

Department of Geological Sciences

ACADEMIC YEAR ACCOMPLISHMENTS (Summer 2014 through Spring 2015 Quarter)

I. Instructional Innovation

Nourse - The Geology Department purchased a SMART board during summer 2014 and installed it Fall quarter. I used this new technology with great success in two classes: GSC 415 (winter 2015), and GSC 444 (spring 2015). The spring quarter course was co-taught with Dr. Nick Van Buer, and allowed us to experiment with a full range of functionalities. Perhaps most useful is the capability to annotate maps and other drawings in color while lecturing. Annotated drawings, hand-drawn sketches, and class notes are captured at the end of each lecture, then posted on Blackboard as study guides/exam review materials. This allows students to focus on the lecturer rather than trying to catch up with note-taking. In some instances, students (up to four) are asked to work problems on the SMART board, with their peers and instructor providing hints/feedback. The students seem to enjoy these learning opportunities.

Osborn - This year, I have continued using my virtual office hours for lower division classes (GSC 110). I've expanded the use of physical and mathematical models to describe and quantify physical phenomena in my instruction for all classes. The use of a physical model of an aquifer and watersheds really seems to connect with students and allows them to visualize physical phenomena. I have also incorporated the use of a smart board (installed this year) and more problem solving techniques into my curriculum.

Polet - Created new field-based learning modules using newly acquired magnetometers as well as older Ground Penetrating Radar and resistivity units, for GSC434 (W15) and GSC564 (Sp15) classes.

Van Buer - I began using Smart Board technology in two classes (GSC424—Igneous and Metamorphic Petrology, and GSC444—Geotectonics, cotaught with Dr. Jon Nourse). This makes it possible to switch rapidly between annotatable illustrations and whiteboard-style notes. Furthermore, students utilized the board during in-class exercises. All such materials were then uploaded to BlackBoard as study materials.

II. Service

a. Service to the Department

Marshall, Jeffrey:

Curriculum and Semester Conversion Committee (member)

Department RTP Committee (Chair)

Graduate Committee (member)

Lecturer Evaluation Committee (member)

Scholarship Committee (member)

Nourse, Jonathan:

Alumni Reunion Committee (member)
Annual Alumni Reunion and Awards Ceremony (organizer)
Assessment Committee (Chair)
Curriculum and Semester Conversion Committee (Chair)
Department website migration to Cascade web interface (administration and revision)
Geological Sciences Department (Chair)
Geology BS and Geology MS programs (catalog copy editor)
Graduate Committee (Chair)
Recruiting Committee (Chair)
Scholarship Committee (Chair)
Sedimentary Geology/Earth System Sciences Faculty Search Committee (Chair)
Summer Orientation activities for all newly matriculated Geology majors (lead)

Osborn, Stephen:

Alumni Reunion Committee (Chair)
Assessment Committee (member)
Curriculum and Semester Conversion Committee (member)
Department RTP Committee (member)
Geology Club (advisor)
Graduate Committee (member)
Lecturer Evaluation Committee (Chair)
Scholarship Committee (member)
Sedimentary Geology/Earth System Sciences Faculty Search Committee (member)
Seminar Committee (member)

Polet, Jascha:

Assessment Committee (member)
Curriculum and Semester Conversion Committee (member)
Department RTP Committee (member)
Geological Sciences Department Facebook page (administrator)
Graduate Committee (member, Co-Coordinator)
Lecturer Evaluation Committee (member)
Recruiting Committee (member)
Scholarship Committee (member)
Sedimentary Geology/Earth System Sciences Faculty Search Committee (member)
Seminar Committee (Co-Coordinator)

Seminars on Graduate School, Internship and Scholarship Opportunities, and Senior Project Research Opportunities (co-presenter)

Van Buer, Nicholas:

Alumni Reunion Committee (member)
Assessment Committee (member)
Curriculum and Semester Conversion Committee (member)
Geology Club (co-advisor)
Graduate Committee (member)
Scholarship Committee (member)
Sedimentary Geology/Earth System Sciences Faculty Search Committee (member)
Seminar Committee (member)

b. **Service to the College**

Marshall, Jeffrey:

Center for Excellence in Math & Science Teaching (CEMaST) (faculty fellow)
Science Educational Enhancement Services (SEES) (faculty advisor)

Nourse, Jonathan:

College Curriculum Committee (member)
College of Science Department Chairs' Council (member)
College of Science Shop Committee (member)
Provost's Teacher-Scholar Support Initiative (proposal review)
Ralph W. Ames Distinguished Research Award Selection Committee (member)

Osborn, Stephen:

Campus Preview Day (Geology representative)

Polet, Jascha:

College of Science Distinguished Teaching Award Committee (member)
NSF S-STEM and SEES Scholarships Program (student advisor)

c. **Service to the University (CPP & CSU)**

Marshall, Jeffrey:

Campus Water Initiative Task Force (member)
CSU Council on Ocean Affairs, Science, and Technology (COAST) Initiative (campus representative)
International Center Advisory Council (member)

Kellogg Undergraduate Scholars (KUSP) & FuTURE Mini-Grant Program (Director)
Lyle Center for Regenerative Studies (adjunct faculty)
Teacher Scholar Task Force (member)
Undergraduate Research Faculty Advisory Council (URFAC) (*ex-officio* member)

Nourse, Jonathan:

Annual Alumni Newsletter “The Mylonite” (writer, publisher and distributor)
GIS Certificate Design Committee (SCI representative)
GIS Minor (SCI representative)
University Council of Chairs (member)
University GE Assessment Committee (SCI representative)
University Graduate Council (Geology representative)

Osborn, Stephen:

Campus Water Initiative Committee (member)
Emergency Preparedness Committee (member) and building 4, floor A (EOC Marshal)
Environmental Sustainability Task Force (member)
Kellogg KUSP & FuTURE Mini-Grant Program (proposal reviewer)
Learning Communities Pilot Implementation Committee (member)
Research, Scholarship, and Creative Activity (RSCA) Review Committee (member)
Science, Technology and Society (STS) Advisory Board (member)
Strategic Interdisciplinary Research Grant (proposal reviewer)
Undergraduate Research Faculty Advisory Council (URFAC) (member)

Polet, Jascha:

Academic Affairs Committee (member)
Academic Senate (Senator)
Incorporated Research Institutions for Seismology Consortium (institutional representative and voting member)
Southern California Earthquake Center (institutional representative)
Undergraduate Research Faculty Advisory Council (URFAC) (*ex-officio* member)
University Graduate Council (alternate Geology representative)
Western North America InSAR (WInSAR) Consortium (institutional representative)

d. **Service to the Profession**

Marshall, Jeffrey:

Council on Undergraduate Research (CUR), Geosciences Division (Nationally Elected Councilor and campus liason)

NSF GeoPRISMS Program Education Advisory Committee (GEAC) (member)

On behalf of the New Zealand Journal of Geology and Geophysics (manuscript reviewer)

Workshop on “Accretionary vs. Erosional Subduction Margins” September 2014, *National Science Foundation MARGINS Program Mini-Lesson Workshop*, Carleton College, Northfield, MN (co-convener and workshop facilitator with Pearson, D., Moore, C., & Richardson, E.)

