

# Dr. Katherine R. de Kleer

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<b>EDUCATION</b>	<b>Ph.D. Astrophysics</b> , University of California, Berkeley <b>Spring 2017</b> <i>Thesis</i> : “Extreme Worlds of the Outer Solar System: Dynamic Processes on Uranus & Io” <i>Advisor</i> : Prof. Imke de Pater
	<b>M.A. Astrophysics</b> , University of California, Berkeley <b>Spring 2013</b>
	<b>B.Sc. Mathematics</b> , Massachusetts Institute of Technology <b>Spring 2009</b>
	<b>B.Sc. Physics with Astronomy Minor</b> , Massachusetts Institute of Technology <b>Spring 2009</b> <i>Thesis</i> : “Photometry and Transit-Timing Analysis for Eleven Transiting Exoplanets” <i>Advisor</i> : Prof. Joshua Winn
<b>RESEARCH INTERESTS</b>	Broad interests in planetary astronomy, including the interiors, surfaces, and atmospheres of planets and satellites. Recent work has focused on the composition of ice giant atmospheres and on Io’s tidally-powered volcanism, based on ground-based infrared and millimeter telescope observations. Additional interests include planetary ring systems, geophysics of satellites and extrasolar planets, and astrobiology.
<b>RESEARCH POSITIONS</b>	<b>Heising-Simons Foundation 51 Pegasi b Postdoctoral Fellow</b> , Caltech <b>2017-present</b> <b>Visting Scholar</b> , Keck Observatory <b>June 2017</b> <b>NSF Graduate Research Fellow</b> , UC Berkeley <b>2013-2017</b> <b>Graduate Student Researcher</b> , UC Berkeley <b>2010; 2012-2013; 2016-2017</b> <b>Visiting Research Student</b> , Montana State University, Bozeman, Montana <b>Fall 2015; Summer 2016</b> <b>Visiting Research Student</b> , Max Planck Institute (MPE), Garching, Germany <b>Summer 2012</b> <b>Visiting Research Student</b> , Tel Aviv University, Tel Aviv, Israel <b>Summer &amp; Fall 2009</b> <b>Undergraduate Research Assistant (UROP Program)</b> , MIT <b>2008-2009</b> <b>NSF REU Research Student</b> , NASA Ames/SETI Institute <b>Summer 2007</b> <b>Undergraduate Research Assistant (UROP Program)</b> , MIT <b>Spring 2007</b> <b>NSF REU Research Student</b> , MIT Haystack Observatory <b>Summer 2006</b>
<b>SELECTED AWARDS &amp; HONORS</b>	<b>Outstanding Student Presentation Award</b> , JpGU-AGU Joint Meeting, Chiba, Japan <b>2017</b> <b>The Mary Elizabeth Uhl Prize for Outstanding Scholarly Achievement</b> , UC Berkeley <b>2017</b> <b>Heising-Simons Foundation 51 Pegasi b Postdoctoral Fellowship</b> <b>2017</b> <b>NASA Postdoctoral Program (NPP) Fellowship</b> (declined) <b>2017</b> <b>NSF Astronomy &amp; Astrophysics Postdoctoral Fellowship</b> (declined) <b>2017</b> <b>Hubble Postdoctoral Fellowship</b> (declined) <b>2017</b> <b>The Pierazzo International Student Travel Award</b> , Planetary Science Institute <b>2017</b> <b>The Robert J. Trumpler Graduate Student Excellence Award</b> , UC Berkeley <b>2016</b> <b>NSF Graduate Research Program Fellowship</b> <b>2013</b> <b>NASA Earth and Space Science Fellowship</b> (declined) <b>2013</b> <b>Outstanding Graduate Student Instructor</b> , UC Berkeley <b>2013</b>
<b>PI TELESCOPE PROGRAMS</b>	<b>The Atacama Large Millimeter Array (ALMA)</b> 1. <b>K. de Kleer</b> , I. de Pater, M. Gurwell, A. Moullet, B. Butler, R. Moreno, Cycle 4 (2016-17): 2016.1.00691.S (7.2 hours) <b>Hubble Space Telescope (HST)</b> 1. <b>K. de Kleer</b> & M. Brown, Cycle 25 (2018): GO-15425, STIS (10 orbits) <b>Keck Observatory</b> 1. <b>K. de Kleer</b> & M. Brown, Spr 2018: C235, HIRES (4×1/4 nights) <b>The Very Large Telescope (VLT)</b> 1. <b>K. de Kleer</b> & L. Fletcher, Spr 2018: 0101.C-0458, VISIR (7 hours) <b>Gemini Observatory</b> 7. <b>K. de Kleer</b> & I. de Pater, Spr 2017: GN-2017A-Q-53, NIRI+ALTAIR (long-term cadence program). 6. <b>K. de Kleer</b> & I. de Pater, Fall 2016: GN-2016B-Q-5, NIRI+ALTAIR (20 hours; cadence program). 5. <b>K. de Kleer</b> & I. de Pater, Spr 2016: GN-2016A-Q-34, NIRI+ALTAIR (20 hours; cadence program). 4. <b>K. de Kleer</b> & I. de Pater, Spr 2016: GN-2016A-Q-33, NIRI+ALTAIR (3 hours).

