Kathryn Steakley

Department of Astronomy New Mexico State University (575) 646 - 4834PO Box 30001, MSC 4500 steakley@nmsu.edu Las Cruces, NM 88003 http://astronomy.nmsu.edu/steakley **EDUCATION** Ph.D., Astronomy (Expected 2018), New Mexico State University, 2018 Thesis: Impact Heating of the Early Martian Climate Advisor: Dr. Jim Murphy B.S., Physics, Astronomy, University of Washington, 2012 RESEARCH NASA ASTAR Fellow, New Mexico State University Sep 2015 - Present EXPERIENCE Investigating greenhouse warming by impacts on early Mars using a general circulation model Advisor: Dr. Jim Murphy Graduate Assistant, New Mexico State University Aug 2012 - Sep 2015 Characterized meteorological signatures of convective vortices at Gale Crater Advisor: Dr. Jim Murphy **REU Intern**, SETI Institute June - Aug 2012 Analyzed meteor shower activity using network of surveillance cameras, discovered new meteor shower: February epsilon Virginids (IAU #506) Advisor: Dr. Peter Jenniskens **PUBLICATIONS** "Field Measurements of Terrestrial and Martian Dust Devils", Murphy, J. Steakley, K., Balme, M., et al. 2016, Space Science Reviews, 203, 39 doi:10.1007/s11214-016-0283-y "A year of convective vortex activity at Gale Crater", Steakley, K., Murphy, J. 2016, Icarus, 278, p. 180-193, doi:10.1016/j.icarus.2016.06.010 "Discovery of the February epsilon Virginids (FEV, IAU #506)", Steakley, K., Jenniskens, P. 2013, WGN, Journal of the International Meteor Organization, 41, 109 PRESENTED Talk: "Revisiting the Impact Heating Hypothesis for Early Mars with a 3D GCM" 4th International Early Mars Conference, Flagstaff AZ WORK Oct 2017 Poster: "Exploring post-impact climate conditions on early Mars with the Ames GCM" 6th International Workshop on the Mars Atmosphere: Modelling and Observations, Granada, Spain Jan 2017 Poster: "Investigating post-impact climate scenarios for early Mars with a 3D GCM" American Geophysical Union Fall Meeting, San Francisco CA Dec 2016 Poster: "Post-impact climate conditions on early Mars: preliminary results from GCM simulations" 48th AAS Division of Planetary Sciences Meeting, Pasadena CA Oct 2016 Invited Talk: "Detection of thermal convection vortices in Gale Crater, Mars, with Mars Science Laboratory" Int'l Space Science Institute Workshop on Dust Devils, Bern, Switzerland Feb 2015

	Talk: "Investigating Dust-less Devils at Gale Crater" 46th AAS Division of Planetary Sciences Meeting, Tucson AZ	Nov 2014
	Talk: "Investigating Dust(less) Devils at Gale Crater, Mars" 30th Annual New Mexico Symposium, Socorro NM	Nov 2014
	<i>Poster</i> : "Convective Vortices and Seasonal Variations in the RE 8th International Conference on Mars, Pasadena CA	EMS Pressure Data" Jul 2014
	Poster: "Discovery of the February Epsilon Virginids" 221st American Astronomical Society Meeting, Longbeach CA	Jan 2013
	<i>Talk</i> : "Meteor Showers of the February Sky" SETI Institute, Mountain View, CA	Aug 2012
AWARDS AND HONORS	Sky Safari Recognition for Outstanding Outreach Participation NASA Office of Education and MUREP Advanced STEM Traini TAR) Fellowship Outstanding Graduate Assistantship Award, New Mexico State New Mexico Space Grant Consortium Graduate Research Fellow Chambliss Astronomy Student Achievement Hon. Mention, AA	2015 University 2014, 2015 vship 2014
TEACHING EXPERIENCE	Graduate Teaching Assistant New Mexico State University Prepared and ran lab classes, graded assignments and tests, and Astronomy 105: The Planets Astronomy 305: The Search for Life in the Universe	Aug 2013 - May 2015 l gave guest lectures
	Head Teaching Assistant New Mexico State University	Aug - Dec 2014
	Taught labs to new graduate students, organized and ran weekl events, assisted in development of lab manuals and keys	y campus observatory
	Taught labs to new graduate students, organized and ran weekl	Sep 2010 - Jun 2012
OUTREACH AND SERVICE	 Taught labs to new graduate students, organized and ran weekl events, assisted in development of lab manuals and keys World Wide Telescope Intern 826 Seattle Tutoring Center Incorporated World Wide Telescope, a virtual telescope computering programs for children from Sep - Dec 2010. 	Sep 2010 - Jun 2012

Tombaugh Elementary School Science Fair	Feb 2016
Alameda Elementary School Career Day	Nov 2015
Sierra Middle School Visit to Tombaugh Observatory	Oct 2015
Challenger Learning Center Grand Opening	Sep 2015
PlutoPalooza Family Astronomy Day at Branigan Cultural Center	June 2015
East Picacho Elementary Enrich the Kids Day	June 2015
Manta Vista Elementary School Star Night	May 2015
Monte Vista Elementary School Star Night	May 2015
Alameda Elementary Family Literacy, Math, and Science Night	Apr 2015
Highland Elementary Math and Science Night	Mar 2015
Sierra Middle School Visit Tombaugh Observatory	Nov 2014
Columbia Elementary Math and Science Night	Apr 2014
Vista Middle School Math and Science Night	Feb 2014
North Valley Elementary Science Night	Jan 2014
Elementary School Visit to Tombaugh Observatory	Sep 2013
Liemoniar, sensor , his of remonagin obbor haver,	2010 - 2010

Community Outreach

New Mexico State University Campus Observatory Events	Aug 2013 - Present
Sky Safari at Tombaugh Observatory	May 2015
Solar Telescope Viewing at Farmer's Market	Jan 2015
Sky Safari at Tombaugh Observatory	Dec 2014
Sky Safari at Tombaugh Observatory	Sep 2014
Sky Safari at Tombaugh Observatory	Dec 2013
Curiosity Landing Party at NASA Ames	Aug 2012
Theodor Jacobsen Observatory Open House	Apr 2012
Volunteering	
221st American Astronomical Society Meeting Volunteer	Jan 2013

221st American Astronomical Society Meeting Volumeet	Jan 2015
826 Seattle World Wide Telescope Volunteer	Dec 2010 - Jun 2012
University of Washington Planetarium Show Developer	Jan - Mar 2011