Nourse, Jonathan:

UCLA Tectonics Working Group, May 2015, Los Angeles, CA (invited speaker)

Osborn, Stephen:

Geological Society of America National Meetings, October 2014, Vancouver, BC, Canada (session organizer and Chair)

On behalf of the journals, *Proceedings of the National Academy of Sciences*, *USA Applied Geochemistry*, *Environmental Science and Technology*, and *Hydrogeology* (reviewer)

Polet, Jascha:

NSF Geophysics and Tectonophysics (grant proposal reviewer)

On behalf of the journals, *Bulletin of Seismological Society of America*, *Seismological Research Letters*, and *Journal of Geophysical Research* (manuscript reviewer)

Seismological Society of America Communications Committee (member)

State Mitigation Assessment Response Team (member)

e. **Service related to Academic Outreach to Students**

Marshall, Jeffrey:

Sycamore Elementary School, Claremont USD, Claremont, CA, field trip (grades 4th-6th grade, n=80 students) to Mt. San Antonio College Planetarium, Walnut, CA, November 2014 (adult chaperone)

Nourse, Jonathan:

Research experiences for 4 Pasadena City College prospective geology applicants and CPP graduate/undergraduate peer mentors (research advisor and field activity leader)

Polet, Jascha:

Pasadena City College – Cal Poly Pomona STEM Pathways in Environmental Sciences (PI and project lead)

f. **Service to the Greater Community**

Marshall, Jeffrey:

Boy Scouts of America, Troop 407, Claremont, CA (adult leader and committee member)

Pomona College Geology Department, Annual Woodford-Eckis Banquet & Lecture, February 2015, Claremont, CA (invited guest and CPP representative)

Professional development workshops and science lesson planning for Pomona USD grades 2,4, and 6 teachers in the earth sciences as part of CEMaST's RESPeCT (Reinvigorating Elementary Science through a Partnership with California Teachers) grant (content expert, curriculum development, trainer)

Osborn, Stephen:

Culver City and Mujeres de la Tierra, community forum on Inglewood Oil Field (invited speaker)
Mujeres de la Tierra, Inglewood Oil Field community outreach (scientific liaison)

Polet, Jascha:

Twitter account (CPP Geophysics) with ~2500 followers, on topics related to Geophysics on a global, regional and local (campus) scale (maintainer)

Van Buer, Nicholas:

SAGE 2YC workshop at Pasadena Community College to exchange ideas on how to help create smoother transitions for geoscience transfer students from two-year colleges to CSU and UC campuses (participant)

CALENDAR YEAR ACCOMPLISHMENTS (January 1, 2014 through December 31, 2014)

III. A. Research, Scholarship and Creative Activity (January 1, 2014 through December 31, 2014)

a. Publications (Peer Reviewed)

Marshall, J. S., Gardner, T., Protti, M. & Morrish^{##}, S. (2014). The geomorphic footprint of megathrust earthquakes: morphotectonics of the 2012 MW 7.6 Nicoya earthquake, Costa Rica. In: *Proceedings of the 27th Annual Keck Research Symposium in Geology, Claremont, CA, 27, 1-10*, ISSN 1528-7491.

McIntosh, J., Grasby, S., Hamilton, S. & **Osborn, S. G.** (2014). Origin, distribution and hydrogeochemical controls on methane occurrences in shallow aquifers, southwestern Ontario, Canada. *Applied Geochemistry*, 50, 37-52. doi:10.1016/j.apgeochem.2014.08.001.

Osborn, S. G., Duffield, L., Elliott, W. C., Wampler, J., Elmore, R. D. & Engel, M. H. (2014). The timing of diagenesis and thermal maturation of the cretaceous Marias River shale, Disturbed Belt, Montana. *Clays and Clay Minerals*, 62(2), 112-125. doi: 10.1346/CCMN.2014.0620204.

Protti, M., Gonzalez, V., Newman, A. V., Dixon, T. H., Schwartz, S. Y., **Marshall, J. S.**, Feng, L., Walter, J. I., Malservisi, R. & Owen, S. E. (2014). Nicoya earthquake rupture anticipated by geodetic measurement of the locked plate interface. *Nature Geoscience*, 7, 117-121. doi: 10.1038/ngeo2038.

Protti, M., González, V., Schwartz, S. Y., Dixon, T. H., Newman, A. V., Feng, L. & **Marshall, J. S.** (2014). El terremoto de Nicoya (Mw=7.6), Costa Rica, Del 5 de Septiembre Del 2012: Un caso exitoso de anticipación. *Revista En Torno a La Prevención*, 12 (Special Edition: Terremoto de Nicoya), 6-12.

b. Publications (Non-Peer Reviewed)

