

Ari H. D. Koepfel

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EDUCATION

NORTHERN ARIZONA UNIVERSITY, Flagstaff, AZ	◦Ph.D. Astronomy and Planetary Science	IN PROGRESS
THE CITY COLLEGE OF NEW YORK, New York, NY	◦M.S. Geology	2018
Thesis Topic: <i>Differentiation in Impact Melt Sheets on Mars</i>		
DARTMOUTH COLLEGE, Hanover, NH	◦B.A. Engineering Physics	2015
<i>COMPUTATION:</i> C, Matlab, IRAF/PyRAF, SAOImage DS9, ERDAS Imagine, ENVI, ArcGIS, MELTS		
<i>SPANISH LANGUAGE:</i> Conversational		

RESEARCH EXPERIENCE

NORTHERN ARIZONA UNIVERSITY, Dept. of Physics and Astronomy, Dr. Edwards Lab		2018-PRESENT
<i>Graduate Research Assistant – Reference Contact: christopher.edwards@nau.edu</i>		
THE CITY COLLEGE OF NEW YORK, Dept. of Earth and Atmospheric Sciences, Dr. Black Lab		2016-2018
<i>Graduate Research Assistant – Reference Contact: bblack@ccny.cuny.edu</i>		
USGS ASTROGEOLOGY SCIENCE CENTER, Flagstaff, AZ, Gale Crater, Mars mapping.		2017
<i>Graduate Research Assistant – Reference Contact: ledgar@usgs.gov</i>		
DARTMOUTH COLLEGE, Optical imaging of supernova remnants, Dr. Fesen Lab		2014-2015
<i>Research Assistant – Reference Contact: robert.a.fesen@dartmouth.edu</i>		
STANFORD LAW SCHOOL, Steyer-Taylor Center for Energy Policy and Finance, Stanford, CA		2013
<i>Research Assistant to Dan Reicher - Reference Contact: dreicher@stanford.edu</i>		

SCIENTIFIC FIELD EXPERIENCE

SUDBURY FIELD CAMP, Sudbury, ON, Canada, Impact structure study and outcrop mapping.		2017
NASA Solar System Exploration Research Virtual Institute (SSERVI)		
THE CITY COLLEGE OF NEW YORK, Northeast, USA, Mapping and sampling CAMP basalt flows.		2016-2017
DARTMOUTH ENVIRONMENTAL STUDIES FOREIGN STUDY PROGRAM, South Africa and Namibia		2014
Survey of ecological research and conservation and development projects.		

TEACHING EXPERIENCE AND OUTREACH

New York City Science and Engineering Fair, Judge		2017 & 2018
ESS Modeling/Databases & Geomorphology, Teaching Assistant, THE CITY COLLEGE OF NEW YORK		2016-2017
Introduction to Earth Systems Science (ESS), Adjunct Instructor, THE CITY COLLEGE OF NEW YORK		2016
Engineering/Physics, Instructor, COLORADO ROCKY MOUNTAIN SCHOOL – (HS) ² PROGRAM, Carbondale, CO		2015
Thermodynamics, Teaching Assistant, DARTMOUTH COLLEGE, Thayer School of Engineering		2014
Big Green Bus, Public Liaison for Sustainability, DARTMOUTH COLLEGE, Thayer School of Engineering		2012

AWARDS & FUNDING

NAU Presidential Fellowship (\$9,000/yr)		2018- PRESENT
CCNY Jeffrey Steiner Award in Graduate Research		2018
NASA NH Space Grant Recipient (\$4,000)		2014-2015
Neukom Institute for Computational Science – Neukom Scholar (\$1,000)		2015
Dartmouth Physics and Astronomy Weed Fund Recipient (\$700)		2014
City of Berkeley's (CA) Excellence in Community Service Award		2010

PUBLICATIONS AND PRESENTATIONS

Koeppel, A.H.D., Black, B. and Marchi, S., (2018 in prep). “Differentiation in Impact Melt Sheets as a Mechanism to Produce Evolved Magmas on Mars.”

Koeppel, A.H.D., Black, B. and Marchi, S., (2017). “Differentiation in Impact Melt Sheets as a Mechanism to Produce Evolved Magmas on Mars.” Abstract P51A-2579 presented at 2017 AGU Fall Meeting, New Orleans, LA, 11-15 Dec.

Fesen, R.A.; Neustadt, J., Black, C., and Koeppel, A. (2015). “Discovery of an Apparent High Latitude Galactic Supernova Remnant.” *The Astrophysical Journal*, Volume 812, 37

NON-SCIENTIFIC FIELD EXPERIENCE

LIFE SCHOOL , Bodega, CA, <i>Field Instructor</i> , Leadership and Wilderness Skills	2016-2018
DARTMOUTH OUTING CLUB , <i>Whitewater kayaking, climbing, skiing and mountain biking instructor</i>	2011-2017
INCLINE SKI AND BOARD , Snowmass, CO, <i>Ski Outfitter</i>	2016
UPPER VALLEY WILDERNESS RESPONSE TEAM – NH/VT	2011-2015
NATIONAL OUTDOOR LEADERSHIP SCHOOL (NOLS) , Patagonia mountaineering, Wilderness EMT	2011
BERKELEY TUOLUMNE CAMP , Yosemite, CA, <i>Nature Guide</i>	2010