3. **K. de Kleer** & I. de Pater, Fall 2015: GN-2015B-FT-12, NIRI+ALTAIR (3.5 hours).
2. **K. de Kleer**, I. de Pater, A. Davies, Spr 2014: GN-2014A-Q-34, NIRI+ALTAIR (20 hours; cadence program).
1. **K. de Kleer**, I. de Pater, A. Davies, Fall 2013: GN-2013B-DD-3, NIRI+ALTAIR (3 hours; cadence program).

#### **NASA Infrared Telescope Facility (IRTF)**

2. **K. de Kleer**, I. de Pater, A. Davies, M. Ádámkóvics, J. Rathbun, J. Spencer, Spr 2014: 2014A032, NSFCam/CSHELL (6.7 hours over 20 nights)
1. **K. de Kleer**, I. de Pater, A. Davies, M. Ádámkóvics, Fall 2013: 2013B030, SpeX (6.7 hours over 4 nights).

#### **Combined Array for Research in Millimeter Astronomy (CARMA)**

4. **K. de Kleer**, I. de Pater, S. Luszcz-Cook, Fall 2013. A/B/C-arrays, 220 GHz (8 hours ToO).
3. **K. de Kleer**, I. de Pater, S. Luszcz-Cook, Fall 2013. B-array, 220 GHz (15 hours).
2. **K. de Kleer**, I. de Pater, S. Luszcz-Cook, Spr 2013. B-array, 220 GHz (15 hours Director's Time).
1. **K. de Kleer**, I. de Pater, S. Luszcz-Cook, Spr 2013. C-array, 220 GHz (28 hours).

#### **Lick Observatory**

2. **K. de Kleer**, I. de Pater, J. Tollefson, M. Wong, S. Luszcz-Cook, E. Gates, D. Gavel, Fall 2016. 2016B.S002, ShARCS/ShaneAO (cadence program).
1. **K. de Kleer** & I. de Pater, Fall 2015: 2015B-S015, ShARCS/ShaneAO (4 hours over 4 nights).

### **SELECTED CO-I TELESCOPE PROGRAMS**

#### **The James Webb Space Telescope**

1. PI's I. de Pater & T. Fouchet, Early Release Science: #1373 (28.9 hours)

#### **Hubble Space Telescope**

2. I. de Pater et al., Cycle 22: GO14045, WFC3/UVIS (2 orbits)
1. M. Wong et al., Cycle 23: GO14492, WFC3/UVIS (4 orbits)

#### **Keck Observatory**

- \* 10+ programs in 2010-2016 (P.I.'s: I. de Pater, A. Davies), NIRC2, NIRSPEC, OSIRIS.

#### **Large Binocular Telescope (LBT)**

- \* Multiple programs in 2014-2016 (P.I.'s: A. Conrad, D. Defrère). LBT Interferometer (LBTI): LMIR-cam, NOMIC; ALES.

