

James S. (Jay) Famiglietti
Professor and Senior Water Scientist
<http://jayfamiglietti.com>

NASA Jet Propulsion Laboratory
California Institute of Technology
4800 Oak Grove Drive, M/S 300-329
Pasadena, CA 91109-8099
Office: (626) 755-7661
james.famiglietti@jpl.nasa.gov
science.jpl.nasa.gov/people/famiglietti/

Department of Earth System Science
University of California, Irvine
240K Rowland Hall
Irvine, CA 92697-3100
Office: (949) 824-9434
jfamigli@uci.edu
www.ess.uci.edu/people/jfamigli

Education:

1992	Ph.D.	Princeton University, Civil Engineering (Water Resources Program)
1988	M.A.	Princeton University, Civil Engineering (Water Resources Program)
1986	M.S.	University of Arizona, Hydrology
1982	B.S.	Tufts University, Geology

Professional Appointments:

University of California, Los Angeles, Department of Civil and Environmental Engineering

2015-present Visiting Professor

NASA Jet Propulsion Laboratory, California Institute of Technology

2014-present Senior Water Cycle Scientist

California State Water Boards, Appointed by California Governor Jerry Brown

2013-2017 Member, Region 8

Stanford University, Department of Civil and Environmental Engineering

2010 Shimizu Visiting Professorship, Winter Quarter

University of California, Irvine, Department of Earth System Science and Department of Civil and Environmental Engineering

2006-present Professor (Leave of Absence, July 1, 2014 – June 30, 2016)

2001-2006 Associate Professor

University of Texas at Austin, Department of Geological Sciences

2000-2001 Associate Professor

1994-2000 Assistant Professor

National Center for Atmospheric Research, Climate and Global Dynamics Division

1994-1995 Visiting Scientist (Summers)

1993 Postdoctoral Research Fellow, Climate System Modeling Program

Princeton University, Department of Civil Engineering and Operations Research

1992-1993 Visiting Postdoctoral Fellow

Leadership Positions:

NASA Jet Propulsion Laboratory, California Institute of Technology

2015-present Project Scientist, Western States Water Mission

2015-present Group Supervisor, Surface Hydrology Group

2014-present JPL Water Initiative Leader

Consortium of Universities for the Advancement of Hydrologic Sciences, Inc. (CUAHSI)

2008-2010 Chair, Board of Directors (Elected)

University of California, Irvine

2009-2014 Founding Director, University of California Center for Hydrologic Modeling, <http://ucchm.org>

2008-2009 Director, Institute of Geophysics and Planetary Physics, UC Irvine Branch

2003-2006 Vice Chair for Graduate Studies, Department of Earth System Science

University of Texas at Austin, Department of Geological Sciences

2001 Founding Associate Director, Environmental Science Institute

Editorial:

Proceedings of the National Academy of Sciences

2014 Guest Editor

American Geophysical Union

2005-2009 Editor-in-Chief, *Geophysical Research Letters*

2001-2004 Editor, Hydrology and Land Surface Processes, *Geophysical Research Letters*

1997-2001 Associate Editor, *Water Resources Research*

Board Service:

Blue Legacy

2012-present Advisory Board

Consortium of Universities for the Advancement of Hydrologic Sciences, Inc. (CUAHSI)

2011 Board of Directors (elected)

2005-2010 Executive Committee, Board of Directors (elected)

Awards, Honors and Recognition:

2015 Special Lecture, Global Environmental Change Focus Group, American Geophysical Union Fall Meeting 2015

2014 Orange County's 100 Most Influential People of 2014, Orange County Register

Invited cover, Science Magazine, September 26, 2014

Fellow, Geological Society of America

David Keith Todd Distinguished Lecturer, Groundwater Resources Association of California

Editor's Choice, Science Magazine, for Castle et al., 2014, August 14, 2014

2013 Editor's Choice Award, Water Resources Research, for Voss et al., 2013

2012 Fellow, American Geophysical Union

Birdsall-Dreiss Distinguished Lecturer, Geological Society of America

	Action Figure, Circle of Blue
2010	Top 10 Earth Science stories of 2010, Science News, for Syed et al., 2010, PNAS
2005	Outstanding Contributions to Undergraduate Education University of California, Irvine
1998	Dean's Fellow, University of Texas at Austin
1996	NASA New Investigator Award
1996	Achievement Award for New Scholars, Conference of Southern Graduate Schools
	NSF Presidential Faculty Fellow Finalist
1992-1993	UCAR Climate System Modeling Program Postdoctoral Fellowship

Publications:

Op-Eds

- Famiglietti, J. and M. Lubber, Food industry needs to step up on responsible groundwater use, San Francisco Chronicle, August 24, 2015
- Famiglietti, J., Up a Dry Creek, Los Angeles Times, March 12, 2015
- Famiglietti, J., How much water does California have left, Los Angeles Times, July 9, 2014
- Famiglietti, J., Just how bad is California's epic drought, Takepart.com, February 22, 2014
- Famiglietti, J. and S. Richey, California's water house of cards, Los Angeles Times, September 23, 2013