- Baca[#], A. J. & **Polet, J.** (2014). Depths of Indian Ocean intraplate earthquakes from waveform modeling. Abstract 102 presented at the 2014 Seismological Society of America Annual Meeting, Anchorage, AK. (April 30-May 2, 2014). *Seismological Research Letters*, 85(2), 414.
- Barba^{##}, M. & Peltzer, G. (2014). Near-field post-seismic deformation of the 1992 Landers earthquake using time-series analysis of ERS and Envisat InSAR. Abstract 84 presented at the 2014 Seismological Society of America Annual Meeting, Anchorage, AK. (April 30-May 2, 2014). *Seismological Research Letters*, 85(2), 546.
- Lenhert[#], L., Soto[#], P. M., **Nourse, J. A.** & **Osborn, S. G.** (2014). Discharge and oxygen-hydrogen isotopic characteristics of fault zone-sourced springs in Evey and Palmer Canyons, eastern San Gabriel Mountains, California. Abstract 214-7 presented at the 2014 GSA Annual Meeting in Vancouver, BC (October 19-22, 2014). *Geological Society of America (GSA) Abstracts with Programs*, 46(6), 528.
- Marshall, J. S.**, Gardner, T., Protti, M. & Morrish^{##}, S. (2014). Investigating megathrust morphotectonics: Keck Geology Consortium undergraduate research on the 2012 Mw7.6 Nicoya Earthquake, Costa Rica, Central America. Abstract 73-10 presented at the 2014 GSA Annual Meeting in Vancouver, BC (October 19-22, 2014). *2014 Annual Meeting, GSA Abstracts with Programs*, 46(6), 193.
- Marshall, J. S.**, Morrish^{##}, S., LaFromboise^{##}, E., Butcher[#], A., Khaw[#], F., Ritzinger[#], B., Utick[#], J., Wellington[#], K., Gardner, T. & Owen, L. (2014). Megathrust earthquakes and morphotectonic evolution of the Nicoya Peninsula forearc, Costa Rica, Central America. Abstract 90-12 presented at the 2014 GSA Annual Meeting in Vancouver, BC (October 19-22, 2014). *2014 Annual Meeting, GSA Abstracts with Programs*, 46(6), 236.
- McIntosh, J. C., Person, M., Hamilton, S., Grasby, S. E., Schlegel, M., **Osborn, S. G.**, Martini, A. & Ballentine, C. (2014). Impacts of Pleistocene glaciation on hydrobiogeochemical processes in sedimentary basins. Abstract 102-12 presented at the 2014 GSA Annual Meeting in Vancouver, BC (October 19-22, 2014). *2014 Annual Meeting, GSA Abstracts with Programs*, 46(6), 264.
- McLarty^{##}, A. H., **Nourse, J. A.**, Wicks^{##}, L. E. & McLarty, M. (2014). Structural constraints on faults that accommodated late Cenozoic extension and transrotation of the rand mountains block, northwestern Mojave Desert, California. Abstract 141-9 presented at the 2014 GSA Annual Meeting in Vancouver, BC (October 19-22, 2014). *2014 Annual Meeting, GSA Abstracts with Programs*, 46(6), 359.
- Mejia^{##}, H. P. (2014). Depth determination by waveform modeling of earthquakes along the outer rise region of the Kuril Islands (Master's thesis). California State Polytechnic University, Pomona, CA.
- Mejia^{##}, H., **Polet, J.**, Thio, H. K. & Pitarka, A. (2014). Accurate depth determination of earthquakes along the Kuril Islands outer rise from waveform modeling. Abstract 99 presented at the 2014 Seismological Society of America Annual Meeting, Anchorage, AK. (April 30-May 2, 2014). *Seismological Research Letters*, 85(2), 549.
- Newman, A. V., Protti, M., Kyriakopoulos, C., Feng, L., Dixon, T., Malservisi, R., Walter, J., Peng, Z., Schwartz, S. & **Marshall, J. S.** (2014). Completing the cycle? Near-field observations of interseismic coupling, megathrust rupture, postseismic response, and recovery of interface coupling along the Nicoya Peninsula of Costa Rica. Abstract 90-11 presented at the 2014 GSA Annual Meeting in Vancouver, BC (October 19-22, 2014). *2014 Annual Meeting, GSA Abstracts with Programs*, 46(6), 236.

- Nourse, J. A.** & McLarty^{##}, A. H. (2014). A model for late Cenozoic extension and transrotation of the Rand Mountains block, northwestern Mojave Desert, California. Abstract 64-11 presented at the 2014 GSA Annual Meeting in Vancouver, BC (October 19-22, 2014). *2014 Annual Meeting, GSA Abstracts with Programs*, 46(6), 173.
- Pazos^{##}, C. S. (2014). Analysis of micro-earthquakes in the San Gabriel Mountains foothills region and the greater Pomona area as recorded by a temporary seismic deployment (Master's thesis). California State Polytechnic University, Pomona, CA.
- Pazos^{##}, C. S., Levario[#], J. J., Nget[#], D. & **Polet, J.** (2014). Analysis of micro-earthquakes in the Sierra Madre-Cucamonga fault zone transition as recorded by a temporary seismic deployment. Abstract 34 presented at the 2014 Seismological Society of America Annual Meeting, Anchorage, AK. (April 30-May 2, 2014). *Seismological Research Letters*, 85(2), 443.
- Polet, J.**, Simons, M., Fielding, E. J. & Samsonov, S. V. (2014). A joint seismic and geodetic rupture model for the 2012 Haida Gwaii Earthquake and the location of slip on the interface relative to the Queen Charlotte Fault. Abstract 16 presented at the 2014 Seismological Society of America Annual Meeting, Anchorage, AK. (April 30-May 2, 2014). *Seismological Research Letters*, 85(2), 485.
- Rogers, J. E., **Osborn, S. G.** & Ryan, J. N. (2014, October). Fate and transport of four organic compounds frequently used in hydraulic fracturing fluid in laboratory columns containing aquifer sediments. Abstract 339-2 presented at the 2014 GSA Annual Meeting in Vancouver, BC (October 19-22, 2014). *2014 Annual Meeting, GSA Abstracts with Programs*, 46(6), 815.
- Sargent^{##}, J. G. (2014). Source of fluids and salinity in shallow groundwater near natural gas extraction Weld, Adams, and Boulder Counties, Colorado. (Master's thesis). California State Polytechnic University, Pomona, CA.
- Schwartz, S. Y., Dixon, T. H., **Marshall, J. S.**, Newman, A. V., Protti, M. & González, V. (2014). September 5, 2012 Mw=7.6 Nicoya earthquake occurs at the bull's eye of a MARGINS Seismogenic Zone Experiment (SEIZE) focus site. *NSF GeoPRISMS Newsletter*, 32, 8-10.
- Sherwood, O., Rogers, J., Lackey, G., Burke, T., **Osborn, S. G.** & Ryan, J. (2014). Identification and occurrence of thermogenic stray gas in groundwater wells of the Denver-Julesburg and Piceance Basins of Colorado. Abstract 285-8 presented at the 2014 GSA Annual Meeting in Vancouver, BC (October 19-22, 2014). *2014 Annual Meeting, GSA Abstracts with Programs*, 46(6), 693.
- Soto[#], P. M., Lenhart[#], L., **Nourse, J. A.** & **Osborn, S. G.** (2014). Discharge and geochemical characteristics of Evey Canyon and Icehouse Canyon Springs, San Gabriel Mountains, during extended drought. Abstract 214-19 presented at the 2014 GSA Annual Meeting in Vancouver, BC (October 19-22, 2014). *2014 Annual Meeting, GSA Abstracts with Programs*, 46(6), 530.
- Thio, H. K., **Polet, J.**, Li, W., Wilson, R. & Somerville, P. (2014). Probabilistic tsunami hazard mapping. Abstract 12 presented at the 2014 Seismological Society of America Annual Meeting, Anchorage, AK. (April 30-May 2, 2014). *Seismological Research Letters*, 85(2), 484.
- Thomas[#], P. (2014). Potential impacts of large-scale flooding (September, 2013) on water quality of the south Platte River, Weld County Colorado. Abstract 249-9 presented at the 2014 GSA Annual Meeting in Vancouver, BC (October 19-22, 2014). *2014 Annual Meeting, GSA Abstracts with Programs*, 46(6), 612.
- Wicks^{##}, L. (2014). Hydrogeologic and geochemical investigation of robust spring discharge at Wingate Ranch, eastern San Gabriel Mountains, California (Master's thesis). California State Polytechnic University, Pomona, CA.

- c. **Published Book (as author or editor of a book, volume, or chapter)** – None reported.