#### **The Atacama Large Millimeter Array (ALMA)**

2. S. Luszcz-Cook et al. Cycle 4, Project 2016.1.00927.S.
1. P. Rojo et al. Cycle 3, Project 2015.1.00995.S.

#### **Very Large Array (VLA)**

1. I. de Pater et al. 2015A. Project 15A-119.

#### **NOEMA Interferometer**

1. L. Roth & A. Sanchez-Monge et al. 2017A. Project W16AA.

### **TEACHING, OUTREACH & LEADERSHIP**

**Lead Instructor**, Introductory Lab Physics, Patten University at San Quentin State Prison, San Quentin, CA. Position includes: syllabus creation and instruction for a college-level laboratory physics course taught to inmates at San Quentin prison; management of two instructors and two tutors; creation of lab experiments subject to prison regulations. **Fall 2016**

**Outreach Collaborator**, Guerilla Science. Collaborator on numerous large-scale science outreach events at schools, music festivals, and co-working spaces across California and New York. **2012-present**

*Selected Projects:*

Astronomy Observing, Oregon Eclipse Festival, OR	<b>2017</b>
Astronomy Observing, Symbiosis Music Festival, CA	<b>2017</b>
Intergalactic Travel Bureau, Mysteryland Music Festival, NY	<b>2016</b>
Fire Organ, Maker Faire, CA	<b>2015</b>
Enlightenment Party, The Embassy, CA	<b>2013</b>
Interplanetary Travel Bureau, Cesar Chavez Education Center, CA	<b>2012</b>

#### **Graduate Student Instructor**, UC Berkeley

A121 Radio Astronomy Laboratory	<b>Spring 2015</b>
C162 The Solar System	<b>Fall 2012</b>
A122 Infrared and Optical Astronomy Laboratory	<b>Fall 2010</b>

**Instructor & Curriculum Designer**, Five Stars Mentoring Program, Girls Inc., Oakland, CA. Hands-on astronomy course for underprivileged middle and high school girls. **Fall 2013**

**Lead Field Staff (full-time)**, Pacific Quest, Na'alehu, HI. Field instructor for at-risk young adults in wilderness therapy setting. Position included: management of two staff and 15 young adults; coordination with therapists to carry out individualized therapy plans for students; directing students in running an organic farm. **2011**

**Instructor (full-time)**, Astrocamp, Guided Discoveries, Idyllwild, CA. Physics and astronomy outdoor education camp for middle school students. **Spring 2010**

**Undergraduate Teaching Assistant, MIT**  
12.409 Hands-On Astronomy **2008-2009**

**Co-creator and Co-teacher**, "Hands-on Astronomy", MIT High School Studies Program. Extracurricular weekly class for local high school students. **2008**

**Public Talks & Star Parties**, various locations **2005-present**

**RESEARCH ADVISING** Clayton Cantrall, Undergraduate Student, UC Berkeley **2015-2017**  
*Co-advised with Imke de Pater*

Sara Gutierrez, Undergraduate Student, UC Berkeley **2014-present**  
*Co-advised with Imke de Pater*

Thomas Fitzpatrick, Undergraduate Student, UC Berkeley **2014-present**  
*Co-advised with Imke de Pater*

**PUBLICITY** **Press Release**, UC Berkeley/Keck/Gemini/AAS DPS, "Long-term, hi-res tracking of eruptions on Jupiter's moon Io" **Oct 2016**

**Press Conference**, AAS DPS Meeting, "Long-term, hi-res tracking of Io's eruptions" **Oct 2016**

**GeminiFocus Featured Article**, "Gemini captures extreme eruption on Io" **Oct 2014**

**Image Release**, Gemini Observatory "Extreme volcanism: Image captures one of the brightest volcanoes ever seen in the Solar System" **Aug 2014**

**Press Release**, UC Berkeley "A hellacious two weeks on Jupiter's moon Io" **Aug 2014**

**PROFESSIONAL ACTIVITIES & SERVICE** Referee for *The Astronomical Journal* **2018-present**  
**Protocols Committee**, Caltech GPS Division **2017-2018**