Selected Blog Posts

- Famiglietti, J., How the West was Lost, National Geographic Water Currents, July 24, 2014
- Famiglietti, J., Coping with California's Water Future will Require a Sea Change in Perspective, Huffington Post, April 7, 2014
- Famiglietti, J., Epic California Drought and Groundwater: Where Do We Go From Here, National Geographic Water Currents, February 4, 2014
- Famiglietti, J., Water and the Roots of Violent Conflict in Syria, Huffington Post, September 7, 2013
- Famiglietti, J., Weighty Water Matters in the Middle East, National Geographic Water Currents, February 22, 2013
- Famiglietti, J., Wanted: Vision and Leadership to Ensure a Sustainable Water Future for America, National Geographic Water Currents, July 2, 2012
- Famiglietti, J., Rallying Around Our Known Unknowns: What We Don't Know Will Hurt Us, Water 50/50, June 28, 2012
- Famiglietti, J., Spin Cycle: Will Changing Global Hydrology Throw the Geopolitical Machine Off-Balance? Water 50/50, November 22, 2011

Book Chapters

2015

- Lo, M.-H., J. Famiglietti, J. T. Reager, M. Rodell, S. Swenson, and W.-Y. Wu, GRACE-based Estimates of Global Groundwater Depletion, in *Terrestrial Water Cycle and Climate Change: Natural and Human-Induced Impacts*, AGU Geophysical Monograph Series, to appear

Rodell, M., V. Lakshmi, H. Kato-Beaudoing, C. D. Peters-Lidard, J. S. Famiglietti, and R. D. Koster, Large-Scale and Global Hydrology, Chapter 88 in *Handbook of Hydrology*, D. R. Maidment, ed., McGraw-Hill, to appear.

2013

Gleick, P. H., H. Cooley, J. S. Famiglietti, D. P. Lettenmaier, T. Oki, C. J. Vörösmarty and E. Wood, Improving Understanding of the Global Hydrologic Cycle, in *Climate Science for Serving Society: Research, Modeling and Prediction Priorities*, G. R. Asrar and J. W. Hurrell, eds., Springer Science + Business Media Dordrecht, pp151-184.

2012

Swenson, S. and J. Famiglietti, Sustainable Groundwater Management for Large Aquifer Systems: Tracking Depletion Rates from Space, in *Climate Change Effects on Water Resources: A Global Synthesis of Findings and Recommendations*, H. Treidel, J.L. Martin-Bordes, and J.J. Gurdak, eds., Taylor and Francis Group, CRC Press, pp367-374.

2011

Famiglietti, J., The global water challenge as seen from space, in *Focusing on Performance: Global Water Summit 2011*, Global Water Intelligence, pp. 12-21.

2010

Milly, P.C.D., A. Cazenave, J. S. Famiglietti, V. Gornitz, K. Laval, D. P. Lettenmaier, D. L. Sahagian, J. M. Wahr and C. R. Wilson, Terrestrial Water-Storage Contributions to Sea-Level Rise and Variability, in *Understanding Sea-Level Rise and Variability*, 1st Edition, J. A. Church, P. L. Woodworth, T. Aarup and W. S. Wilson, eds., Blackwell Publishing, Ltd., pp. 226-255.

2004

Famiglietti, J. S., Remote Sensing of Terrestrial Water Storage, Soil Moisture and Surface Waters, in *The State of the Planet: Frontiers and Challenges in Geophysics*, Geophysical Monograph Series, Volume 150, R. S. J. Sparks and C. J. Hawkesworth, eds., pp197-207.

2001

Mohr, K. I., J. S. Famiglietti and A. Boone, The Effect of Field-Scale Sub-Grid Variability of Soil Moisture on the Simulation of Soil Moisture and Heat Fluxes for a Mesoscale Watershed: A Case Study from the Southern Great Plains 1997 Hydrology Experiment, in *Observations and Modeling of the Land Surface Hydrological Processes*, American Geophysical Union, Water Science and Applications 3, V. Lakshmi, J. Albertson and J. Schaake, eds, pp161-176.

1995

Famiglietti, J. S., B. H. Braswell, and F. Giorgi, Process Controls and Similarity in the U. S. Continental-Scale Hydrological Cycle from EOF Analysis of Regional Climate Model Simulations, in *Scale Issues in Hydrological Modeling*, J. D. Kalma and M. Sivapalan, eds., Wiley, 504 pp.

1991

Famiglietti, J. S. and E. F. Wood, Evapotranspiration and Runoff from Large Land Areas: Land Surface Hydrology for Atmospheric General Circulation Models, in *Land Surface-Atmosphere Interactions for Climate Models: Observations, Models and Analyses*, E. F. Wood, ed., Springer, The Netherlands, pp. 179-204, doi:10.1007/978-94-009-2155-9_9

Peer-Reviewed Articles

Web of Science (formerly ISI): Famiglietti J*

Google Scholar: Famiglietti JS

In preparation:

Chandanpurkar, H. A., J. T. Reager, J. S. Famiglietti, D. P. Chambers and T. H. Syed, Global freshwater discharge to the oceans from nearly two decades of ocean satellite observation, *Geophys. Res. Lett.*

David, C. H. and J. S. Famiglietti, A decade of RAPID: Reflections on the development of an open-source geoscience model, *Earth and Space Sciences*

Famiglietti, J., *Groundwater Depletion*, *Sci. Am.*

Kim, H., S. Kim, J.-Y. Yu and J. S. Famiglietti, The Changing Nature of Amazon Drought

Lawrence, C.B., C. H. David, J.T. Reager, A. Gardner and J. S. Famiglietti, The Melting Water Towers and their Impact on Himalayan River Flow

