

Kelsey B. Prissel

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EDUCATION **Washington University in St. Louis, MO**
Ph.D., Earth and Planetary Science, *in progress*
M.A., Earth and Planetary Science, May 2016

Brown University, Providence, RI
Sc.B., Geology-Chemistry, May 2014
University Honors, Sigma Xi
Thesis Topic: "Melting Mercury: phase equilibria of an ultramafic magma at low oxygen fugacity," Advisor: Stephen W. Parman

ACADEMIC AWARDS **NASA Earth and Space Sciences Fellowship**, 2017 - present.

Roger B. Chaffee Graduate Fellowship, 2014 - 2017.
McDonnell Center for the Space Sciences, Washington University in St. Louis

Brown University Department of Geological Sciences Awards
Senior Award for Academics and Research, May 2014
Sarah LaMendola Undergraduate Research Award, May 2013

AGU Outstanding Student Paper Award, Planetary section, 2012

ACADEMIC EXPERIENCE **Washington University in St. Louis, MO**
Graduate Student Teaching Experiences 2014 - present
CIRTL Scholar, certification completed Spring 2018.
Preparation in Pedagogy, program completed Fall 2017.
EPSc 352: Earth Materials, Graduate Student Instructor, Fall 2017.
EPSc 441: Introduction to Geochemistry, Substitute Lecturer, Fall 2015 and 2016.

Brown University, Providence, RI
Teaching Assistant and Tutor 2011 - 2013
GEOL 1370: Environmental Geochemistry, Fall 2013.
GEOL 0050: Introductory Geology, Spring 2013.
MATH 0090, MATH 0100: Introductory Calculus, 2011-2013.

Lunar and Planetary Institute, Houston, TX
Summer Research Intern June - August, 2013

PUBLICATIONS **KB Prissel**, MJ Krawczynski, NX Nie, N Dauphas, H Couvy, MY Hu, EE Alp, M Roskosz, Effects of Olivine Crystallization and Melt Titanium Composition on Iron Isotopic Fractionation in Basalts, *Geochimica et Cosmochimica Acta*, submitted.

KB Williams, CRM Jackson, LC Cheek, KL Donaldson-Hanna, SW Parman, CM Pieters, MD Dyar, TC Prissel (2016) [Reflectance Spectroscopy of Chromium-bearing Spinel with Application to Recent Orbital Data from the Moon](#), *American Mineralogist*, 101 (3), 726-734.

B Fegley Jr., NS Jacobson, **KB Williams**, JMC Plane, L Schaefer, K Lodders (2016) [Solubility of Rock in Steam Atmospheres of Planets](#), *Astrophysical Journal*, 824 (2),

103. Washington University in St. Louis media feature.

CRM Jackson, LC Cheek, **KB Williams**, K Donaldson-Hanna, CM Pieters, SW Parman, RF Cooper, MD Dyar, M Nelms, MR Salvatore (2014) [Visible-Infrared Spectral Properties of Iron-bearing Aluminate Spinel Under Lunar-like Redox Conditions](#), *American Mineralogist*, 99 (10), 1821-1833.

**SELECTED
ABSTRACTS**

*Poster **Oral Presentation

KB Prissel*, MJ Krawczynski, N Dauphas, NX Nie (2018), Evaporative Iron Loss During One-Atmosphere Gas-Mixing Experiments, Sixteenth International Symposium on Experimental Mineralogy, Petrology, and Geochemistry.

KB Williams**, MJ Krawczynski, JA Van Orman (2016), Two-Oxide Disequilibrium: A New Geospeedometer Based on Diffusion in Ilmenite, AGU Fall Meeting, V13F-08.

KB Williams**, MJ Krawczynski, NX Nie, N Dauphas, H Couvy, MY Hu, EE Alp (2016), The Role of Differentiation Processes in Mare Basalt Iron Isotope Signatures, LPSC 47, 2779.

SW Parman**, **KB Williams**, HP O'Brien, S Wang, TC Prissel, EM Parmentier, PC Hess, JW Head (2015), Phase Equilibria Constraints on Mercury Melting Conditions, LPSC 46, 2345.

KB Williams**, Y Sonzogni, AH Treiman (2014), Amphibole in the Tissint Martian Meteorite: Composition and Implication for Volatile Content of Parental Magma, LPSC 45, 1435.

KB Williams*, CRM Jackson, LC Cheek, TC Prissel, SW Parman, CM Pieters (2012), The Effect of Cr content on the Reflectance Properties of Mg-Spinel, AGU Fall Meeting, P43A-1905.

**LEADERSHIP,
OUTREACH,
SERVICE**

Referee, *Geochimica et Cosmochimica Acta*

Executive Secretary, NASA Solar System Workings, Emerging Worlds

ExMASS Science Advisor, Lunar and Planetary Institute 2016 - present

Washington University in St. Louis, Graduate Student President (2016 - present), Graduate Student Peer Mentor (2016 - present), Prospective Weekend coordinator (2015 - 2017), Research as Art coordinator (2014 - 2016)

Letters to a Pre-Scientist, Classroom coordinator and pen pal 2015 - present

K-12 Guest Speaker, Skype-a-Scientist participant, lessons on topics including mineralogy, volcanology, lunar science, and careers in planetary science

Brown University Alumni Association, Admissions Interviewer 2014 - present

Brown University Office of Residential Life, Residential Counselor 2011 - 2014

Brown University Athletics Department 2010 - 2014
NCAA Division I varsity softball team captain and peer advisor, Student Athlete Advisory Committee, RI elementary school classroom volunteer

Brown University

Kappa Delta Sorority, Women in Science and Engineering, Geology Department Undergraduate Group, Eco-Reps, Athletes in Action