

## Education

- 2014 Ph.D. **Geography, University of California, Santa Barbara & San Diego State University**  
Dissertation Title: Regional Streamflow Response to Wildfire in California Watersheds
- 2008 M.S. **Geography, San Diego State University**  
Emphasis in Watershed Science
- 2001 B.S. **Genetics, University of California, Davis**  
High Honors

## Professional Experience

- 2015- **Postdoctoral Scholar**, Earth Research Institute, University of California, Santa Barbara
- 2014-2015 **Postdoctoral Scholar**, Department of Environmental Science, Policy and Management, University of California, Berkeley
- 2007-2012 **Teaching Associate**, Department of Geography, San Diego State University, San Diego, California
- 2005-2007 **Graduate Assistant**, Department of Geography, San Diego State University, San Diego, California
- 2001-2005 **Marketing/Accounting**, E-Babylon, Inc. Simi Valley, California

## Publications

### In-Review

**Bart R**, Tague C, Dennison P. Modeling annual grassland phenology in California. *Ecological Modelling*.

**Bart R**, Tague C, Moritz M. Effect of tree-to-shrub type conversion in lower montane forests of the Sierra Nevada on streamflow. *PLOS ONE*.

### In-Print

- 2016 **Bart R**. A regional estimate of postfire streamflow change in California. *Water Resources Research*, 52, 1465-1478.
- 2014 **Bart R**, Hope A. Inter-seasonal variability in baseflow recession curves: The role of antecedent storage in central California watersheds. *Journal of Hydrology*, 519, 205-213.

- 2012 Hope A, **Bart R**. Synthetic monthly flow duration curves for the Cape Floristic Region, South Africa. *Water SA*, 38(2), 191-200.
- 2012 Hope A, **Bart R**. Evaluation of a regionalization approach for daily flow duration curves in central and southern California watersheds. *Journal of the American Water Resources Association (JAWRA)*, 48(1), 123-133.
- 2012 Hope A, Albers N, **Bart R**. Characterizing post-fire recovery of fynbos vegetation in the Western Cape Region of South Africa using MODIS data. *International Journal of Remote Sensing*, 33(4), 979-999.
- 2010 **Bart R**, Hope A. Streamflow response to fire in large catchments of a Mediterranean-climate region using paired-catchment experiments. *Journal of Hydrology*, 388, 370-378.

## Presentations

### Professional Conferences

- 2016 Tague C, Moritz M, **Bart R**, Turpin E. Seeing the water in the trees: Challenges in estimating the impact of fuel treatments and fire on hydrology. *CUAHSI Biennial Symposium*. Shepherdstown, West Virginia. July 2016.
- 2015 **Bart R**, Anderson S, Moritz M, Plantinga A, Tague C. An Integrated Model for Identifying Linkages Between the Management of Fuel Treatments, Fire and Ecosystem Services. *American Geophysical Union Fall Meeting*. San Francisco, California. December 2015.
- 2015 Tague C, Moritz M, **Bart R**, Hanan E, Choate J, Kennedy M. Modeling the complex interactions among wildfire, fuel treatments and hydrology. *10th EARSeL Forest Fire Special Interest Group Workshop*. Limassol, Cyprus. November 2015.
- 2014 Baguskas S, **Bart R**, Molinari N, Tague C, Moritz M. Potential effects of tree-to-shrub type conversion on streamflow in California's Sierra Nevada. *American Geophysical Union Fall Meeting*. San Francisco, California. December 2014.
- 2014 **Bart R**. A Regional-Scale Estimate of Annual Streamflow Response to Fire in California. *American Geophysical Union Fall Meeting*. San Francisco, California. December 2014.
- 2014 Baguskas S, **Bart R**, Molinari N, Tague C, Moritz M. Potential effects of tree-to-shrub type conversion on streamflow in California's Sierra Nevada. *Critical Zone Observatory (CZO) All Hands Meeting*. Fish Camp, California. September 2014.
- 2013 **Bart R**. A Mixed Modeling Approach for Combining Post-Fire Streamflow and Erosion Change Results. *AGU Chapman Conference on Synthesizing Empirical Results to Improve Predictions of Post-wildfire Runoff and Erosion Response*. Estes Park, Colorado. August 2013.

