Lesedi), *local project lead through 2019*
  - Sibonise (2020; 6k x 6k Wide-field Nasmyth Camera for the SAAO Lesedi), *manager of division carrying out project through 2019*
  - SpUpNIC (2014; complete overhaul of spectrograph on 74" SAAO telescope), *manager of division carrying out project*
  - SHOC (2014; Sutherland High-speed Optical Cameras) software upgrade to allow web-based interfacing, *project manager*
  - SHOC (2012; two high-speed, accurately-timed, imaging systems for the SAAO telescopes), *PI for funding and project*
  - MORIS (2010; MIT Optical Rapid Imaging System, on the 3-m IRTF), *PI for funding and project*
  - POETS (2005; Portable Occultation Eclipse and Transit Systems), *MIT project lead*
- ✦ **Telescope experience:** *Onsite* at 10-m SALT, 74 inch, 40 inch, and 1 m at Sutherland, South Africa; 6.5-m Magellan and 2.5-m du Pont at Las Campanas Obs., Chile; 3.9-m AAT at Siding Spring Obs., Australia; 3-m IRTF at Mauna Kea Obs., HI; 2.3-m Electro Optic Systems at Mt. Stromlo, Australia; 72-, 42-, 31-, and 18-inch at Lowell Obs., AZ; 1-m ATOM at H.E.S.S., Namibia; 1.3 m at Sendai Astronomical Obs., Japan; 0.9-m WIYN at Kitt Peak, AZ; 24-, 14-, and 11-inch at MIT's Wallace Astrophysical Obs., MA; 24-, 18-, and 16-inch at Sommers-Bausch Obs., CO; 0.5- and 0.4-m at Auckland Obs., New Zealand; and 14-, 12- and 10-inch, portable Meade telescopes. *Remote* with SAAO 74- and 40-inch; 3-m IRTF at Mauna Kea Obs., HI; 1-m LCO(GT) worldwide; and 1.2-m MONET at McDonald Obs., TX.
- ✦ South Africa National Research Foundation **rated scientist:** C1 rating 2016-2021, C2 rating 2009-2015.
- ✦ **Awards:** Director's Award, NRF MDP Programme, 2015; Outstanding Student Paper Award: fall American Geophysical Union meeting, 2002; Best oral presentation by a young scientist: 3rd International Conference on the Physics of Dusty Plasmas, Durban, South Africa, May 2002; Denison University Wheeler Award, 1997; Dean's List (eight semesters); USAFA Commandant's List (military achievement: three semesters); USAFA Athletic Director's List (one semester); Tandy Technology Scholar, 1993; National Merit Semifinalist, 1993.
- ✦ **Computer experience:** Macintosh, Windows, and Unix operating systems; Microsoft/Open Office; Overleaf; data analysis in Mathematica, Python, and IRAF; building and maintaining websites, wikis, and server filing systems; Adobe Photoshop; iDraw; KaleidaGraph; limited experience with BASIC, Fortran, GitHub, IDL, LabView, Maple, Mathcad, MS Project, Pascal, and Zemax.
- ✦ **Additional Training:** Univ. of Colorado Physics Department Machine Shop Technologies course, 1999; Basic Soaring (received solo wings in a TG-4A glider), 1994; Basic Combat Survival Training Course (PDS CODE: EER), 1994; Water Survival, Non-Parachute Course (PDS CODE: TB3), 1994; NAUI Openwater I SCUBA Certification, 1992.