III. B. Presentations

1. At Professional Conferences

- Baca[#], A. & **Polet, J.** (2014, May). Depth of earthquake rupture in the Indian Ocean lithosphere. *9th Annual College of Science Research Symposium*, California State Polytechnic University, Pomona, CA. (L/R)
- Baca[#], A. J. & **Polet, J.** (2014, May). Depths of Indian Ocean intraplate earthquakes from waveform modeling. *Seismological Society of America Annual Meeting*, Anchorage, AK. (N*)
- Baca[#], A. J. & **Polet, J.** (2014, December). Depths of intraplate Indian Ocean Earthquakes from waveform modeling. *American Geophysical Union (AGU) Fall Meeting*, San Francisco, CA. (I*)
- Barba^{##}, M. & Peltzer, G. (2014, May). Near-field post-seismic deformation of the 1992 landers earthquake using time-series analysis of ERS and Envisat InSAR. *Seismological Society of America Annual Meeting*, Anchorage, AK. (N*)
- Clayton, R. W., Barklage, M., Cochran, E., Hollis, D., Davis, P., Erickson, B., **Polet, J.**, Barto, B., Cox, C. & Padgett, M. (2014, September). LASSIE: A high-density short-duration broadband seismic survey of the Los Angeles Basin. *2014 Southern California Earthquake Center Annual Meeting*, Palm Springs, CA. (N*)
- Burgi, P., Loveless, J., **Marshall, J. S.** & Protti, M. (2014, December). Modeling coseismic slip of the 2012 Nicoya Peninsula Earthquake, Costa Rica: roles of megathrust geometry and surface displacement. *American Geophysical Union (AGU) Fall Meeting*, San Francisco, CA. (I*)
- Chantrapornlert^{##}, K. J. & **Polet, J.** (2014, September). Utilizing resistivity surveys to map the San Jose fault on Cal Poly Pomona campus in southern California. *17th Annual AAPG-SEG Student Expo*, Houston, TX. (N*)
- Chantrapornlert^{##}, K. J. & **Polet, J.** (2014, October). Resistivity surveys of the Cal Poly Pomona campus. *AAPG-SEG West Coast Student Expo*, Northridge, CA. (L/R*)
- Chantrapornlert^{##}, K. J. & **Polet, J.** (2014, November). Locating shallow reverse faulting with resistivity surveys. *South Coast Geological Society Meeting*, Santa Ana, CA. (L/R)
- Hatch[#], R. L. (mentor: **Polet, J.**) (2014, March). Analysis of local dynamic triggering in southern California due to 2010 El Mayor Cucapah earthquake. *2nd Annual Cal Poly Pomona Student Research Conference*, California State Polytechnic University, Pomona, CA. (L/R)
- Hatch[#], R. L. & **Polet, J.** (2014, September). Earthquake triggering and tremor: detecting micro-seismic events in the western U.S due to the 2010 El Mayor Cucapah Earthquake and the Mw6.8 Mendocino Triple Junction Earthquake in 2014. *2014 Southern California Earthquake Center Annual Meeting*, Palm Springs. (N*)
- Hatch[#], R. L. & **Polet, J.** (2014, December). Analysis of triggering of earthquakes and tremor in the western U.S. due to the 2010 El Mayor Cucapah earthquake and the Mw6.8 Mendocino Triple Junction earthquake in 2014. *American Geophysical Union 2014 Fall Meeting*, San Francisco, CA. (N*)
- Hernandez[#], D., Gulick, V. & Narlesky, C. (2014, March). Gullies on Mars: Fluvial geologic processes as evidence for liquid water on Mars. *45th Lunar and Planetary Science Conference*, The Woodlands, TX. (I)

- Hernandez[#], D., Gulick, V. & Narlesky, C. (2014, May). Gullies on Mars: fluvial geologic processes as evidence for liquid water on Mars. *9th Annual College of Science Research Symposium*, California State Polytechnic University, Pomona, CA. (L/R)
- Ho^{##}, K. Y. K. & **Polet, J.** (2014, September). Preliminary site response maps from H/V spectral ratio analysis on Cal Poly Pomona campus. *2014 Southern California Earthquake Center Annual Meeting*, Palm Springs. (N*)
- Ho^{##}, K. Y. K. & **Polet, J.** (2014, November). Preliminary site response maps from H/V spectral ratio analysis on Cal Poly Pomona campus. *South Coast Geological Society Meeting*, Santa Ana, CA. (L/R)
- Ho^{##}, K. Y. K. & **Polet, J.** (2014, December). Mapping site response parameters on Cal Poly Pomona campus using the spectral ratio method. *American Geophysical Union (AGU) Fall Meeting*, San Francisco, CA. (I*)
- Lenhert[#], L., Soto[#], P. M., **Nourse, J. A.** & **Osborn, S. G.** (2014, October). Discharge and oxygen-hydrogen isotopic characteristics of fault zone-sourced springs in Evey and Palmer Canyons, eastern San Gabriel Mountains, California. *Geological Society of America National Meeting*, Vancouver, BC, Canada. (N)
- Levario^{##}, J., Pazos^{##}, C., Nget[#], D. & **Polet, J.** (2014, September). Analysis of micro-earthquakes in the Sierra Madre-Cucamonga fault zone and the greater Pomona area as recorded by a temporary seismic deployment. *2014 Southern California Earthquake Center Annual Meeting*, Palm Springs. (N*)
- Loukeh[#], J., Kaiser[#], K. & **Osborn, S. G.** (2014, May). Tracing groundwater and salinity sources for the Dos Palmas Preserve. *9th Annual College of Science Research Symposium*, California State Polytechnic University, Pomona, CA. (L/R)
- Marshall, J. S.**, Gardner, T., Protti, M. & Morrish^{##}, S. (2014, April). The geomorphic footprint of megathrust earthquakes: morphotectonics of the 2012 Mw7.6 Nicoya Earthquake, Costa Rica. *The 27th Keck Research Symposium in Geology*, Mt. Holyoke College, South Hadley, MA. (N)
- Marshall, J. S.**, Gardner, T., Protti, M. & Morrish^{##}, S. (2014, October). Investigating megathrust morphotectonics: Keck Geology Consortium undergraduate research on the 2012 Mw7.6 Nicoya Earthquake, Costa Rica, Central America. *2014 Annual Meeting, Geological Society of America*, Vancouver, BC, Canada. (N)
- Marshall, J. S.**, Morrish^{##}, S., LaFromboise^{##}, E., Butcher[#], A., Khaw[#], F., Ritzinger[#], B., Utick[#], J., Wellington[#], K., Gardner, T. & Owen, L. (2014, October). Megathrust earthquakes and morphotectonic evolution of the Nicoya Peninsula forearc, Costa Rica, Central America. *2014 Annual Meeting, Geological Society of America*, Vancouver, BC, Canada. (N)
- McIntosh, J. C., Person, M., Hamilton, S., Grasby, S. E., Schlegel, M., **Osborn, S. G.**, Martini, A. & Ballentine, C. (2014, October). Impacts of Pleistocene glaciation on hydrobiogeochemical processes in sedimentary basins. *2014 Annual Meeting, Geological Society of America*, Vancouver, BC, Canada. (N)
- McLarty^{##}, A. H., **Nourse, J. A.**, Wicks^{##}, L. E. & McLarty, M. (2014, October). Structural constraints on faults that accommodated late Cenozoic extension and transrotation of the Rand Mountains block, northwestern Mojave Desert, California. *Geological Society of America National Meeting*, Vancouver, BC, Canada. (N)
- Mejia^{##}, H., **Polet, J.**, Thio, H. K. & Pitarka, A. (2014, May). Accurate depth determination of earthquakes along the Kuril Islands outer rise from waveform modeling. *Seismological Society of America Annual Meeting*, Anchorage, AK. (N*)