**Keck Expert**, Solar System Panel, Keck-JWST Meeting **Sep 2016**

**Discipline Leader**, Satellites Working Group, International Outer Planet Watch **2016-present**

**Steering Committee Member**, International Outer Planet Watch **2016-present**

**Mentor**, Graduate-Undergraduate Mentoring Program, UC Berkeley **2016-present**

**External Grant Reviewer**, NASA **2016-present**

**Mentor**, Society for Women in the Physical Sciences, UC Berkeley **2016-present**

**Public Liaison**, Astronomy Department, UC Berkeley **2015-present**

Referee for *Icarus* **2015-present**

**Graduate Assembly Delegate**, Astronomy Department, UC Berkeley **2013-2015**

**Residential Advisor**, Dept of Residential Life, MIT **2008**

**REFEREED PUBLICATIONS** *\*student advised*

23. Wong, M.H., Tollefson, J., Hsu, A.I., de Pater, I., Simon, A.A., Hueso, R., Sánchez-Lavega, A., Sromovsky, L., Fry, P., Luszcz-Cook, S., Hammel, H., Delcroix, M., **de Kleer, K.**, Orton, G.S., Baranec, C. A new dark vortex on Neptune. *AJ*, *in press*.

22. Drummond, J., Merline, W., Carry, B., Conrad, A., Reddy, V., Tambllyn, P., Chapman, C., Enke, B., de Pater, I., **de Kleer, K.**, Dumas, C., Christou, J. The triaxial ellipsoid size, density, and rotational pole of asteroid (16) Psyche from Keck and Gemini AO observations 2004-2015. *Icarus*, *in review*.

21. \*Cantrall, C., **de Kleer, K.**, de Pater, I., Williams, D., Davies, A.G., Nelson, D. Variability and geologic associations of volcanic activity on Io in 2001-2016. *Icarus*, *in review*.

20. **de Kleer, K.** and de Pater, I. Our solar system - A panorama. In *Handbook of Exoplanets*, *in press*.

19. de Pater, I., **de Kleer, K.**, Davies, A., Ádámkóvics, M. Three decades of Loki Patera observations. *Icarus* **297**, 265-281 (2017).