**Selected Publications: see Appendix for full publication list***(née Sickafoose, married surname Gulbis)*

- Sickafoose, A.A.**, S. E. Levine, A. S. Bosh, M. J. Person, C. A. Zuluaga, B. Knieling, M. C. Lewis, and K. Schindler, Material Around the Centaur (2060) Chiron from the 2018 November 28 UT Stellar Occultation, *PSJ*, **4**(11), id. 221, 9 pp., 2023.
- Sickafoose, A.A.**, A.S. Bosh, J.P. Emery, M.J. Person, C.A. Zuluaga, F.B. Bianco, J.D. Ruprecht, and A.M. Zangari, Constraints on Material around (2060) Chiron from a Visible and Near-Infrared Stellar Occultation in 2011, *MNRAS*, **491**, 3643-3654, 2020.
- Sickafoose, A.A.**, A.S. Bosh S.E. Levine, C.A. Zuluaga, A. Genade, K. Schindler, T. Lister, and M.J. Person, A Stellar Occultation by Vanth, a satellite of (90482) Orcus, *Icarus*, **319**, 657-668, 2019.
- Erasmus, N., Mommert, M., D.E. Trilling, **A.A. Sickafoose**, C. Van Gend, and J.L. Hora, Characterization of Near-Earth Asteroids Using KMTNet-SAAO, *AJ*, **154**, article id. 162, 10 pp., 2017.
- Gulbis, A.A.S.**, J.P. Emery, M.J. Person, A.S. Bosh, C.A. Zuluaga, J.M. Pasachoff, and B.A. Babcock, Observations of a successive stellar occultation by Charon and graze by Pluto in 2011, *Icarus*, **246**, 226-236, 2015.
- Adams E.R., **A.A.S. Gulbis**, J.L. Elliot, S.D. Benecchi, M.W. Buie, E. Chiang, D.E. Trilling, and L.H. Wasserman, De-biased Populations of Kuiper Belt Objects from the Deep Ecliptic Survey, *AJ*, **148**, article id. 55, 17 pp., 2014.
- Person, M.J., A.S. Bosh, S.E. Levine, **A.A.S. Gulbis**, [and 39 coauthors], The 2011 June 23 Stellar Occultation by Pluto: Airborne and Ground Observations, *AJ*, **146**, article id. 83 (15 pp), 2013.
- Zalucha, A.M., and **A.A.S. Gulbis**, Comparison of a simple 2-D Pluto general circulation model with stellar occultation light curves and implications for atmospheric circulation, *JGR-Atmospheres*, **117**, doi:10.1029/2011JE003957, 2012.
- Gulbis, A.A.S.** [and 10 coauthors], First results from the MIT Optical Rapid Imaging System (MORIS): a stellar occultation by Pluto and a transit by exoplanet XO-2b, *PASP*, **123** (902), 461-469, 2011.
- Elliot, J.L., M.J. Person, C.A. Zuluaga, A.S. Bosh, E.R. Adams, T.C. Brothers, **A.A.S. Gulbis**, [and 35 coauthors], Size and Albedo of Kuiper Belt Objects 55636 from a Stellar Occultation, *Nature*, **465**, 897-900, 2010.
- Gulbis, A.A.S.**, J.L. Elliot, E.A. Adams, S.D. Benecchi, M.W. Buie, D.E. Trilling, L.W. Wasserman, Unbiased Inclination Distributions for Objects in the Kuiper Belt, *AJ*, **140**, 350-369, 2010.
- Person, M.J., J.L. Elliot, **A.A.S. Gulbis**, [and 16 coauthors], Waves in Pluto's Upper Atmosphere, *AJ*, **136**, 1510-1518, 2008.
- Elliot, J.L., M.J. Person, **A.A.S. Gulbis**, [and 17 coauthors], Changes in Pluto's Atmosphere: 1988-2006, *AJ*, **134**, 1-13, 2007.
- Gulbis, A.A.S.**, [and 12 coauthors], Charon's Radius and Atmospheric Constraints from Observations of a Stellar Occultation, *Nature*, **439**, 48-51, 2006.
- Elliot, J.L. S.D. Kern, K.B. Clancy, **A.A.S. Gulbis**, [and 7 coauthors], The Deep Ecliptic Survey: A Search for Kuiper Belt Objects and Centaurs II. Dynamical Classification, the Kuiper-Belt Plane, and the Core Population, *AJ*, **129**, 1117-1162, 2005.
- Colwell, J.E., **A.A.S. Gulbis**, M. Horányi, and S. Robertson, Dust Transport in Photoelectron Layers and the Formation of Dust Ponds on Eros, *Icarus*, **175**, 159-169, 2005
- Sickafoose, A.A.**, J.E. Colwell, M. Horányi, and S. Robertson, Experimental Levitation of Dust Grains in a Plasma Sheath, *JGR*, **107**(A11), 1408, doi:10.1029/2002JA009347, 2002.
- Sickafoose, A.A.**, J.E. Colwell, M. Horányi, and S. Robertson., Photoelectric Charging of Dust Particles in Vacuum, *PRL*, **84**, 6034-6037, 2000.