Liu, Z., C. H. David, H. Kim, G. Goteti and J. S. Famiglietti, A National-Scale, Catchment-Based Land Surface Modeling Framework with an Explicit Representation of River Network Dynamics

Nanteza, J., C. R. de Linage, B. F. Thomas, and J. S. Famiglietti, Monitoring groundwater storage changes over basement aquifers: An evaluation of GRACE over East Africa

Reager, J. T., J. S. Famiglietti, D. P. Chambers and M. H. Lo, Mass Changes in Earth's Global Water Reservoirs as Indicators of Water Cycle Change

Reager, J. T., E. Swails, J. T. Randerson, D. Lawrence and J. S. Famiglietti, Assessing Links Between Water and Carbon Storage in Indonesian Peatlands Using Data from the Gravity Recovery and Climate Experiment

Thomas, B. F., J. S. Famiglietti, J. T. Reager, S. L. Castle, F. Landerer and M. Rodell, The Epic California Drought as Viewed from Space, *Geophys. Res. Lett.*

In review, discussion or revision:

Castle, S. L., J. T. Reager, B. F. Thomas, A. J. Purdy, M.-H. Lo, J. S. Famiglietti and Q. Tang, Remote detection of water management impacts on evapotranspiration in the Colorado River Basin, in revision, *Geophys. Res. Lett.*

Reager, J. T., A. Gardner, J. S. Famiglietti, M.-H. Lo and David Wiese, A decade of sea level rise slowed by climate-driven land water storage, in revision, *Science*

Reager, J. T., A. C. Thomas, E. A. Sproles, M. Rodell, H. K. Beaudoin, B.-L. Li and J. S. Famiglietti, Assimilation of GRACE terrestrial water storage observations into a land surface model for the assessment of regional flood potential, in review, *Remote Sensing*.

Sinha, D., T. H. Syed, J. T. Reager, A. Thomas and J. S. Famiglietti, Characterizing Hydrological Drought in India Using GRACE Observations of Total Water Storage Deficit, in review, *Wat. Resour. Res.*

Solander, K. C., J. T. Reager and J. S. Famiglietti, How well will the Surface Water and Ocean Topography (SWOT) mission observe global reservoirs? In review, *Wat. Resour. Res.*
Solander, K. C., J. T. Reager, B. F. Thomas, C. H. David and J. S. Famiglietti, Simulating the human operator: the development of an optimal complexity, climate change-adaptive reservoir management model for a GCM, in review, *J. Hydrometeorology*
Wada, Y., M.-H. Lo, J. T. Reager, J. S. Famiglietti and S. C. Swenson, Some perspective on the contribution of groundwater depletion to global mean sea level rise, in revision, *Nature Climate Change*

Published:

2015

- Anderson, R. G., M.-H. Lo, S. Swenson, J. S. Famiglietti, Q. Tang, T. H. Skaggs, Y.-H. Lin and R.-J. Lin, Using satellite-based estimates of evapotranspiration and groundwater changes to determine anthropogenic water fluxes in land surface models, *Geosci. Model Dev.*, 3565-3592, doi:10.5194/gmdd-8-3565-2015.
- Bierkens, M., V. Bell, P. Burek, N. Chaney, L. Condon, C. David, P. Doell, N. Droest, J. Famiglietti, M. Florke, D. Gochis, P. Houser, R. Hut, J. Keune, S. Kollett, R. Maxwell, J. Reager, L. Samaniego, E. Sudicky, E. Sutanujaja, N. van de Giesen, H. Winsemius, E. Wood, Hyper-Resolution global hydrological modelling: what is next? “Everywhere and Locally Relevant,” *Hydrological Processes*, 29(2), 310-320.
- Billah, M. M., J. L. Goodall, U. Narayan, J. T. Reager, V. Lakshmi, and J. S. Famiglietti, A methodology for evaluating evapotranspiration estimates at the watershed scale using GRACE, *J Hydrol*, 523, 574-586.
- Chen, J., J. S. Famiglietti, M. Rodell and B. Scanlon, Groundwater storage changes: Present status from GRACE observations, *Surv. Geophys.*, DOI 10.1007/s10712-015-9332-4.
- David, C. H., J. S. Famiglietti, Z.L. Yang and V. Eijkkhout, Enhanced fixed-size parallel speedup with the Muskingum method using a trans-boundary approach and a large subbasins approximation, *Water Resour. Res.*, DOI: 10.1002/2014WR016650
- Famiglietti, J. S., A. Cazenave, A. Eicker, J. T. Reager, M. Rodell, I. Velicogna, Satellites Provide the Big Picture, *Science*, 14 August, 349(6249), 684-685, DOI: 10.1126/science.aac9238
- Kim, B., B. F. Sanders, J. S. Famiglietti and V. Guinot, Urban flood modeling with porous shallow-water equations: a case study of model errors in the presence of anisotropic porosity, *J. Hydrol.*, 523, 680-692.
- L'Ecuyer, T. S., H. K. Beaudoin, M. Rodell, W. Olson, B. Lin, S. Kato, C. A. Clayson, E. Wood, J. Sheffield, R. Adler, G. Huffman, M. Bosilovich, G. Gu, F. Robertson, P. R. Houser, D. Chambers, J. S. Famiglietti, E. Fetzer, W. T. Liu, X. Gao, C. A. Schlosser, E. Clark, D. P. Lettenmaier, and K. Hilburn, The Observed State of the Energy Budget in the Early 21st Century, *J. Climate*, doi: <http://dx.doi.org/10.1175/JCLI-D-14-00556.1>
- Li, Bailing, M. Rodell and J. S. Famiglietti, Groundwater Variability across Scales in the Central and Northeastern U.S., *J. Hydrol.*, 525, 769-780.
- Maeda, E. E., H. Kim, L. E. O. C. Aragao, J. S. Famiglietti and T. Oki, Disruption of hydroecological equilibrium in southwest Amazon mediated by drought, to appear, *Geophys. Res. Lett.* 42, doi:10.1002/2015GL065252.

