

Sarah Harbert

(724) 678-8065
harbert1@uw.edu

Department of Earth and Space Sciences
University of Washington Box 351310
Seattle, WA 98195

Education

Ph.D. candidate, University of Washington (anticipated 2019)
Department of Earth and Space Sciences
Advisor: Alison Duvall

B.S., *summa cum laude*, University of Oregon (2012)
Majors: Geography and Environmental Studies
Minor: Geological Sciences

Publications

Harbert, S. A., Duvall, A. R., & Tucker, G. E. (2018). The role of near-fault relief elements in creating and maintaining a strike-slip landscape. *Geophysical Research Letters*, 45(21), 11,684-11,692.

Gray, H. J., Shobe, C. M., Hopley, D. E., Tucker, G. E., Duvall, A. R., **Harbert, S. A.**, & Owen, L. A. (2017). Off-fault deformation rate along the southern San Andreas fault at Mecca Hills, southern California, inferred from landscape modeling of curved drainages. *Geology*, 46(1), 59-62.

Presentations

Harbert, S., Duvall, A., Flowers, R., Tucker, G., Upton, P., & O'Sullivan, P. (2018). Exhumation, mountain building, and landscape evolution across the Marlborough Fault System, South Island, New Zealand. Abstract 156-6 presented at Geological Society of America annual meeting, Indianapolis, IN, 4-7 Nov.

Harbert, S., Duvall, A., & Tucker, G. (2017). The importance of near-fault relief elements in developing a "classic" strike-slip landscape. Abstract 340-1 presented at Geological Society of America annual meeting, Seattle, WA, 22-25 Oct.

Harbert, S., & Duvall, A. (2017). The evolution of a transform plate boundary: Thermochronology in the Marlborough Fault System, New Zealand. U. Washington ESS Research Gala.

Harbert, S., Duvall, A., & Tucker, G. (2016). Investigating the role of near-fault relief and vertical uplift in strike-slip landscape development. U. Washington ESS Research Gala.

Poster Presentations

Harbert, S., Duvall, A., & Tucker, G. (2016). The Role of Near-Fault Relief in Creating and Maintaining Strike-Slip Landscapes. Abstract EP43A-0938 presented at 2016 Fall Meeting, San Francisco, CA, 12-16 Dec.

Harbert, S., Duvall, A., & Tucker, G. (2016). Investigating the role of near-fault relief and vertical uplift in strike-slip landscape development. Presented at Community Surface Dynamics Modeling System (CSDMS) Annual Meeting, Boulder, Colorado, 17-19 May.

Harbert, S., Duvall, A., & Tucker, G. (2015). Modeling stream capture and ridge migration in strike-slip systems. Presented at Community Surface Dynamics Modeling System (CSDMS) Annual Meeting, Boulder, Colorado, 26-28 May.

Harbert, S., Duvall, A., & Tucker, G. (2014). Modeling strike-slip-driven stream capture in detachment- and transport-limited fluvial settings. Abstract EP53B-3644 presented at 2014 Fall Meeting, AGU, San Francisco, Calif., 15-19 Dec.

Research

Ph.D. Research, 2013-present

U. Washington Department of Earth and Space Sciences

Investigating the tectonic geomorphology of strike-slip fault systems through numerical models and field study in the Marlborough Fault System of New Zealand.

Field Assistant, 2012-2013

U. Oregon Department of Geography

Conducted fluvial-geomorphological and ecological monitoring of a river restoration project designed to improve salmon habitat on the Middle Fork John Day River, Oregon.

Research Assistant, 2012

U. Oregon Department of Geological Sciences

Compiled hydrologic data and formatted GIS data in contribution to a project on ocean circulation in Coos Bay, Oregon.

Professional Experience

Cartographer, 2012-2013

U. Oregon Department of Geography

Performed spatial analysis of demographic data on immigration and language in Montreal. Prepared maps for publication and presentation.

Undergraduate Peer Advisor, 2011-2012

U. Oregon Environmental Studies Program

Advised students on major and minor requirements, university policies, and career opportunities. Maintained database of student files.

Teaching

University of Washington

Upper-division geomorphology

Fluvial geomorphology (ESS 426/526), spring 2019, 2018, 2017, 2015: TA

Hillslope geomorphology (ESS 427/527), fall 2016: TA

Tectonic geomorphology (ESS 425/525), spring 2016: grader

Field geology

Field camp (ESS 400a), summer 2014, 2015, 2016, and 2017: TA, and instructor for fluvial geomorphology segment of field camp in 2015 and 2017. Taught autolevel surveying and the basics of fluvial geomorphology to 30 students.

Nonmajor earth science classes

Introduction to geology (ESS 101), fall 2018 and fall 2015: lab TA

Rivers and beaches (ESS/OCEAN 230), fall 2017: TA

Environmental geosciences (ESS 315), winter 2018 and winter 2014: lab TA

Geoscience communication (ESS 418), spring 2014: TA

Guest Lectures

Soils and erosion

ESS/OCEAN 230, Fall 2017

Hillslope hydrology

ESS 427/527, Fall 2016

Grants, Scholarships and Awards

Dorothy Stephens Fellowship, 2018

Best Geomorphology Talk, U. Washington ESS Research Gala, 2017

Dorothy Stephens Fellowship, 2016

CSDMS Graduate Student Travel Scholarship, 2015 and 2016

Robert and Mary Alice Crosson Graduate Student Support Fund Grant, 2015

Bourgeois Graduate Student Support Fund and Misch Fellowship Grant, 2014

GSA Graduate Research Grant, 2014

Departmental Honors in Geography, U. Oregon, 2012

Dean's Scholarship, U. Oregon, 2008-2012

National Merit Scholarship, U. Oregon, 2008-2012

Service

Member of U. Washington Graduate and Professional Student Senate, 2016-2018

Organizer of Brown Bag graduate talk series, 2015-2017