**Funding History**✦ **Awarded proposals:**

2023-2026, <b>Co-Investigator:</b> NASA SSO, "Understanding Asteroids by the Distribution of their Hydrated Minerals"; A. Rivkin P.I.	<b>\$640k</b>
2022-2025, <b>Principal Investigator:</b> NSF AAG, "Unraveling the mysteries of small-body ring systems through numerical modeling"	<b>\$465k</b>
2022-2026, <b>Co-Investigator:</b> NASA XRP, "Finding the next doomed worlds"; E. Adams P.I.	<b>\$705k</b>
2020-2024, <b>Principal Investigator:</b> NASA SSO, "Studying small-body atmospheres through stellar occultations"	<b>\$552k</b>
2020-2024, <b>Co-Investigator:</b> NASA SSO, "Outer Solar System Objects at Opposition"; A. Verbiscer P.I.	<b>\$373k</b>
2009-2019, <b>Principal Investigator:</b> (South Africa) NRF Rated researcher funding	<b>ZAR 40k (~\$3k)/year</b>
2019, <b>Principal Investigator:</b> (South Africa) NRF Equipment-Related Travel and Training	<b>ZAR 70k (~\$4.9k)</b>
2018, <b>Principal Investigator:</b> (South Africa) NRF Knowledge Interchange & Collaboration	<b>ZAR 20k (~\$1.5k)</b>
2015-2018, <b>Principal Investigator:</b> (South Africa) DST-NRF Professional Development Programme	<b>ZAR 315k (~\$23.2k)/year</b>
2015-2018, <b>Collaborator:</b> NASA SSO, "Occultation Studies of Small Bodies in the Outer Solar System"; A.S. Bosh P.I.	<b>\$693k</b>
2013-2016, <b>Collaborator:</b> NASA NEOO, "Reconnaissance Taxonomy of Faint NEOs"; A.S. Rivkin P.I.	<b>\$436k</b>
2013-2016, <b>Collaborator:</b> NSF Planetary Ast., "The Visible Spectral Properties of Trojans and NEOs"; A.S. Rivkin P.I.	<b>\$264k</b>

2013–2016, <b>Collaborator</b> : NSF Planetary Ast., “The compositions of outer Solar System icy surfaces from ultra-low resolution spectroscopy”; D.E. Trilling P.I.	<b>\$85.2k</b>
2010–2012, <b>Principal Investigator</b> : (South Africa) NRF RISA National Equipment Programme, “SHOC: Sutherland High-speed Optical Camera,” for ZAR 316k, plus SAAO matching funds to build a second, identical instrument	<b>ZAR 1M (~\$110k)</b>
2008–2010+NCEs, <b>Principal Investigator</b> : NASA Planetary Atmospheres, “Deciphering Pluto’s Atmosphere: Synthesis of Occultation Observations and Theoretical Models”	<b>\$213k</b>
2007–2013, <b>Co-Investigator</b> : NSF Planetary Ast., “Exploring the Kuiper Belt with the Magellan Telescopes”; M.J. Person P.I.	<b>\$567k</b>
2007–2010, <b>Co-Investigator</b> : NASA Planetary Ast., “Exploring the Outer Solar System with Stellar Occultations”; J.L. Elliot P.I.	<b>\$532k</b>
2007–2009, <b>Principal Investigator</b> : NASA Planetary Ast. Planetary Major Equipment, “Exploring the Outer Solar System with Stellar Occultations: Instrumentation”	<b>\$155.6k</b>
2006–2009, <b>Collaborator</b> : NASA Origins of Solar Systems, “Large-Telescope Photometry of Extra-Solar Planet Transits”; J.L. Elliot P.I.	<b>\$272k</b>
2005–2007, <b>Co-Investigator</b> : NSF Planetary Ast., REU supplements; J.L. Elliot P.I.	<b>~\$30k per year</b>
2004–2007, <b>Co-Investigator</b> : NSF Planetary Ast., “Exploring the Kuiper Belt with the Magellan Telescopes”; J.L. Elliot P.I.	<b>\$391k</b>
2000–2002, <b>Fellowship</b> : NASA Graduate Student Research Program, “Dust Dynamics in Photoelectron Layers Near Surfaces in Space”	<b>\$64k</b>

