Ryan R. Bart

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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

<u>Professional Conferences</u>

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.

<u>Invited Colloquia</u>

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