

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-Review

Anderson SE, **Bart RR**, Kennedy MC, MacDonald AJ, Moritz MA, Plantinga AJ, Tague CL, Wibbenmeyer M. Salience-driven Responses to Climate Change and their Consequences for (Mal)Adaptation. *Proceedings of the National Academy of Sciences*.

In-Print

9. **Bart RR**, Tague CL, Dennison PE. 2017. Modeling annual grassland phenology along the central coast of California. *Ecosphere*, 8(7):e01875.
8. **Bart RR**, Tague CL. 2017. 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.

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	Bart RR , Tague C, Kennedy M, Hanan E. A Coupled Model for Simulating Future Wildfire Regimes in the Western U.S. <i>American Geophysical Union Fall Meeting</i> . New Orleans, Louisiana. December 2017.
2017	Hanan E, Tague C, Bart RR , Kennedy M, Abatzoglou J, Kolden C, Adam J. Effects of fire suppression under a changing climate in Pacific Northwest mixed-pine forests. <i>American Geophysical Union Fall Meeting</i> . New Orleans, Louisiana. December 2017.
2017	Tague CL, Burke W, Bart RR , Turpin E, Wood T, Gordon D. Communicating why land surface heterogeneity matters. <i>American Geophysical Union Fall Meeting</i> . New Orleans, Louisiana. December 2017.
2017	Bart RR , Tague C, Kennedy M, Hanan E. Development of a coupled model for investigating the effects of climate and forest management on wildfire regimes in the western U.S. <i>Columbia University Initiative on Extreme Weather and Climate: Fire Prediction Across Scale</i> . New York, New York. October 2017.
2017	Hanan E, Tague C, Bart RR , Kennedy M, Kolden C, Abatzoglou J, Adam J. Factors driving fire spread under a changing climate in Pacific Northwest mixed-pine forests. <i>Columbia University Initiative on Extreme Weather and Climate: Fire Prediction Across Scale</i> . New York, New York. October 2017.
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. <i>AGU Chapman Conference on Extreme Climate Event Impacts on Aquatic Biogeochemical Cycles and Fluxes</i> . 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. <i>American Geophysical Union Fall Meeting</i> . 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 Reviewer

AGU Geophysical Monograph Series
 Ecohydrology
 Ecological Processes
 Hydrological Processes
 Journal of the American Water Resources Association
 Journal of Hydrology (3)
 Nature Communications
 Science
 Water Resources Research (2)
 Water

Professional Affiliations

American Geophysical Union
 Association of American Geographers