## Education, Service, and Public Outreach

<ul style="list-style-type: none"> <li>✦ <b>Postdoctoral supervision:</b> <ul style="list-style-type: none"> <li>◦ Nicolas Erasmus (SAAO postdoc 2015-2018)</li> <li>◦ Angela Zalucha (MIT postdoc 2010-2012)</li> </ul> </li> </ul>	
<ul style="list-style-type: none"> <li>✦ <b>Student supervision or co-supervision:</b> <ul style="list-style-type: none"> <li>◦ Anja Gende (UCT MSc 2018)</li> <li>◦ Angela Zalucha (PhD MIT 2010)</li> <li>◦ Julia Kane (MIT MSc 2006)</li> <li>◦ John Gardener (MIT UROP summer project 2004)</li> <li>◦ Rocco Coppejans (UCT MSc 2013)</li> <li>◦ Folkers Rojas (MIT undergraduate project 2009)</li> <li>◦ Emily Kramer (MIT UROP summer project 2006)</li> <li>◦ Heather McEwen (MIT BSc thesis 2004)</li> </ul> </li> </ul>	
✦ Guest speaker for Summer Science Program (SSP) at Purdue University	<b>2023</b>
✦ Speaker for SAAO open nights, Cape Town & Hermanus Astronomy Centres, Probus Club, U3A, George IEEE, and colloquia (Auckland Obs., Australian Ast. Obs., NRF, MIT, SAAO, Royal Society of the Cape, UKZN, U. Pretoria, UWC, etc.)	<b>2004–present</b>
✦ Reviewer for Nature, Science, A&A, AJ, ApJ, Icarus, JGR-Atmospheres, PSJ, Science, and conference proceedings	<b>2006–present</b>
✦ Member of the Science Organizing Committee for the 2023 Asteroids, Comets, Meteors; 2022 IAU FM8I 2011 MEARM II; and 2008 AAS Division of Planetary Sciences meetings	<b>2008–present</b>
✦ Reviewer for proposals to NASA FINESST, NLSI, PAST, OPR, and CDAP; Poland SONATA; NRF SRE and Thutuka	<b>2007–present</b>
✦ Member of the IRTF Telescope Allocation Committee	<b>2021–2022</b>
✦ Academic guest lecturer: MIT, UCT Engineering club, NASSP, UCT Astronomy, St. Cyprians, and Fessenden	<b>2005–2022</b>
✦ Member of Steering Committee for the SAAO/SALT Strategic Instrumentation Initiative and the Scientific Advisory committee for the African Initiative for Planetary and Space Science (AFIPS)	<b>2018–2020</b>
✦ Member of the Sutherland Telescope Users Committee (STUC)	<b>2011–2016</b>
✦ Member of the Sutherland Telescopes Time Assessment Committee (STAC)	<b>2012–2016</b>
✦ External reviewer for exams and undergraduate theses, Univ. of Pretoria Physics Dept. (PHY 353, 700, 706)	<b>2013–2015</b>
✦ Interviewee for BBC television program “Stargazing Live” and <i>New Horizons</i> podcast	<b>2012;2013</b>
✦ Donated asteroid discovery rights and hosted a naming competition for young South Africans	<b>2009–2010</b>
✦ Interviewee for BBC program “The Wonders of the Solar System: The Thin Blue Line”	<b>2009</b>
✦ Member of the International Year of Astronomy Local Organizing Committee at SAAO	<b>2008–2009</b>
✦ Speaker at the Iziko summer school symposium “Revealing the Mysteries of the Universe”	<b>2009</b>
✦ Member of NASA’s Management Operations Working Group (MOWG) for Planetary Ast., Planetary Atm., and NEO Obs.	<b>2007–2008</b>
✦ Reviewer for the 2007 World Book Encyclopedia entry for “Pluto”	<b>2006</b>
✦ Science Fair Judge: Peak to Peak High School (Boulder CO; 1 yr) and Coal Creek Elementary School (Boulder CO; 3 yrs)	<b>1999–2003</b>
✦ Graduate Student Representative: Faculty Search Committee (2001), Faculty Meetings (2000–2001), Comprehensive Exam Committee (1999–2000), Admissions Committee (1998–1999), and Concerns Committee (1997–1998)	<b>1997–2001</b>