18. Hueso, R., de Pater, I., Simon, A., Sánchez-Lavega, A., Delcroix, M., Wong, M.H., Tollefson, J.W., Baranec, C., **de Kleer, K.**, and 26 co-authors. Neptune long-lived atmospheric features in 2013-2015 from small (28 cm) and large (10 m) telescopes. *Icarus* **295** 89-109 (2017).
17. Crossfield, I.J.M., Ciardi, D.R., Isaacson H., Howard, A.W., Petigura, E.A., Weiss, L.M., Fulton, B.J., Sinukoff, E., Schlieder, J.E., Mawet, D., Ruane, G., de Pater, I., **de Kleer, K.**, and 11 co-authors. Two small transiting planets and a possible third body orbiting HD 106315. *AJ* **153**, 255-262 (2017).
16. **de Kleer, K.**, Skrutskie, M., Leisenring, J., Davies, A.G., Conrad, A., de Pater, I., Resnick, A., Bailey, V., Defrère, D., Hinz, P., Skemer, A., Spalding, E., Vaz, A., Veillet, C., Woodward, C.E. Multi-phase volcanic resurfacing at Loki Patera on Io. *Nature*, **545**, 199-202 (2017).
15. **de Kleer, K.** and de Pater, I. Io's Loki Patera: Modeling of Three Brightening Events in 2013-2016. *Icarus* 289, 181-198 (2017).
14. M. Shepard, J. Richardson, P. Taylor, L. Rodrigues-Ford, A. Conrad, I. de Pater, M. **Ádámkóvics, K. de Kleer**, and 14 co-authors. Radar observations and shape model of asteroid 16 Psyche. *Icarus*, 281, 388 (2017).
13. **de Kleer, K.** and de Pater, I. Spatial distribution of Io's volcanic activity from near-IR adaptive optics observations on 100 nights in 2013-2015. *Icarus*, 280, 405 (2016).
12. **de Kleer, K.** and de Pater, I. Time variability of Io's volcanic activity from near-IR adaptive optics observations on 100 nights in 2013-2015. *Icarus*, 280, 378 (2016).
11. de Pater, I., Laver, C., Davies, A.G., **de Kleer, K.**, Williams, D.A., Howell, R.R., Rathbun, J.A., Spencer, J.R. Io: Eruptions at Pillan, and the time evolution of Pele and Pillan from 1996 to 2016. *Icarus* 264, 198 (2016).
10. Luszcz-Cook, S., **de Kleer, K.**, de Pater, I., **Ádámkóvics, M.**, Hammel, H.B. Retrieving Neptune's aerosol properties from Keck OSIRIS Observations. I. Dark Regions. *Icarus*, 276, 52 (2016).
9. Conrad, A., **de Kleer, K.**, Leisenring, J., La Camera, A., and 16 co-authors. Spatially-resolved M-band emission from Io's Loki Patera – Fizeau imaging at the 22.8 meter LBT. *AJ*, 149, 175 (2015).
8. **de Kleer, K.**, Luszcz-Cook, S., de Pater, I., **Ádámkóvics, M.**, Hammel, H. Clouds and aerosols on Uranus: Radiative transfer modeling of spatially-resolved near-infrared Keck spectra. *Icarus* 256, 120 (2015).
7. Crossfield, I., Petigura, E., Schlieder, J.E., Howard, A.W., Fulton, B.J., Aller, K.M., Ciardi, D.R., Lépine, S., Barclay, T., de Pater, I., **de Kleer, K.**, Quintana, E.V., and 15 co-authors. A nearby M star with three transiting super-Earths discovered by K2. *ApJ* 804, 10 (2015).
6. **de Kleer, K.**, de Pater I., Davies, A., **Ádámkóvics, M.** Near-infrared monitoring of Io & detection of a violent outburst in August 2013. *Icarus* 242, 352 (2014).
5. **de Kleer, K.**, de Pater, I., **Ádámkóvics, M.**, Hammel, H. Near-Infrared Spectra of the Uranian Ring System. *Icarus* 226, 1038 (2013).
4. Hicken, M., Challis, P., Kierschner, R.P., Rest, A., Cramer, C.E., Wood-Vasey, W.M., Bakos, Gaspar, Berlind, Perry., Brown, W.R., Caldwell, N., Calkins, M., Currie, T., **de Kleer, K.**, and 26 co-authors. CfA4: Light Curves for 94 Type Ia Supernovae. *ApJ Supplement* 200, 12 (2012).
3. de Pater, I., Wong, M.H., **de Kleer, K.**, Hammel, H., **Ádámkóvics, M.**, Conrad, A. Keck adaptive optics images of Jupiter's north polar cap and Northern Red Oval, *Icarus* 213, 559 (2011).
2. Tripathi, A., Winn, J.N., Johnson, J.A., Howard, A.W., Halverson, S., Marcy, G.W., Holman, M.J., **de Kleer, K.**, Carter, J.A., Esquerdo, G.A., Everett, M.E., Cabrera, N.E. A Prograde, Low-inclination Orbit for the very hot Jupiter WASP-3b. *ApJ* 715, 421 (2010).
1. Jenniskens, P., **de Kleer, K.**, Vaubaillon, J., Trigo-Rodríguez, J.M., Madiedo, J.M., and 9 co-authors. Leonids 2006 Observations of the Tail of Trails. *Icarus* 196, 171 (2008).
2. Leisenring, J.M., Hinz, P.M., Skrutskie, M., Skemer, A., Woodward, C.E., Veillet, C., Arcidiacono, C., Bailey, V., Bertero, M., Boccacci, P., Conrad, A., **de Kleer, K.**, de Pater, I., and 10 co-authors. Fizeau interferometric imaging of Io volcanism with LBTI/LMIRcam. *SPIE* 9146, 91462S (2014).
1. Lonsdale, C.J., **de Kleer, K.**, Diamond, P.J., Thrall, H., Lonsdale, C.J., Smith, H.E. OH emission and absorption associated with supernovae in Arp 220. *IAU Symposium*, 242, 432 (2007).