- Mendoza[#], R. (mentor: **Roumelis, E.**) (2014, March). Fault trench documentation; sketch vs imagery trench logging. *2nd Annual Cal Poly Pomona Student Research Conference*, California State Polytechnic University, Pomona, CA. (L/R)
- Morgan, J., Costa, A., Goodliffe, A., **Marshall, J. S.** & Iverson, E. (2014, December). Incorporating cutting edge scientific results from the NSF MARGINS-GeoPRISMS Program into the undergraduate curriculum: an overview. *American Geophysical Union (AGU) Fall Meeting*, San Francisco, CA. (I*)
- Morrish^{##}, S. & **Marshall, J. S.** (2014, May). Morphotectonic index analysis as an indicator of neotectonic segmentation of the Nicoya Peninsula, Costa Rica. *9th Annual College of Science Research Symposium*, California State Polytechnic University, Pomona, CA. (L/R)
- Newman, A. V., Protti, M., Kyriakopoulos, C., Feng, L., Dixon, T., Malservisi, R., Walter, J., Peng, Z., Schwartz, S. & **Marshall, J. S.** (2014, October). Completing the cycle? Near-field observations of interseismic coupling, megathrust rupture, postseismic response, and recovery of interface coupling along the Nicoya Peninsula of Costa Rica. *2014 Annual Meeting, Geological Society of America*, Vancouver, BC, Canada. (N)
- Nourse, J. A.** & McLarty^{##}, A. H. (2014, October). A model for late Cenozoic extension and transrotation of the Rand Mountains block, northwestern Mojave Desert, California. *Geological Society of America National Meeting*, Vancouver, BC, Canada. (N)
- Owen, S., Simons, M., Hua, H., Yun, S-H., Agram, P., Milillo, P., Sacco, G., Webb, F., Rosen, P., Lundgren, P., Milillo, G., Manipon, G. J., Moore, A., Liu, Z., **Polet, J.** & Cruz, J. (2014, December). Using SAR and GPS for hazard management and response: progress and examples from the Advanced Rapid Imaging and Analysis (ARIA Project). *American Geophysical Union (AGU) Fall Meeting*, San Francisco, CA. (I*)
- Pazos^{##}, C. S., Levario[#], J. J., Nget[#], D. & **Polet, J.** (2014, April). Analysis of micro-earthquakes in the sierra Madre- Cucamonga fault zone transition as recorded by a temporary seismic deployment. *Seismological Society of America Annual Meeting*, Anchorage, AK. (N*)
- Polet, J.**, Simons, M., Fielding, E. J. & Samsonov, S. V. (2014, May). A joint seismic and geodetic rupture model for the 2012 Haida Gwaii Earthquake and the location of slip on the interface relative to the Queen Charlotte Fault. *Seismological Society of America Annual Meeting*, Anchorage, AK. (N*)
- Protti, M., González, V., Schwartz, S., Sampson, D., Dixon, T., Newman, A.V., Lundgren, P., Owen, S., Feng, L., **Marshall, J. S.**, Kato, T., Kaneda, Y., Iiunuma, T., Abers, G., Fisher, K., Melbourne, T., Simila, G. & Thorwart, M. (2014, October). Capturando un terremoto en el campo cercano: un excelente ejemplo de cooperación académica internacional. *3rd Congreso Internacional de Educación Superior*, Universidad Nacional de Costa Rica, Heredia, C.R. (I)
- Reigel[#], C. & **Nourse, J. A.** (2014, May). Water flow rates near Crystal Lake in the San Gabriel Mountains. *9th Annual College of Science Research Symposium*, California State Polytechnic University, Pomona, CA. (L/R)
- Rogers, J., **Osborn, S. G.** & Ryan, J. N. (2014, October). Fate and transport of four organic compounds frequently used in hydraulic fracturing fluid in laboratory columns containing aquifer sediments. *2014 Geological Society of America (GSA) National Meetings*, Vancouver, BC, Canada. (N)
- Rogers, J., Sherwood, O., Lackey, G., Burke, T., **Osborn, S. G.** & Ryan, J. (2014, December). Occurrence and origin of methane in relation to major ion concentrations in groundwater wells of the Denver-Julesburg and Piceance Basins of Colorado. *American Geophysical Union (AGU) Fall Meeting*, San Francisco, CA. (I*)
- Sherwood, O., Rogers, J., Lackey, G., Burke, T., **Osborn, S. G.** & Ryan, J. (2014, October). Identification and occurrence of thermogenic stray gas in groundwater wells of the Denver-Julesburg and

- Piceance Basins of Colorado. *2014 Geological Society of America (GSA) National Meetings*, Vancouver, BC, Canada. (N)
- Soto[#], P. M., Lenhart[#], L., **Nourse, J. A. & Osborn, S. G.** (2014, May). Hydrogeology and geochemistry of bedrock vs. landslide-sourced springs in the eastern San Gabriel mountains, California. *9th Annual College of Science Research Symposium*, California State Polytechnic University, Pomona, CA. (L/R)
- Soto[#], P. M., Lenhart[#], L., **Nourse, J. A. & Osborn, S. G.** (2014, October). Discharge and geochemical characteristics of Evey Canyon and Icehouse Canyon Springs, San Gabriel Mountains, during extended drought. *Geological Society of America National Meeting*, Vancouver, BC, Canada. (N)
- Stewart[#], D. & (mentor: **Marshall, J. S.**) (2014, November). Stratigraphic architecture of an anomalous holocene beachrock outcrop, Playa Garza, Nicoya Peninsula, Costa Rica. *Southern California Conference for Undergraduate Research (SCCUR)*, CSU Fullerton, Fullerton, CA. (L/R*)
- Thio, H. K., **Polet, J.**, Li, W., Wilson, R. & Somerville, P. (2014, May). Probabilistic tsunami hazard mapping. *Seismological Society of America Annual Meeting*, Anchorage, AK. (N*)
- Thomas[#], P. & **Osborn, S. G.** (2014, May). Impacts of 500-year flood on surface water resources in areas of oil/gas production, South Platte River, CO. *9th Annual College of Science Research Symposium*, California State Polytechnic University, Pomona, CA. (L/R)
- Thomas[#], P. & **Osborn, S. G.** (2014, October). Potential impacts of large-scale flooding (September 2013) on water quality of the South Platte River, Weld County, Colorado. *2014 Geological Society of America (GSA) National Meetings*, Vancouver, BC, Canada. (N)
- Van Buer, N. J.**, Jagoutz, O., Upadhyay, R. & Guillong, M. (2014, December). Eastward escape of Tibet facilitated by mid-crustal upwelling where conjugate faults meet at its western end. *American Geophysical Union (AGU) Fall Meeting*, San Francisco, CA. (I*)
- Wenceslao[#], L. A. & **Nourse, J. A.** (2014). Identification of beachrocks in the Nicoya Peninsula of Costa Rica. *9th Annual College of Science Research Symposium*, California State Polytechnic University, Pomona, CA. (L/R)
- Wicks^{##}, L. E., **Nourse, J. A. & Osborn, S. G.** (2014). Hydrogeologic and geochemical investigation of robust spring discharge from a major landslide in the eastern San Gabriel Mountains, California. *9th Annual College of Science Research Symposium*, California State Polytechnic University, Pomona, CA. (L/R)
- Wolfe[#], O. (mentor: **Polet, J.**) (2013, May). Tectonic analysis of faulting on the south flank of Kilauea, Hawaii. *Kellogg Honors College Convocation*, California State Polytechnic University, Pomona, CA. (L/R) (not reported in 2013)
- Wolfe[#], O. M. & **Nourse, J. A.** (2014). Preliminary analysis of field data and thin sections from Blue Ridge. *9th Annual College of Science Research Symposium*, California State Polytechnic University, Pomona, CA. (L/R)

