

## Education

- 2014 Ph.D. Geography, University of California, Santa Barbara & San Diego State University  
2008 M.S. Geography, San Diego State University  
2001 B.S. Genetics, University of California, Davis

## 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  
2005-2007 Graduate Assistant, Department of Geography, San Diego State University  
2001-2005 Marketing/Accounting, E-Babylon, Inc. Simi Valley, California

## Publications

### In-Print

8. **Bart RR**, Tague CL. In-Press. The impact of wildfire on baseflow recession rates in California. *Hydrological Processes*, 31, 1662-1673.
7. **Bart RR**, Tague CL, Moritz MA. 2016. Effect of tree-to-shrub type conversion in lower montane forests of the Sierra Nevada (USA) on streamflow. *PLOS ONE*, 11(8): e0161805.
6. **Bart RR**. 2016. A regional estimate of postfire streamflow change in California. *Water Resources Research*, 52, 1465-1478.
5. **Bart RR**, Hope AS. 2014. Inter-seasonal variability in baseflow recession curves: The role of aquifer antecedent storage in central California watersheds. *Journal of Hydrology*, 519, 205-213.
4. Hope AS, **Bart RR**. 2012. Synthetic monthly flow duration curves for the Cape Floristic Region, South Africa. *Water SA*, 38(2), 191-200.
3. Hope AS, **Bart RR**. 2012. 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.
2. Hope AS, Albers N, **Bart RR**. 2012. 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.
1. **Bart RR**, Hope AS. 2010. Streamflow response to fire in large catchments of a Mediterranean-climate region using paired-catchment experiments. *Journal of Hydrology*, 388, 370-378.

### In-Revision

- Bart RR**, Tague CL, Dennison PE. Modeling annual grassland phenology along the central coast of California. *Ecosphere*.

## Teaching

### Instructor (number of sections in parentheses)

- 2014 GEOG 101 Physical Geography, Mesa College (2)
- 2014 GEOG 120 Elements of Physical Geography, Cuyamaca College (1)
- 2012 GEOG 100 Introduction to Geography: Physical Elements, Southwestern College (1)
- 2010, 2011 GEOG 574 Water Resources, San Diego State University (2)

### Guest Class Lectures

- 2016 ESM 237 Climate Change Impacts and Adaptation, UCSB
- 2015 ESM 232 Environmental Modeling, UCSB
- 2011 GEOG 409 Global Climate Change, SDSU
- 2007, 2012 GEOG 511 Hydrology and Global Environmental Change, SDSU

## Awards

- 2012 McFarland Geography Scholarship (\$5030)
- 2012 Norma Sullivan Memorial Endowed Scholarship (\$800)
- 2011 McFarland Geography Scholarship (\$4200)
- 2007 Ned H. Greenwood Award (\$500)
- 2006 Alvena Storm Memorial Scholarship (\$750)

## Presentations

### Professional Conferences

- 2017 Tague CL, Moritz MA, **Bart RR**, Hanan EJ. Why subsurface features matter for managing forests, water and fire in the face of increasing drought frequency and severity. *AGU Chapman Conference on Extreme Climate Event Impacts on Aquatic Biogeochemical Cycles and Fluxes*. San Juan, Puerto Rico. January 2017.
- 2016 **Bart RR**, Tague C, Kennedy M, McKenzie D. Integrating fire effects into an ecohydrologic model for simulating fire regimes. *American Geophysical Union Fall Meeting*. San Francisco, California. December 2016.
- 2016 Kennedy M, McKenzie D, Tague C, **Bart RR**. Ecohydrological projections of fire regimes: Balancing uncertainty and complexity to integrate cross-disciplinary simulation systems. *American Geophysical Union Fall Meeting*. San Francisco, California. December 2016.
- 2016 Tague C, Moritz M, **Bart RR**, 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 RR**, 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 RR**, 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 RR**, 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 RR**. 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 RR**, 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 RR**. 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 RR**. Fire effects on river flow recession rates in central California watersheds. *Association of American Geographers Annual Meeting*. Los Angeles, California. April 2013.
- 2012 **Bart RR**, 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 RR**. Hydrologic significance of vegetation in Mediterranean-type climate regions. *International Journal of Arts & Sciences Annual Conference*. Aix-En-Provence, France. May 2012.
- 2012 **Bart RR**, 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 RR**, 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 RR**. 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 RR**. 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 RR**. 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 RR**, 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 RR**, 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 RR**, 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 RR**. 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 RR**, 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 RR**. 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 RR.** River Flow Response to Fire in California. SDSU Geography Department Colloquia Series, San Diego, California. April 2015.
- 2015 **Bart RR.** Investigating the Effect of Type-Conversion on Streamflow in the Sierra Nevada. UCSB Biogeosciences (BGS) Seminar Series, Santa Barbara, California. April 2015.
- 2008 **Bart RR.** From Process Models to Paired Catchments. ARC-ISCW Hydrology Seminar, Agricultural Research Council, Pretoria, South Africa. March 2008.

### Manuscript Referee

AGU Geophysical Monograph Series

Ecohydrology

Ecological Processes

Hydrological Processes

Journal of Hydrology

Water Resources Research

### Professional Affiliations

American Geophysical Union

Association of American Geographers