## APPENDIX: Publications

## Refereed Journal Articles

(née Sickafoose, married surname Gulbis)

Submitted/Published

73. Erasmus, N., K. Rosie, C. van Gend, R. Pretorius, H. Gajjar, H. Worters, E. Loubser, W. Koorts, K. Titus, J. O'Connor, K. Matlala, **A. Sickafoose**, I. A. Steele, A. S. Piascik, S. D. Bates, C. J. Mottram, A. Ranjbar, S. Potter, S. Chandra, U. Geen, J. Crook-Mansour, S. Abiodun, M. Scarrott, and L. Higgs., Mookodi: a multi-purpose low-resolution spectrograph and multi-filter photometric imager for rapid follow-up observations of astronomical transient events, *JTAIS*, *submitted*, 2023
72. **Sickafoose, A.A.**, and M. C Lewis, Numerical Simulations of (10199) Chariklo's Rings with a Resonant Perturber, *PSJ*, *accepted*, 2024.
71. Domingue, D., J. Weirich, F. Chuang, **A. Sickafoose**, E. Palmer, and R. Gaskell, Topographic and Spectrophotometric Correlations within the Mare Ingenii Lunar Swirl Region: Evidence for a Highly Mobile Lunar Regolith, *PSJ*, **4**(12), id. 240, 24 pp., 2023.
70. **Sickafoose, A.A.**, S. E. Levine, A. S. Bosh, M. J. Person, C. A. Zuluaga, B. Knieling, M. C. Lewis, and K. Schindler, Material Around the Centaur (2060) Chiron from the 2018 November 28 UT Stellar Occultation, *PSJ*, **4**(11), id. 221, 9 pp., 2023.
69. Weirich, J. R., D. L. Domingue, F. C. Chuang, **A. A. Sickafoose**, M. D. Richardson, E. E. Palmer, and R. W. Gaskell, The Search for Topographic Correlations within the Reiner Gamma Swirl, *PSJ*, **4**(11), id. 212, 20 pp., 2023.
68. Rommel, F.L., and 199 coauthors including **A.A. Sickafoose**, "A large topographic feature on the surface of the trans-Neptunian object (307261) 2002 MS<sub>4</sub> measured from stellar occultations, *A&A*, **678**, id.A167, 25 pp., 2023.
67. Braga-Ribas, F., C. L. Pereira, B. Sicardy, J. L. Ortiz, J. Desmars, **A. Sickafoose**, M. Emilio, B. Morgado, G. Margoti, F. L. Rommel, J. I. B. Camargo, M. Assafin, R. Vieira-Martins, A. R. Gomes-Júnior, P. Santos-Sanz, N. Morales, M. Kretlow, J. Lecacheux, F. Colas, R. Boninsegna, O. Schreurs, J. L. Dauvergne, E. Fernandez, P. V. Heerden, H. González, D. Bihel, and F. Jankowsky, Constraints on (2060) Chiron's size, shape and surrounding material from November 2018 and September 2019 stellar occultations, *A&A*, **676**, A72, 2023.
66. Chuang, F.C., M.D. Richardson, J.R. Weirich, **A.A. Sickafoose**, and D.L. Domingue, Mapping Lunar Swirls with Machine Learning: The Application of Unsupervised and Supervised Image Classification Algorithms in Reiner Gamma and Mare Ingenii, *PSJ*, **3**(10), id.231, 13 pp., 2022.
65. Rivkin, A.S., J.P. Emery, E.S. Howell, T. Kareta, J.W. Noonan, M. Richardson, B.N.L. Sharkey, **A.A. Sickafoose**, L.M. Woodney, R.J. Cartwright, S. Lindsay, and L.T. Moore, The Nature of Low-Albedo Small Bodies from 3-mm Spectroscopy: One Group that Formed Within the Ammonia Snow Line and One that Formed Beyond It, *PSJ*, **3**(7), id.153, 34 pp., 2022.
64. Domingue, D., J. Weirich, F. Chuang, **A. Sickafoose**, and E. Palmer, Topographic Correlations within Lunar Swirls in Mare Ingenii, *GRL*, **49**(6), article id. e95285, 2022.
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