- Richey, A. S., B. F. Thomas, M.-H. Lo, J. T. Reager, K. A. Voss, M. Rodell and J. S. Famiglietti, Quantifying renewable groundwater stress with GRACE, *Water Resour. Res.*, 51(7), 5217-5238, doi:10.1002/2015WR017349.
- Richey, A. S., B. F. Thomas, M.-H. Lo and J. S. Famiglietti, Uncertainty in Global Groundwater Storage Estimates in a Total Groundwater Stress Framework, *Water Resour. Res.*, 51(7), 5198-5216, doi:10.1002/2015WR017351.
- Rodell, M., H. K. Beaudoin, T. S. L'Ecuyer, W. S. Olson, J. S. Famiglietti, P. R. Houser, R. Adler, M. G. Bosilovich, C. A. Clayson, D. P. Chambers; E. Clark, E. J. Fetzer; X. Gao, G. Gu, K. Hilburn, G. J. Huffman, D. P. Lettenmaier, W. T. Liu, C. A. Schlosser, J. Sheffield, E. F. Wood, The Observed State of the Water Cycle in the Early 21st Century, *J. Climate*, doi: <http://dx.doi.org/10.1175/JCLI-D-14-00555.1>
- Rodell, M., D. P. Chambers and J. S. Famiglietti, [Global climate] Terrestrial water storage, [in "State of the Climate in 2014"], *Bull. Amer. Meteor. Soc.*, 96(7), S27-S28.
- Singh, R., J. T. Reager, N. L. Miller and J. S. Famiglietti, Towards hyper-resolution land surface modeling: The effects of fine-scale topography and soil texture on CLM4.0 simulations over the Southwestern US, *Wat. Resour. Res.*, 51(4), 2648-2667.
- Sproles, E. A., S. G. Leibowitz, J. T. Reager, P. J. Wigington Jr., J. S. Famiglietti, and S. D. Patil, GRACE storage-runoff hystereses reveal the dynamics of regional watersheds, *Hydrol. Earth Syst. Sci.*, 19, 3253–3272, 2015, www.hydrol-earth-syst-sci.net/19/3253/2015/doi:10.5194/hess-19-3253-2015
- Thomas, B. F. and J. S. Famiglietti, Sustainable groundwater management in the arid southwestern US: Coachella Valley, CA, *Wat. Resour. Man.*, 29(12), 4411-4426 DOI: 10.1007/s11269-015-1067-y
- Thomas, B. F., R. M. Vogel and J. S. Famiglietti, Objective hydrograph baseflow recession analysis, *J. Hydrol.*, 525, 102–112, doi:10.1016/j.jhydrol.2015.03.028
- Wu, W.-Y., C.-W. Lan, M.-H. Lo, J. T. Reager and J. S. Famiglietti, Increases in the Annual Range of Soil Water Storage at Northern Mid- and High-Latitudes under Global Warming, *Geophys. Res. Lett.*, 42(10), 769-780

2014

- Bijoor, N., D. E. Pataki, D. Haaver, L. Litvak and J. Famiglietti, A comparative study of the water budgets of lawns under three management scenarios, *Urban Ecosyst.*, 17 (4), 1095-1117, DOI 10.1007/s11252-014-0361-4
- Castle, S., B. F. Thomas, J. T. Reager, S. C. Swenson, M. Rodell, and J. S. Famiglietti, Groundwater Depletion During Drought Threatens Future Water Security of the Colorado River Basin, *Geophys. Res. Lett.*, 41, 5904–5911, doi:10.1002/2014GL061055. (Editor's Choice selection, *Science Magazine*, August 14, 2014)
- de Linage, C., J. S. Famiglietti and J. T. Randerson, Statistical prediction of terrestrial water storage changes in the Amazon basin using Tropical Pacific and North Atlantic sea surface temperatures, *Hydrol. Earth Syst. Sci.*, 18, 2089–2102, www.hydrol-earth-syst-sci.net/18/2089/2014/ doi:10.5194/hess-18-2089-2014
- Famiglietti, J. S., The global groundwater crisis, *Nature Climate Change*, 4, 945-948.
- Forootan, E., R. Rietbroek, J. Kusche, M. A. Shari, J. L. Awange, M. Schmidt, P. Omondi, J. Famiglietti, Separation of large scale water storage patterns over Iran using GRACE, altimetry and hydrological data, *Remote Sensing of Environment*, 140, 580-595, <http://dx.doi.org/10.1016/j.rse.2013.09.025>

