**Leland J. O’Driscoll - Curriculum Vitae**

University of Oregon

Email: lelando@uoregon.edu

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Education**

Ph.D., Geological Sciences, (geodynamics/seismology) University of Oregon, Eugene, OR, 2012

M.S., Geology and Geophysics, (structural geology) University of New Orleans, New Orleans, LA, 2006

B. A., Geology, Humboldt State University, Arcata, CA, 2003

**Research/Teaching Experience**

Earthquake Early Warning Project Manager/ Seismic Field Technician, University of Oregon-Pacific Northwest Seismic Network, 2015-present

Postdoctoral Researcher, University of Southern California, 2013-2015

Instructor, University of Oregon, Winter 2011, Earth Physics

Field Camp Teaching Assistant,

2013, Field Geology/Geophysics, Morocco (USC)

2008, 2009, 2012, U. Oregon Field Camp, SW Montana

2006, Humboldt State University Field Camp, central Nevada

2004, 2005, Field Camp, southern Death Valley, CA; Taos, NM

**Array management skills**

Logistical: Land-use and research permitting. Array design, deployment scheduling and organization. Equipment testing, verification, repair.

Equipment proficiency: (sensors) STS-2, Guralp CMG3T, Trillium, L-22, (digitizers) Q330, Reftek RT130, Taurus.

Routinely trained field workers, novice to advanced level.

Data: archiving, quality control using Antelope, Nanometrics software, PASSCAL software package.

Outreach: Field demos, elementary and high school science classes. Presentation of science efforts and project summary to government officials. Weblog development. Professional conference presentation.

**Field experience**

Seismologic:

2015-2016, PNSN: Oregon and Washington

2014-2015, Banda Arc: Indonesia/East Timor broadband array

2009-2013**,** PICASSO: Spain/Morocco broadband array

2007-2009**,** MENDOCINO: N. California FlexArray broadband array

2007-2009**,** WALLOWA: NE Oregon, SE Washington, W Idaho, FlexArray broadband array

2008**,** NEWBERRY VOLCANO: Oregon temporary short-period array

Geologic:

2009-2010,Cascade Arc volcanology, University of Oregon

2007, 2008, Wallowa Batholith, NE Oregon, Sampling/mapping of granitic rocks

 2004-2005,University of New Orleans, Structural mapping, southern Alaska

**Public speaking/scientific communication**

Seminar presentations:

November 2008, Humboldt State University seminar

February 2012, Marshall University seminar

March 2012, Idaho State University seminar

March 2013, 2014, USC Lithospheric Dynamics Seminar

November 2013, Caltech Dix Seismology lab seminar

February 2014, UCLA Seismology Seminar

March 2015, Northern Arizona University seminar

**Professional organizations, grants prepared**

AGU, GSA, SSA

GSA student research grant, 2006, 2007

NSF postdoctoral research grant, 2013

NSF Earthscope proposal, 2014

SEG Geoscientists Without Borders grant, 2014, 2015

**Publications**

**O’Driscoll, L.,** Humphreys, E., Saucier, F., 2009, Subduction adjacent to deep continental roots: Enhanced negative pressure in the mantle wedge, mountain building and continental motion, *Earth and Planetary Science Letters,* 280, 61-70

Scharman, M., Pavlis, T., Day, E., **O’Driscoll, L.,** 2011,Deformation and structure in the Chugach metamorphic complex, southern Alaska: Crustal architecture of a transpressional system from a down plunge section, *Geosphere*, v. 7, p. 992-1012

**O’Driscoll, L.,** Humphreys, E, Schmandt, B., 2011, Teleseismic P-wave travel time corrections based on western US SKS splitting measurements, *Geophysical Research Letters,* 38, L19304

**O’Driscoll, L.,** Richards, M., Humphreys, E., 2012, A model for Farallon-South America interactions in the Cenozoic, and the late Eocene-early Oligocene flat slab episode in the central Andes, *Tectonics,* 31, TC2013, doi:10.1029/2011TC003036

**O’Driscoll, L.**, Miller, M., 2015, Lithospheric discontinuity structure in Alaska, thickness variations determined by Sp receiver functions, *Tectonics*

Miller, M., **L. J. O’Driscoll**, A. Butcher, C. Thomas, 2015, Imaging Canary Island hotspot material beneath the lithosphere of Morocco and southern Spain, *Earth and Planetary Science Letters*, 431, [doi:10.1016/j.epsl.2015.09.026](http://dx.doi.org/10.1016/j.epsl.2015.09.026)

Mohanty, D., A. SINGH , **L. O'Driscoll**, R.K. Mangalampally , S. Davulluri, E. Humphreys, 2016, P wave velocity structure below India and Tibet incorporating anisotropic delay time effects, G3