- 2013 **Bart R.** Fire effects on river flow recession rates in central California watersheds. *Association of American Geographers Annual Meeting*. Los Angeles, California. April 2013.
- 2012 **Bart R.**, Hope A. Effects of antecedent storage on inter-seasonal recession curve variability. *American Geophysical Union Fall Meeting*. San Francisco, California. December 2012.
- 2012 Hope A, **Bart R.** Hydrologic significance of vegetation in Mediterranean-type climate regions. *International Journal of Arts & Sciences Annual Conference*. Aix-En-Provence, France. May 2012.
- 2012 **Bart R.**, Hope A. Seasonal controls on streamflow recession curves in southern California. *Association of American Geographers Annual Meeting*. New York, New York. February 2012.
- 2011 **Bart R.**, Hope A. Application of a meta-analytic technique for assessing the effects of fire on river flows in southern California. *Association of American Geographers Annual Meeting*. Seattle, Washington. April 2011.
- 2011 **Bart R.** Meta-analysis in hydrology: an application for land-cover change experiments. *San Diego State University Student Research Symposium*, San Diego, California. March 2011.
- 2010 Hawtree D, Hope A, **Bart R.** A comparison of IHACRES ensemble streamflow predictions in California's Mediterranean climate region. *European Geosciences Union General Assembly*, Vienna, Austria. May 2010.
- 2010 Hope A, Albers N, **Bart R.** Monitoring post-fire recovery of shrublands in Mediterranean-type ecosystems using MODIS and TM/ETM+ data. *European Geosciences Union General Assembly*, Vienna, Austria. May 2010.
- 2009 Hope A, **Bart R.**, Albers N, Stow D. Resilience of Watershed Response to Land Cover/ Land Use Change in Mediterranean Climate Regions. *Association of Pacific Coast Geographers Annual Meeting*, San Diego, California. October 2009.
- 2009 Hope A, **Bart R.**, Fitch D, Hawtree D, Burvall A, Albers N, Stow D. Effects of Land-Cover Variability on River Flows in Mediterranean-Type Ecosystems. *HydroEco' 2009 Conference*, Vienna, Austria. April 2009.
- 2008 **Bart R.**, Hope A, Hawtree D. Application of Existing Streamflow Gauge Networks and Remote Sensing for Use in Paired Watershed Experiments. *American Geophysical Union Fall Meeting*. San Francisco, California. December 2008.
- 2008 **Bart R.** From Process Models to Paired Catchments. *Workshop on Prediction of River Flow in Ungauged Catchments and Response to Land-Cover Land-Use Change in Mediterranean Climate Regions*, Stellenbosch, South Africa. March 2008.

- 2007 **Bart R**, Hope A. Impact of Fire on Streamflow in Southern California Watersheds. *American Geophysical Union Fall Meeting*. San Francisco, California. December 2007.
- 2007 Hope A, Burvall A, Hawtree D, Clark R, **Bart R**. Partitioning river flow data to better understand and characterize uncertainties in hydrological modelling. *International Union of Geodesy and Geophysics Conference*. Perugia, Italy. July 2007.

### Invited Colloquia

- 2015 **Bart R**. River Flow Response to Fire in California. SDSU Geography Department Colloquia Series, San Diego, California. April 2015.
- 2015 **Bart R**. Investigating the Effect of Type-Conversion on Streamflow in the Sierra Nevada. UCSB Biogeosciences (BGS) Seminar Series, Santa Barbara, California. April 2015.
- 2008 **Bart R**. From Process Models to Paired Catchments. ARC-ISCW Hydrology Seminar, Agricultural Research Council, Pretoria, South Africa. March 2008.

### Awards

- 2013 AGU Chapman Conference Travel Grant (\$940)
- 2013 Water Resources Specialty Group Student Travel Grant (\$300)
- 2012 McFarland Geography Scholarship (\$5030)
- 2012 Norma Sullivan Memorial Endowed Scholarship (\$800)
- 2012 Associated Students Graduate Student Travel Scholarship (\$380)
- 2011 McFarland Geography Scholarship (\$4200)
- 2007 Ned H. Greenwood Award (\$500)
- 2006 Alvena Storm Memorial Scholarship (\$750)

### Courses Taught

*Physical Geography*, Mesa College

*Elements of Physical Geography*, Cuyamaca College

*Introduction to Geography: Physical Elements*, Southwestern College

*Water Resources*, San Diego State University

*Global Climate Change*, San Diego State University (Substitute instructor for three weeks)

## Manuscript Reviews

*AGU Books*

*Ecohydrology*

*Journal of Hydrology*

## Professional Affiliations

American Geophysical Union

Association of American Geographers