- Kim, B., B. F. Sanders, K. Han, Y. Kim and J. S. Famiglietti, Calibration of Stormwater Management Model Using Flood Extent Data, *Proceedings of the ICE - Water Management*, 167 (1), 1–29, DOI: 10.1680/wama.12.00051
- Kim, B., B. F. Sanders, J. E. Schubert and J. S. Famiglietti, Mesh type tradeoffs in 2D hydrodynamic modeling of flooding with a Godunov-based flow solver, *Adv. Water Res.*, 68, 42-61, <http://dx.doi.org/10.1016/j.advwatres.2014.02.013>
- Reager, J.T., B. F. Thomas and J. S. Famiglietti, River basin flood potential inferred using GRACE gravity observations at several months lead-time, *Nature Geoscience*, published online, 6 July 2014, 7, 588–592, doi:10.1038/ngeo2203
- Rodell, M., D. P. Chambers and J. S. Famiglietti, [Global climate] Groundwater and terrestrial water storage, [in “State of the Climate in 2013”]. *Bull. Amer. Meteor. Soc.* 95(7), S24-S25.
- Syed, T. H., P. J. Webster and J. S. Famiglietti, Assessing Interannual Variability of Evapotranspiration over the Ganga River Basin Using Water Balance Computations, *Water Resour. Res.*, 50 (3), 2551–2565, DOI: 10.1002/2013WR013518
- Thomas, A., J. T. Reager, J. S. Famiglietti and M. Rodell, A GRACE-based water storage deficit approach for hydrological drought characterization, *Geophys. Res. Lett.*, 41(5), 1537–1545, doi:10.1002/2014GL059323.

2013

- Chen, Y., I. Velicogna, J. S. Famiglietti and J. Randerson, Satellite observations of terrestrial water storage provide early warning information about drought and fire season severity in the Amazon, *J. Geophys. Res. Biogeosciences*, 118 (2), 495-504, DOI: 10.1002/jgrg.20046
- David, C. H., Z.-L. Yang and J. S. Famiglietti, Quantification of the upstream-to-downstream influence in the Muskingum method, and implications for speedup in parallel computations of river flow, *Wat. Resour. Res.*, 49 (5), 2783-2800, DOI: 10.1002/wrcr.20250
- De Linage, C., H. Kim, J. S. Famiglietti and J.-Y. Yu, Impact of Pacific and Atlantic sea surface temperatures on interannual and decadal variations of GRACE land water storage in tropical South America, *J. Geophys. Res.*, 118 (19), 10811-10829, DOI: 10.1002/jgrd.50820
- Famiglietti, J., A. Jimenez-Bacardi and D. Wehrensennig, Climate Science and Peace in the Middle East, *Peace Review*, 25 (4), 534-540, doi:10.1080/10402659.2013.846179
- Famiglietti, J. S., and M. Rodell, Water in the Balance, *Science*, 340, 1300-1301.
- Lo, M.-H., and J. S. Famiglietti, Irrigation in California’s Central Valley Strengthens the Southwestern U. S. Water Cycle, *Geophys. Res. Lett.* 40(2), Pages: 301–306, DOI: 10.1002/grl.50108
- Lo, M.-H., C.-M. Wu, H.-Y. Ma and J. S. Famiglietti, The Response of Coastal Stratocumulus Clouds to Agricultural Irrigation in California, *J. Geophys. Res.*, 118 (D12), 6044-6051, DOI: 10.1002/jgrd.50387
- Ouellette, K. J., C R. de Linage and J. S. Famiglietti, Estimating snow water equivalent from GPS vertical site-position observations in the western United States, *Wat. Resour. Res.*, 49 (5), 2508-2518, DOI: 10.1002/wrcr.20173
- Reager, J. T. and J. S. Famiglietti, Characteristic mega-basin water storage behavior using GRACE, *Wat. Resour. Res.*, 49(6), 3314–3329, doi:10.1002/wrcr.20264
- Rodell, M., D. P. Chambers and J. S. Famiglietti, [Global Climate] Terrestrial Water Storage [in “State of the Climate in 2012”]. *Bull. Amer. Meteor. Soc.*, 94 (8), S24.
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- Space, *International Journal of Remote Sensing*, 34(24), 8653–8668, <http://dx.doi.org/10.1080/01431161.2013.845923>
- Taylor, R. G., B. Scanlon, P. Döll, M. Rodell, R. van Beek, Y. Wada, L. Longuevergne, J. S. Famiglietti, M. LeBlanc, M. Edmunds, L. Konikow, J. Chen, M. Taniguchi, T. Green, M. Bierkens, Y. Fan, R. Maxwell, Y. Yecheili, J. Gurdak, D. Allen, M. Shamsudduha, K. Hiscock, P. Yeh, A. MacDonald, I. Holman and H. Treidel, Groundwater and climate change, *Nature Climate Change*, 3 (4), 322-329. doi:10.1038/nclimate174
- Thomas, B. F., R. M. Vogel, C. N. Kroll and J. S. Famiglietti, Estimation of the baseflow recession constant under human interference, *Water Resour. Res.*, 49(11) 7366-7379. DOI: 10.1002/wrcr.20532
- Voss, K. A., J. S. Famiglietti, M. Lo, C. R. de Linage, M. Rodell and S. C. Swenson, Groundwater depletion in the Middle East from GRACE with Implications for Transboundary Water Management in the Tigris-Euphrates-Western Iran Region, *Wat. Resour. Res.*, 49(2), 904-914, DOI: 10.1002/wrcr.20078 (WRR Editor's Choice Award 2013)