## SEMINARS & COLLOQUIA

- UCLA, EPSS Colloquium:** *The volcanism, atmosphere and tidal heating of Io* (November 7, 2017)
- Gordon and Betty Moore Foundation,** Palo Alto, Evenings with Astronomers: *Exploring the outer solar system's dynamic moons* (September 13, 2017)
- Seattle Yacht Club,** Evenings with Astronomers: *Exploring the outer solar system's dynamic moons* (September 12, 2017)
- Heising-Simons Foundation,** lunch talk: *Geological activity on Solar System worlds* (August 15, 2017)
- Lick Observatory,** Music of the Spheres public lecture: *Geological activity in the Solar System* (August 12, 2017)
- Keck Observatory,** Lunch Talk: *Volcanic activity on Jupiter's moon Io* (June 27, 2017)
- UC Santa Cruz,** Planetary Lunch Seminar: *The volcanism, atmosphere, and tidal heating of Io* (April 27, 2017)
- MIT,** Special Seminar: *Planetary satellites in context: Io and the jovian system* (April 4, 2017)
- Keck Observatory,** Astronomy Talk public lecture: *Geological activity in the Solar System: New discoveries and unsolved mysteries* (January 5, 2017)
- NASA JPL,** Planetary Science Seminar: *The volcanism, atmosphere, and tidal heating of Io* (May 9, 2016)
- California Institute of Technology,** Planetary Science Seminar: *The Volcanism, atmosphere, and tidal heating of Io* (May 3, 2016)
- Montana State University,** Physics Department Colloquium: *Understanding tidal heating through observations of Io's extreme volcanic activity* (Apr 22, 2016)
- Johns Hopkins University Applied Physics Lab,** Colloquium: *The Volcanism, atmosphere, and tidal heating of Io: A multi-year observing campaign* (Apr 8, 2016)
- NASA Goddard Space Flight Center,** Solar System Exploration Seminar: *Volcanic activity on Io: Recent observations and implications for tidal heating* (Apr 6, 2016)
- American Museum of Natural History,** Astrophysics Department Colloquium: *The Volcanism, atmosphere, and tidal heating of Io: A multi-year observing campaign* (Apr 5, 2016)
- MIT,** Planetary Lunch Colloquium: *The Volcanism, atmosphere, and tidal heating of Io: A multi-year observing campaign* (Mar 29, 2016)
- Harvard Center for Astrophysics,** Small-Scale Phenomena Seminar: *Volcanism and tidal heating on Io: Results from new AO observations* (Mar 28, 2016)
- Montana State University,** Earth Science Department Colloquium: *The extreme volcanism and dynamic atmosphere of Jupiter's moon Io* (Mar 3, 2016)
- UC Berkeley,** Astronomy Department Lunch Talk: *Volcanic activity on Io in 2013-2015* (Jan 28, 2016)
- Steward Observatory, The University of Arizona,** Seminar: *Near-infrared monitoring of Io and detection of three volcanic outbursts* (Mar 2015)
- UC Berkeley,** Astronomy Department Grad Student–Postdoc Seminar: *Atmospheres and volcanism in the Solar System: Near-infrared spectroscopy of Io and Uranus* (Nov 2014)
- UC Berkeley,** Center For Integrated Planetary Sciences Seminar. *Connecting Io's volcanic activity to the plasma torus: Near-infrared observations during the Sprint-A/EXCEED Mission* (Apr 2014)

## CONFERENCE & WORKSHOP PRESENTATIONS

- de Kleer, K., de Pater, I.** *Io's volcanoes at high spatial, spectral, and temporal resolution from ground-based observations*, 49th AAS DPS Meeting, Provo, UT, Oral Presentation 407.03 (Oct 2017)
- (invited) de Kleer, K.** *Observing the Solar System's satellites with the James Webb Space Telescope*, JWST Solar System Workshop, Space Telescope Science Institute, Baltimore, MD, Oral Presentation (Nov 2017)
- (invited) de Kleer, K.** *Observing Io's surface with JWST*, Oort Workshop, Leiden, The Netherlands, Oral Presentation (May 2017)
- (invited) de Kleer, K., Skrutskie, M., Leisenring, J., Davies, A.G., Resnick, A., Conrad, A., de Pater, I., Hinz, P., Defrère, Veillet, C.** *Resolving Io's volcanoes from a mutual event observation at the Large Binocular Telescope*. AGU Fall Meeting, San Francisco, CA, Oral Presentation P54A-04 (Dec 2016)
- de Kleer, K., de Pater, I., Yoneda, M.** *Io's volcanic activity in 2013-2016 and comparison with extended sodium cloud variability*. AGU Fall Meeting, San Francisco, CA, Oral Presentation P21E-04 (Dec 2016)

