Rachel C. Glade

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University of Colorado, Boulder, Boulder, Colorado, USA **EDUCATION** Aug 2014 – Present ■ Ph.D. in Geology Specialization: Geomorphology • Advisor: Robert S. Anderson • Focus: Hillslope evolution in heterogeneous lithology University of Pennsylvania, Philadelphia, Pennsylvania, USA Aug 2010 - May 2014 B.A. in Geology • Benjamin Franklin Scholar • Advisor: Douglas J. Jerolmack • Thesis: "Formation and morphology of aeolian coarse-grained ripples in White Sands, NM" **PUBLICATIONS** Peer-Reviewed Glade, R.C., Anderson, R.S., and Tucker, G.E., (2017), Block-controlled hillslope form and persistence of topography in rocky lansdcapes, *Geology*, v. 45, p. 311-314, doi:10.1130/G38665.1 Other Foster, M.A., Anderson, R.S., Rindfleisch, P.R., Birkeland, P.W., Redwine, J.R., Pitlick, J., and Glade, R.C., (2016), The 2016 Kirk Bryan field trip: Quaternary landslides, fluvial terraces, and recent geomorphic events along the Colorado Front Range, in Keller, S.M., and Morgan, M.L., eds., Unfolding the Geology of the West: Geological Society of America Field Guide 44, p. 267–289, doi:10.1130/2016.0044(12). RESEARCH **Department of Geological Sciences**, University of Colorado, Boulder Aug 2015 – Present **POSITIONS** Graduate Research Assistant West Valley Restoration Project, Erosion Working Group Jan 2016 – Present Research Assistant • Numerical modeling of landscape evolution to aid environmental remediation of site contaminated with radioactive waste May 2013 - Aug 2013 NASA Student Airborne Research Program, Palmdale/Irvine, CA Research Intern • Collected remote sensing data from DC-8 airplane • Produced high-resolution digital elevation models from airborne LiDAR **TEACHING Department of Geological Sciences**, University of Colorado, Boulder Aug 2014 - May 2015 Graduate Teaching Assistant Taught 4 introductory geology lab courses with local field trips **Department of Earth and Environmental Science**, University of Pennsylvania Aug 2013 – Dec 2013 Teaching Assistant · Introductory geology lab course **AWARDS &** • GSA John T. and Carol G. McGill Research Award Recipient 2017 **SCHOLARSHIPS** ■ NSF Graduate Research Fellowship 2016 Honorable Mention NSF Research Grant EAR-1529284, "Blocky Hillslope: From Outcrops to Flatirons" 2015 Contributed to writing of grant application Shell Research Grant 2015 Delaware Valley Geo-Institute Scholarship 2013 2010 SEG/Anadarko Scholarship for Geoscience Studies

PROFESSIONAL AFFILIATIONS & ACTIVITIES

Session Co-Convener

• "Heterogeneity in Geomorphic Systems: Driving Forces and Landscape Response" at Geological Society of America Meeting Sep 2016

Society Membership

American Geophysical Union (AGU)
 Geological Society of America (GSA)
 Community Surface Dynamics Modeling System (CSDMS)

CONFERENCE PROCEEDINGS

- Glade, R.C., Anderson, R.S., and Tucker, G.E., (2016), Hillslope evolution in landscapes dominated by layered rocks, Oral Presentation in *American Geophysical Union Fall Meeting*, San Francisco, CA.
- Glade, R.C., Anderson, R.S., and Tucker, G.E., (2016), Blocks control hillslope evolution in landscapes developed in layered rock, Oral Presentation in *Geological Society of America Annual Meeting*, Denver, CO.
- Glade, R.C., Anderson, R.S., and Tucker, G.E., (2016), Blocks control hillslope evolution in layered landscapes, Poster Presentation in *Community Surface Dynamics Modeling System-Sediment Experimentalists Network Meeting*, Boulder, CO.
- Glade, R.C., Anderson, R.S., (2015), Honoring the reality of blocky hillslopes: Case study of a vertical dike at Shiprock, New Mexico, Poster Presentation in *American Geophysical Union Fall Meeting*, San Francisco, CA.
- Glade, R.C., Jerolmack, D.J., and Pelletier, J.D., (2014), Formational mechanisms and morphology of windblown coarse-grained sand ripples at White Sands, New Mexico, Poster Presentation in *American Geophysical Union Fall Meeting*, San Francisco, CA.
- Glade, R.C., Grigsby, S., and Ustin, S.L., (2013), Relationships between topography and leaf area index in the Sierra Nevada Mountains, California, Poster Presentation in *American Geophysical Union Fall Meeting*, San Francisco, CA.

OUTREACH & SCIENCE COMMUNICATION

CU Science Ambassador

2015 – Present

■ Portal to the Public

2015

- Participated in 6-week science communication workshop
 - Developed hands-on demonstration for "Meet a Scientist" event at Boulder Public Library
- Science Fair Judge for Boulder Valley School District

2016 – Present

OTHER EXPERIENCE

PIRE Mongolia Project

Climate change experiments conducted in Northern Mongolia to determine the effects of climate change on plant diversity

• Lab assistant, UPenn, Philadelphia, PA

- Aug 2011 Mar 2013
- Plant ecology lab work including sample prep, isotope analysis, image processing
 Field assistant, Dalbay Valley, Mongolia
- Jun 2011 Aug 2011

CRB Geological and Environmental Services, Miami, FL

- Jun 2012 Aug 2012
- Groundwater and soil sampling, asbestos surveys, phase I and phase II reports

TECHNICAL SKILLS

Computational

Numerical modeling in MATLAB, Python; GRASS GIS ArcGIS, QGIS; processing of raw LiDAR data; creation of high resolution digital elevation models; ImageJ

Data collection

Terrestial LiDAR; topographic mapping using GPS and total station; Schmidt Hammer; geologic mapping; plant identification; river profiles and pebble counts