2012

- Achberger, C.; Ackerman, S. A.; Ahmed, Farid H.; et al., State of the Climate in 2011, Special Supplement to the Bulletin of the American Meteorological Society, 93(7), July 2012. *Contribution: Rodell, M., D. Chambers and J. S. Famiglietti, [Global Climate] Groundwater and Terrestrial Water Storage, [in "State of the Climate 2011"] Bull. Amer. Meteor. Soc., 93 (7), S29 – S30.*
- Anderson, R., M. Lo and J. S. Famiglietti, Assessing surface irrigation water use using remotely-sensed groundwater, evapotranspiration, and precipitation, *Geophys. Res. Lett.*, 39, 16, doi:10.1029/2012GL052400, 2012
- Crossley, D., C. de Linage, J. Hinderer, J. P. Boy and J. S. Famiglietti, A comparison of the gravity field over Central Europe from superconducting gravimeters, GRACE, and global hydrology models, using EOF analysis, *Geophysical Journal International*, 189 (2), 877-897, DOI: 10.1111/j.1365-246X.2012.05404.x
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2014

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Invited Lectures (Last 5 years):

Keynotes and Named Lectures

Association of American Geographers, Annual Meeting, Climate Specialty Group, Keynote Address, San Francisco, CA, March 29-April 2, 2016

The 5th University of Florida Water Institute Symposium, Gainesville, FL, Keynote Address, February 16-17, 2016

Distinguished Scientist Seminar Series, Woods Hole Oceanographic Institution, Woods Hole, MA, November 13, 2015

The Groundwater Foundation, 2015 National Conference, Lincoln, NE, Keynote Address, October 20-22, 2015

2nd iSEE Congress, Institute for Sustainability, Energy, and Environment, University of Illinois, Urbana, IL, Keynote Address, September 15, 2015

50th Anniversary Symposium, State of the Art Measurements of Catchment-Scale Hydrological Processes, Wageningen University, Wageningen, Keynote Address, The Netherlands, September 10, 2015

Antoinette and Vincent M. Dungan Lectureship on Energy and the Environment, Occidental College, Los Angeles, CA, September 4, 2015

The Water Council, Water Summit 2015, Milwaukee, WI, Keynote Address, June 23-24, 2015

National Institute for Animal Agriculture, Water and the Future of Animal Agriculture, Indianapolis, IN, Keynote Address, March 24, 2015,

David Keith Todd Lecture, Groundwater Resources Association of California, 23rd Annual Conference, Sacramento, CA, October 16, 2014

Moos Family Lecture Series, Freshwater Society, St. Paul, MN, September 18, 2014

CUAHSI 4th Biennial Colloquium on Hydrologic Science and Engineering, Shepherdstown, WV, Keynote Address, July 28, 2014

American Water Works Association, Spring Conference, Anaheim, CA, Keynote Address, March 25, 2014

Harleman Lecture, Pennsylvania State University, University Park, PA, October 14, 2013

Birdsall-Dreiss Distinguished Lecture, Geological Society of America, Annual Meeting, November 6, 2012

STIA Loewy Lecture, Georgetown University, Washington, DC, November 17, 2011

Water Summit Australia 2011, Sydney, Keynote Address, July 20-21, 2011

The Global Water Summit 2011, Berlin, Germany, Keynote Address, April 18-19, 2011

Other Invited Lectures

2016

University of Texas, Environmental Science Institute

2015

Princeton University, Princeton, NJ; Concerned Citizens of Laguna Woods, Laguna Woods, CA; Water Resilience and Sustainability in LA Workshop, California Institute of Technology, Pasadena, CA; 50th Anniversary Symposium, Hydrology and Quantitative Water Management Group, Wageningen University, The Netherlands; Global Institute of Sustainability, Arizona State University, NASA Goddard Space Flight Center; Harvard University, Joint Center for Housing Studies, Marina del Rey, CA; Transition Laguna Beach, Laguna Beach, CA; Committee on Foreign Relations, Tucson, AZ; University of Arizona, Tucson, AZ; Anza-Borrego Natural History Association, Borrego Springs, CA; Sustainability Lecture Series, University of California, Irvine; Hydrologic Sciences Symposium, University of Colorado, Boulder; American Water Resources Association Spring Conference, Los Angeles, CA; World Water Day for the San Gabriel Valley, Sierra Madre, CA; Tufts University, Medford, MA; UCLA (2), Los Angeles, CA; Pasadena Rotary Club, Pasadena, CA; Groundwater Resources Association of California, San Francisco Bay Area Branch; King Abdullah University of Science and Technology, Saudi Arabia

2014

Localizing California Waters, Tuolumne, CA; Max Planck Institute for Biogeochemistry, Jena, Germany; International Space Science Institute, Bern; Society of Environmental Journalists, New Orleans; League of Women Voters of Orange County; International GEWEX Science Conference, The Hague; American Geophysical Union Science Policy Conference, Washington, DC; Mesa Water District, Water Issues Study Group, Costa Mesa, CA; Urban Water Management Workshop, UC Riverside; University Club Forum, UC Irvine; Laguna Beach Rotary Club, Laguna, CA; Southern California Water Dialogue, Los Angeles; Cal State Long Beach; Metropolitan Water District of Southern California, Los Angeles; National Taiwan University; Northeastern University; Boston Museum of Science; Utah State University; Rice University; Groundwater Resources Association of California; Orange County Natural History Lecture Series; Desert Sun Water Forum; California State Water Resources Control Board, Sacramento; Association for Corporate Growth, UC Irvine; Water Advisory Council of Orange County, Fountain Valley, CA