- de Kleer, K.**, de Pater, I. *The volcanism and tidal heating of Io*. Keck Science Meeting, Pasadena, CA, Oral Presentation (Sep 2016)
- de Kleer, K.**, Skrutskie, M., Leisenring, J., de Pater, I., Davies, A.G., Conrad, A., Resnick, A.C., Hinz, P., Defrère, D., Veillet, C. *Time-evolution and thermal mapping of Io's Loki Patera at high resolution*. 48th AAS DPS/11th EPSC Joint Meeting, Pasadena, CA, Oral Presentation 517.12 (Oct 2016)
- de Kleer, K.**, de Pater, I. *Two new brightening events at Io's Loki Patera*. AGU Fall Meeting, San Francisco, CA, Poster Presentation P31C-2074 (Dec 2015)
- de Kleer, K.**, de Pater, I. *The spatial distribution of volcanic events on Io in 2013-2015*. 47th AAS DPS Meeting, National Harbor, MD, Oral Presentation 405.04 (Nov 2015)
- de Kleer, K.**, de Pater, I. *Investigating variability in Io's volcanic activity and surface frosts: Results from 2013-2015*. ESO Planets Workshop, Santiago, Chile, Oral Presentation (Mar 2015)
- de Kleer, K.**, de Pater, I., Davies, A.G., Ádámkóvics, M. *Io's volcanic activity from near-infrared observations during the EXCEED mission*. AGU Fall Meeting, San Francisco, CA, Oral Presentation P13E-02 (Dec 2014)
- de Kleer, K.**, de Pater, I., Fitzpatrick, T. *A timeline of volcanic activity on Io in 2013-14 with near-infrared surface maps*. 46th AAS DPS Meeting, Tucson, AZ, Poster Presentation 418.13 (Oct 2014)
- de Kleer, K.**, de Pater, I., Davies, A.G., Ádámkóvics, M., Ciardi, D. *Three rare volcanic outbursts on Io in August 2013*. 48th ESLAB Symposium, Noordwijk, The Netherlands, Oral Presentation (Jun 2014)
- de Kleer, K.**, de Pater, I., Ádámkóvics, M. *Infrared observations of SO emission from Io's atmosphere during eclipse*. AGU Fall Meeting, San Francisco, CA, Poster Presentation P43A-2003 (Dec 2013)
- de Kleer, K.**, de Pater, I., Davies, A.G., Luszcz-Cook, S., Ádámkóvics, M. *Monitoring Io in the near-infrared*. Io Boulder Workshop, Boulder, CO, Oral Presentation (Oct 2013)
- de Kleer, K.**, de Pater, I., Luszcz-Cook, S., Ádámkóvics, M., Hammel, H., Fry, P. *Clouds, hazes, and rings: Keck observations of Uranus*. 45th AAS DPS Meeting, Denver, CO, Poster Presentation 312.19 (Oct 2013).
- de Kleer, K.**, de Pater, I., Hammel, H., Ádámkóvics, M., Luszcz-Cook, S. *Keck observations of the Uranian atmosphere and rings*. 42nd AAS DPS Meeting, Pasadena, CA Poster Presentation 11.32 (Oct 2010).
- de Kleer, K.**, Lonsdale, C.J., Diamond, P.J., Lonsdale, C.J., Smith, G., Thrall, H. *Time variation in OH megamaser emission and absorption toward radio supernovae in Arp 220*. 209th AAS/AAPT Joint Meeting, Seattle, WA, Poster Presentation 149.19 (Jan 2007).