2. Invited Talks or Workshops

- Pearson, D., Moore, C., **Marshall, J. S.** & Richardson, E. (2014, September). Accretionary vs. erosional subduction margins. *National Science Foundation MARGINS Program Mini-Lesson Workshop*, Carleton College, Northfield, MN.

IV. Grant Activities

- a. **Extramural Grants (New) – Submitted in 2014.**

- Marshall, J.** Collaborative Research: Controls on along-strike variations in locked and creeping megathrust behavior at the Hikurangi convergent margin, National Science Foundation (NSF), Integrated Earth System Program, \$335,893. (P)
- Nourse, J. A.** (PI), with Co-PI, Miranda^{##}, D. Discharge and precipitation analysis in Icehouse Canyon during transition from extended drought to El Nino recharge, USDA/Water Resources Policy Initiative Watershed Management Program, \$4,500. (F)
- Murray, M.** (PI), with Co-PIs, **Palomo, M., Osborn, S., & Murinda, S.** Enhanced water and energy sustainability through water reclamation and biofuel production, US Department of Defense, \$418,390. (NF)
- Osborn, S.** (PI), with Co-PI, **Questad, E.** Acquisition of a Picarro L2130-I isotope (oxygen and hydrogen) analyzer for hydrogeologic and biological research, National Science Foundation (NSF), Major Research Instrumentation (MRI) program, \$155,139. (NF)
- Polet, J.** Pasadena City College-Cal Poly Pomona STEM Pathways in Environmental Sciences, Department of Education, sub award from Pasadena City College (Year 4), \$351,897. Sept. 2014-Aug. 2015. (F)
- Polet, J.** Rapid fault inversion for earthquakes in Southern California using the Cybershake Library of 3D Green's Functions: Collaborative Research with URS Group Inc., and California State Polytechnic University in Pomona, U.S. Geological Survey (USGS), \$29,294. Sept. 2014-Aug. 2015. (F)
- Persaud, P.** 3-D Seismotectonic-Velocity model of the Salton Trough Region based on seismicity and explosive shots from the Salton Seismic Imaging Project, US Dept. of the Interior, USGS Science for a Changing World Program, \$53,129. Dec. 2014-Nov. 2015. (F)

b. Extramural Grants (Ongoing) - Received prior to 2014 and continuing into or beyond 2014.

- Marshall, J.** Collaborative Research: Bringing National Science Foundation (NSF) Geodynamic Processes at Rifting and Subducting Margins (MARGINS/GeoPRISMS) Continental Margins Research into the undergraduate curriculum, NSF Transforming Undergraduate Education in STEM (TUES) Program, \$19,367. Sept. 2012-Aug. 2014.
- Marshall, J.** The geomorphic footprint of mega thrust earthquakes: a field investigation of convergent margin morph tectonics, Nicoya Peninsula, Costa Rica, National Science Foundation (NSF), Earth Sciences (EAR) – Research Experiences for Undergraduates (REU) program, sub award through Keck Geology Consortium, \$61,000. Jan. 2013-June 2014.
- Nourse, J. A.** (PI), with Co-PI, Soto[#], P. Water quality of the San Antonio Creek watershed, USDA/Water Resources Policy Initiative Watershed Management Program, \$4,500.
- Osborn, S. G.** (PI). Routes to sustainability for natural gas development and water and air resources in the Rocky Mountain Region, National Science Foundation (NSF), Sustainability Research Networks, sub award from University of Colorado Regents, \$750,000. Oct. 2012-Sept. 2017.
- Owen, S.** (PI-JPL), with consultant, **Polet, J.** Rapid imaging of natural hazards, National Aeronautics and Space Administration (NASA) ROSES 2013, \$60,130. Sept. 2014 - 2017.
- Polet, J.** Pasadena City College-Cal Poly Pomona STEM Pathways in Environmental Sciences, Department of Education, sub award from Pasadena City College (Year 3), \$363,161. Sept. 2013-Aug. 2014.

Polet, J. Contributions to the ARIA-EQ system development, National Aeronautics and Space Administration (NASA), subcontract through Caltech/JPL, \$137,904 (\$29,824 supplement received). Sept. 2011-Sept. 2015.

Wickler, N. I. Z. (PI), with Co-PIs, **Beardsley, P. M., Caine, A.,** Roth, K (BSCS), and contributions from **Marshall, J., Page, M., Riggs, L., Sadaghiani, H., Valsey, J., Winicki-Landsman, G.** & Baker, S. (PUSD). Reinvigorating Elementary Science through a Partnership with California Teachers (RESPECT): Sustainable, research-based professional development with teacher leaders in a high-needs district, National Science Foundation (NSF) Math Science Partnership (MSP) program, \$7.7 million. Sept. 2013-Aug. 2018.

c. Intramural Grants (New) - Submitted in 2014.