2013

UCLA; Brown University; Pennsylvania State University; Jet Propulsion Laboratory; University of Texas at Austin; University of Virginia; University of Saskatchewan; Tel Aviv University; Technion University; Georgia Institute of Technology (2), American Water Intelligence, Houston; Zocalo Public Square, Los Angeles

2012

Ohio State University; Orange Coast College; Milken Institute California Summit; American Water Intelligence, American Water Summit; Grand Valley State University; Geological Society of America, Annual Meeting; University of North Carolina, Chapel Hill;

University of British Columbia; Environmental Science Institute, University of Texas at Austin; Department of Geological Sciences, University of Texas at Austin; Iowa State University; Clean Water Act@40, Harvard Law School; Department of Energy, Water Cycle Workshop; California Water Federation/Water Education Foundation/Environmental Defense Fund; U. S. Department of State, Intergovernmental Water Panel; University of Virginia; University of Nebraska-Lincoln Water Center; University of California, Berkeley; Urban Water Institute, Annual Conference; Clinton Global Initiative; Wolfensohn Fund; National Ground Water Association, Groundwater Summit; Brown University; Harvard University; New Mexico Tech; Oklahoma State University; University of Pennsylvania; Jet Propulsion Laboratory; Cal State Long Beach; UC Irvine, School of Law; Bureau of Economic Geology, University of Texas at Austin; Northern Arizona University, Flagstaff; National Ground Water Association, Emerging Issues Conference; University of Hawaii at Manoa ; Cal Poly Pomona; University of Nevada, Las Vegas; University of Arizona; University of California, Santa Barbara

2011

Texas A & M University, New Frontiers in Engineering Science for Sustainability Seminar Series; Georgetown University, Loewy Lecture, Science, Technology and International Affairs Program; McGill University, Brace Centre for Water Resources Management; Beijing Water Authority, Beijing Hydraulic Research Institute; Chinese Academy of Science, Institute of Tibetan Plateau Research; Beijing Normal University, College of Global Change and the Earth System

2010

University of California, Davis, Oregon State University, Institute for Water and Watersheds Seminar Series, University of California, Merced, Stanford University, Department of Environmental Earth System Science, Stanford University, Fluid Mechanics Seminar, Department of Civil and Environmental Engineering

Invited Presentations (Last 5 Years):

2015

- Famiglietti, J. S., The Future of Water Sustainability: 21st Century Realities, American Geophysical Union Fall Meeting, San Francisco, Dec. 14-18
- Famiglietti, J. S., C. David, J. T. Reager, K. M. Andreadis, A. Trangsrud and R. Basillio, High-Resolution Hydrologic Modeling and Data Integration for the Western United States, American Geophysical Union Fall Meeting, San Francisco, Dec. 14-18
- Famiglietti, J. S., Hydrogeodesy as an emerging research discipline, IRIS, Future of Seismic and Geodetic Facility Needs in the Geosciences, Leesburg, VA
- Famiglietti, J. S., Epic California Drought and Groundwater as Viewed from Space, AGU Chapman Conference, Irvine, CA, March 22, 2015
- Famiglietti, J. S., The role of remote sensing in groundwater and drought management, California State Water Resources Control Board, Sacramento, CA, February 11

2014

- Famiglietti, J. S., Accelerated Drying of the Mid-Latitudes from Groundwater Depletion, 2014 American Geophysical Union Fall Meeting, San Francisco, Dec. 15-19

Famiglietti, J. S. Castle, M. H. Lo, J. T. Reager, M. Rodell, A. Thomas, B. Thomas, Satellite observations of groundwater depletion in the western U. S. highlight threats to water and food security, Geological Society of America Annual Meeting, Vancouver, BC
Famiglietti, J., AGU Science Policy Conference, Panel on Science Communication
Famiglietti, J., GRACE applications to monitoring drought, NASA-DWR workshop, Sacramento
Famiglietti, J., Groundwater depletion as viewed from space: Issues at home and abroad, U. S. Global Change Research Program, Adaptation Science Interagency Working Group, Washington, DC
Famiglietti, J., Soil moisture and groundwater scaling behavior across scales, EGU, Vienna
David, C. H., J. T. Reager and J. S. Famiglietti, Hyper-resolution modeling in California and the western U. S., Workshop on hyper-resolution modeling, Utrecht
Famiglietti, J., Groundwater depletion in California as viewed from space, California State Water Resources Control Board, Sacramento

2013

Reager, J. T., C. de Linage, M. Lo, S. Swenson, D. Chambers, K. Voss, M. Rodell, and J. S. Famiglietti, Emerging groundwater storage trends from GRACE and Contributions to Global Mean Sea Level Rise, American Geophysical Union, Fall Meeting, 2013
Famiglietti, J. S., Impacts of Large-Scale Water Management on Terrestrial Hydrology and Climate, American Geophysical Union, Fall Meeting, 2013
Famiglietti, J. S., M. Rodell, J. T. Reager, C. de Linage, M. Lo, S. Swenson, D. Chambers and K. Voss, Emerging groundwater storage trends from GRACE and Contributions to Global Mean Sea Level Rise, Geological Society of America 2013 Annual Meeting, Denver, October, 2013
Famiglietti, J. S., Monitoring and Managing Groundwater Storage Changes Using the NASA GRACE Satellite Mission, World Water Week, Stockholm, Sweden
Famiglietti, J. S., Mapping Changing Freshwater Availability and Groundwater Depletion with the NASA GRACE Satellite Mission World Water Week, Stockholm, Sweden,
Famiglietti, J. S., Water Cycle Change and the Human Fingerprint on the Water Landscape of the 21st Century: Observations from a Decade of GRACE, AsiaFlux/HESSES3 Workshop, Seoul, South Korea, August 20-22
Famiglietti, J. S., Mapping water security in Canada, Towards Sustainable Groundwater: Making groundwater inventories, mapping and monitoring visible and self-financing, Munk School of Global Affairs, University of Toronto, June 25.
Famiglietti, J. S., Groundwater remote sensing using GRACE and GPS, IGARSS, Melbourne, Australia, July, 2013
Famiglietti, J. S., Water Cycle Change and Global Groundwater Depletion from the NASA GRACE Mission, World Bank, Washington, D.C., April 11