Marshall, J. Earthquake and tsunami hazards of the Hikurangi subduction margin, North Island, New Zealand, 2014/2015 President's Research, Scholarship, and Creative Activities (RSCA) Program, \$5,000 Summer Stipend + \$5,000 UG Student Supplement. Jan. 2015-Sept. 2015. (F)

Marshall, J. Megathrust earthquake and tsunami hazards of the Hikurangi subduction margin, North Island, New Zealand, 2015 Faculty Professional Development Mini-Grant Program, \$1,000. Jan. 2015-June 2015. (F)

Marshall, J. Sustainability for undergraduate research funding: Kellogg Undergraduate Scholars. W.K. Kellogg Foundation: Kellogg Legacy Project Endowment, \$70,000. July 2014-June 2015. (F)

Marshall, J. 2014/2015 Provost's Teacher-Scholar Support Program, 8 WTU assigned time. (F)

Marshall, J. Evaluating earthquake generated coastal uplift using Holocene beachrock horizons: Nicoya Peninsula, Costa Rica, 2014 Faculty Professional Development Mini-Grant Program, \$1,000. March 2014-June 2014. (F)

Nourse, J. Interactive smart board for room 4-A-634, 2014/2015 Special Projects for Improving the Classroom Experience (SPICE) Classroom Modernization Program, \$6,949. July 2014-June 2015. (F)

Polet, J. Imaging the Los Angeles Basin with a dense seismic survey, 2014/2015 President's Research, Scholarship, and Creative Activities (RSCA) Program, \$10,000 Minigrant + UG Student Supplement. Jan. 2015-Sept. 2015. (F)

d. Intramural Grants (Ongoing) - Received prior to 2014 and continuing into or beyond 2014.

Marshall, J. Transformative undergraduate research engagement (Kellogg FuTURE Program), W.K. Kellogg Foundation: Kellogg Legacy Project Endowment, \$130,000. July 2011-June 2015.

Nourse, J. (PI), with Co-PI, **Osborn, S. G.** Groundwater flow models for 40-person geology laboratory room 4-A-634, 2013/2014 Improving the Classroom Experience (ICE) Program Awards, \$8,000. Jan. 2014-May 2014.

Osborn, S. G. Source of waters and salinity at the Dos Palmas Springs and natural preserve, 2013/2014 President's Research, Scholarship, and Creative Activities (RSCA) Program, Mini-Grant and Student Supplement totaling \$8,389. Jan. 2014-Oct. 2014.

V. Professional Awards and Honors

- Marshall, J. S.** (January 2014). National Association of Geoscience Teachers (NAGT) On the Cutting Edge Program, Exemplary Online Teaching Activity Award for “Geomorphology Drainage Basins Field Lab”, Science Education Resource Center (SERC) website.
- Marshall, J. S.** (January 2014). Online news article by A. Alden: Seismology Semantics: Researchers Successfully ‘Anticipate’ Costa Rican Earthquake: *KQED Science News*, Jan 2, 2014. <http://ww2.kqed.org/science/2014/01/02/seismology-semantics-researchers-announce-a-successful-earthquake-anticipation-in-costa-rica/>.
- Marshall, J. S.** (January 2014). Online news article by E. Velasco: “Team Successfully Forecasts Quake Strength, Location”: *PolyCentric*, Cal Poly Pomona University, Jan. 17, 2014. http://polycentric.cpp.edu/2014/01/team_successfully_predicts_quake_strength_location.
- Marshall, J. S.** (January 2014). Online news article by L. Rowan: “Anticipating and Monitoring a Large Earthquake in Costa Rica”: *UNAVCO Science Snapshots*, University NAVSTAR Consortium, Jan. 17, 2014. http://polycentric.cpp.edu/2014/01/team_successfully_predicts_quake_strength_location.
- Polet, J.** (May 2014). 2013/2014 College of Science Distinguished Teaching Award Winner, Cal Poly Pomona.
- Polet, J.** JPL's 2014 NASA Honor Awards; Award Category: Group Achievement Award; Team Name: Advanced Rapid Imaging and Analysis (ARIA) Team; Citation: For creating a state-of-the-art rapid response processing system for DGPS and imaging radar that is delivering actionable products in response to disasters.

VI. Scholarship with Students

a. Research Involving Students as Researchers

Marshall, Jeffrey:

- Alfaro-Díaz, Richard (UG, Univ. of Texas, El Paso). Activation of a secondary oblique slip fault following the September 5, 2012 Mw7.6 Nicoya Earthquake, Costa Rica.
- Brenn, Greg (UG, Union College). Earthquake relocation and focal mechanism analysis in the area of rupture following the Mw7.6 Nicoya Earthquake, Costa Rica.
- Burgi, Paula (UG, Smith College). Modeling coseismic slip of the 2012 Nicoya Peninsula Earthquake, Costa Rica: roles of megathrust geometry and surface displacement, Nicoya Peninsula, Costa Rica.
- Fasola, Shannon (UG, St. Norbert College). Analysis of aftershocks following the September 5, 2012 Mw7.6 Nicoya Earthquake, Costa Rica.
- Freimuth, Clayton (UG, Trinity University). Holocene beachrock formations of the Nicoya Peninsula, Pacific coast, Costa Rica.
- Martini, Claire (UG, Whitman College). Coastal uplift and mortality of intertidal organisms from an Mw7.6 earthquake, Nicoya Peninsula, Costa Rica.
- Morrish, Shawn (G). Digital morphotectonic analysis of drainage basins in a deforming forearc, Nicoya Peninsula, Costa Rica.
- Murillo, Anthony (UG, Universidad Nacional de Costa Rica). Premonitory seismicity before the September 5, 2012 Mw7.6 Nicoya Earthquake, Costa Rica: Relationship with mainshock rupture and aftershock zone, Nicoya Peninsula, Costa Rica.

- Olson, Elizabeth (UG, Washington & Lee University). Assessment of current radiometric dating techniques for beachrock on the Nicoya Peninsula, Costa Rica.
- Prescott, Carolyn (UG, Macalester College). Relationship between beach morphology and coseismic coastal uplift, Nicoya Peninsula, Costa Rica.
- Robinson, Melissa (G). ArcGIS mapping of uplifted late Quaternary marine terraces, Nicoya Peninsula, Costa Rica.
- Stewart, Dustin (UG). Stratigraphic architecture of an anomalous Holocene beachrock outcrop, Playa Garza, Nicoya Peninsula, Costa Rica.

Nourse, Jonathan:

- Aguirre, Fredy (G). Structural analysis of Paleoproterozoic Gneisses, Lower West Fork, San Gabriel Canyon, CA.
- Agunwah, Reggie (G). Analysis of Hogback Landslide, San Gabriel Mountains, California.
- Cheung, Herman (UG). Analysis of historic precipitation records from rain gauge 619, San Antonio Canyon, CA
- Craig, Kenneth (UG). Geochemical analysis of graphite deposits, San Gabriel Mountains, California.
- Davila, Gustavo (UG). Geological mapping of pelona schist on near Guffy campground, San Gabriel Mountains, CA
- Dillroughy, Brendan (UG). Source of fluids in saline springs, Towsley Canyon.
- Heyer, Gabriel (UG). Water quality of Santa Anita Canyon watershed.
- Kunath, Debbie (G). Source of fluids in springs and oil seeps Santa Susanna, California.
- Lenhert, Lucas (UG). Hydrogeology of Evey Canyon, San Gabriel Mountains, California.
- Loukeh, Jake (UG). Source of fluids and salinity at Dos Plamas Nature Preserve.
- Maldonado, Jeanette (UG). Hydrogeology of Evey Canyon, San Gabriel Mountains, California.
- Marshak, Jon (G). Structural and GIS analysis of middle Miocene mafic-intermediate dike swarm in the San Gabriel Mountains, California.

Osborn, Stephen:

- Cartwright-Robles, Taylor (UG). Trace metal analyses spring discharge near abandoned mining operations, San Gabriel Mountains.
- Clark, Wendy (UG). Effect of El Nino on blocking fronts, southern California.
- Edgley, Ryan (UG). Use of GIS to delineate estuaries, Connecticut.
- Ellis, Rob (G). Source of fluids in shallow aquifers of the Williston Basin, North Dakota and Montana.
- Garcia, Kevin (G). Source of fluids and salinity at Dos Palmas Springs and Natural Preserve.
- Marrietti, Jenna (UG). Water quality of waters discharging from oil seeps, Towsley Canyon, California.
- Park, Joshua (G). Dissolved gases in shallow groundwater near oil/gas production in Weld County, Colorado.
- Sargent, Joshua (G). Salinity of shallow groundwater in the Denver-Julesburg basin.
- Seese, Lisa (UG). Water quality of Big Tujunga Creek.
- Soto, Paula (UG). Hydrologic and geochemical comparison of Evey Canyon and Icehouse Canyon Watersheds, San Gabriel Mountains, California.

Tafoya, Chris (UG). Investigation of high nitrate, Winter Creek Canyon, San Gabriel Mountains.
Thomas, Patrick (UG). Water quality of Colorado flood waters.
Wenceslao, L. (UG). Identification of beachrocks in the Nicoya Peninsula of Costa Rica.
Wlodarczyk, Max (G). Source of dissolved gas in a shallow coal bearing aquifer, Raton Basin, Colorado.
Wolfe, O. M. (UG). Field studies and mineralogy of the pelona schist in Blue Ridge, San Gabriel Mountains, California.
Wright, Kyle (G). Evaluation of high nitrate in springs discharging at the base of the San Gabriel Mountains.
Yerkes, Tamara (G). Pience Basin groundwater quality.

Polet, Jascha:

Baca, Austin (UG). Deep crustal faulting within the Indian Ocean; and depths of interplate earthquakes in the Indian Ocean from waveform modeling.
Barba, Magali (G). Postseismic deformation after Mojave earthquakes.
Chantrapornlert, Kevin (G). Resistivity profiles across the San Jose Fault.
Cheiffetz, Terry (G). Geophysical investigation of the Hollywood Fault zone.
Curry, Brittany (UG). Geophysics of lone star geyser.
DelaRosa, Angel (UG). Site response near the Hollywood Fault (Hollywood area).
Hatch, Rachel (UG). Dynamic triggering of earthquakes in southern California.
Herrman, Michael (G). Los Angeles Basin velocity models.
Ho, Kennis (G). Amplification and resonance frequency of CPP campus.
Leiva, Julie (G). A new tsunami magnitude scale.
Levario, Jonathan (UG). Relocated earthquakes from a seismic deployment in the San Gabriel Mountains.
Mejia, Hannah (G). Improved depths for Kuril outer rise earthquakes.
Ng, Ray (G). Site response across the LA Basin.
Nget, David (UG). Earthquakes detected by a seismic deployment in the San Gabriel Mountains.
Nguyen, Rosa (G). Strain partitioning in global subduction zones.
Pastrana, Nahtaly (UG). Site response near the Hollywood Fault (Griffith Park area).
Pazos, Celia (G). Results from a seismic deployment in the San Gabriel Mountains.
Quimpo, Stephen (G). Revisiting bath's aftershock law.
Schroeder, Sean (UG). Site response near the CLA building.
Thomas, Malcolm (G, CSUSB). Site response mapping of CSUSB campus.
Zhan, Dandan (G). Geophysical investigation of the Ventura fault.

b. Awards and Honors Earned by Students (as a result of faculty work with them).

Baca, Austin (UG). AY 2014/2015. NSF S-STEM Scholarship (mentor: Polet, J.)
Baca, Austin (UG). January 2014. Kellogg Undergraduate Scholars Program (KUSP) Scholarship (mentor: Polet, J.)

Baca, Austin (UG). December 2014. President's Special Travel Fund Award to present research at the Fall American Geophysical Union meeting (mentor: Polet, J.)

Barba, Magali (G). Summer 2014. Selected to sail on Cascadia Initiative (CI) Expedition (mentor: Polet, J.)

Barba, Magali (G). 2014. SSA Student Travel Grant (mentor: Marshall, J.)

Cheiffetz, Terry (G). Summer 2014. Selected to sail on Cascadia Initiative (CI) Expedition (mentor: Polet, J.)

Edgely, Ryan, Taylor (UG). April 2014. Margaret Van Buskirk Scholarship Award recipient (mentor: Nourse, J.)

Hatch, Rachel (UG). 2014/2015. Selected to participate in SIRI JPL Research Program (mentor: Polet, J.)

Hatch, Rachel (UG). April 2014. Henderson-Valles Scholarship Award recipient (mentor: Nourse, J.)

Hatch, Rachel (UG). Summer 2014. Accepted to attend IRIS-EarthScope USArray Data Processing and Analysis Introductory Short Course in Evanston, Illinois with full financial support (mentor: Polet, J.)

Hernandez, Debbie (UG). 2014/2015. Selected to participate in SIRI JPL Research Program (mentor: Polet, J.)

Kang, Jamie (UG). 2014/2015. Selected to participate in SIRI JPL Research Program (mentor: Polet, J.)

Kwong, Kevin (UG). 2014. Accepted into PhD program of Southern Methodist University (mentor: Polet, J.)

Lenhert, Lucas (UG). April 2014. Ernest Prete Junior Scholarship Award recipient (mentor: Nourse, J.)

Marietti, Jenna (UG). April 2014. Grayce M. Teale Scholarship Award recipient (mentors: Nourse, J. & Osborn, S.)

Meijia, Hannah (G). 2014. Accepted into PhD program of Baylor University (mentor: Polet, J.)

Mundo, Alejandro (UG). April 2014. Peter Valles AGI Glossary Award recipient (mentor: Nourse, J.)

Santos, Ryan (UG). April 2014. Peter Valles Rock Hammer Award recipient (mentor: Nourse, J.)

Seese, Lisa (UG). April 2014. Peter Valles Rock Hammer Award recipient (mentor: Nourse, J.)

Thomas, Patrick (UG). April 2014. Henderson-Valles Scholarship Award recipient (mentors: Nourse, J. & Osborn, S.)

Vadman, Michael (G). April 2014. Randal Burns Brunton Compass Award recipient (mentor: Nourse, J.)

Wolfe, Oliver (UG). June 2014. Commencement 2014 Geological Sciences Banner Carrier, Cal Poly Pomona (mentor: Nourse, J.)