2012

Famiglietti, J. S. and J. T. Reager, Characteristic mega-basin storage using GRACE, Fall Meeting, AGU, San Francisco, CA, 2-7 Dec
Famiglietti, J. S., Water Cycle Change and the Human Fingerprint on the Water Landscape of the 21st Century: Observations from a Decade of GRACE, AGU, San Francisco, CA, 2-7 Dec

- Famiglietti, J. S., Large-scale terrestrial water budgets from GRACE, AOGS (WPGM) Meeting, Singapore, 13-17 August
- Famiglietti, J. S., Water Cycle Change and the Human Fingerprint on the Water Landscape of the 21st Century: Observations from a Decade of GRACE, AOGS (WPGM) Meeting, Singapore, 13-17 August
- Famiglietti, J. S., Getting Real About the State of Hydrological Modeling: Priorities for Advancing the Next Generation of Integrated, Data-Assimilating Water Cycle Simulators, AGU Chapman Conference on Remote Sensing of the Terrestrial Water Cycle, Kona, Hawaii, 19 –22 Feb
- Kim, H., T. Oki, P. A. Dirmeyer, S. I. Seneviratne, S. Kanae, and J. S. Famiglietti, Verification of Simulations and Uncertainty Estimations in Ensemble Land Surface Simulations: Exercises in the Global Soil Wetness Project Phase 3, abstract Hydrology 1.4, presented at 92nd Annual Meeting, AMS, New Orleans, Louisiana, 22-26 Jan.

2011

- Famiglietti, J., C. A. Clayson and E. F. Wood, Remotely-Sensed Estimates of Regional and Global Evaporation and Latent Heating, abstract H42B-01, presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- Famiglietti, J. S., M. Lo, H. J. Kim, J. Edman, B. F. Sanders, S. Castle Z. Liu, N. L. Miller, R. S. Singh, D. W. Valentine and I. Zaslavsky Accelerating the Development of Land Surface Hydrological Modeling to Address Societal Needs: Application of an Integrated Data and Modeling Framework to California abstract GC34B-08 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- Rodell M. and J. Famiglietti, Monitoring Global Freshwater Resources with GRACE, abstract GC21D-02 presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- Rodell M., M. M. Watkins and J. Famiglietti, Remote Sensing of Terrestrial Water Storage with GRACE and Future Satellite Gravimetry Missions, abstract H21J-05, presented at 2011 Fall Meeting, AGU, San Francisco, Calif., 5-9 Dec.
- Famiglietti, J., M. Rodell, S. Swenson, D. Chambers, M. Lo, K. Voss, C. de Linage and S. Ho, Groundwater depletion as a global phenomenon, 2011 GSA Annual Meeting in Minneapolis, 9–12 October
- Famiglietti, J., J. Reager, K. Voss and R. Rivera, Observations of changing freshwater availability from GRACE, Water Matters, IAEA Scientific Forum 2011, September 20-21, Vienna
- Famiglietti, J., D. Chambers, J. T. Reager, M. Rodell, H. Syed, S. Swenson, I. Velicogna, J. Wahr, K. Hilburn, J. Willis and S. Nerem, Indicators of water cycle acceleration from GRACE and NASA NEWS datasets, NEWS Science Team Meeting, Irvine, CA, June 13
- Famiglietti, J., 1st UNESCO-GRAPHIC LAC Seminar, Groundwater Resources, Climate Change and Human Pressures: Assessment and Adaptation in Latin America and the Caribbean, Space-Based Observations of Groundwater Depletion, Juan Dolio, Dominican Republic, June 30-July 1
- Famiglietti, J., Groundwater Dynamics Using GRACE and the Potential for Combining with Isotopic Information, International Symposium on Isotopes in Hydrology, Marine Ecosystems, and Climate Change Studies, 27 March - 1 April 2011, Monaco

2010

- Famiglietti, J., D. P. Chambers, M. Rodell, T. H. Syed, S. C. Swenson, I. Velicogna, J. M. Wahr, R. Nerem, K. A. Hilburn and J. K. Willis. Indicators of Water Cycle Acceleration from GRACE and NASA NEWS Datasets, Abstract H34D-04 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec
- Famiglietti, J., M. Rodell, S. C. Swenson, D. P. Chambers, K. Voss, M. Lo, C. de Linage, K. Anderson, J. T. Reager, R. Rivera, H. Liu, I. Velicogna, J. Wahr and R. Nerem, Emerging trends in freshwater availability from GRACE, Abstract H14D-01 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec
- Rodell, M., T. Townsend, J. S. Famiglietti, B. Li, and J. Nigro, Large Scale Variability of Ground Water Storage: the Mississippi River Basin, Abstract H14D-02 presented at 2010 Fall Meeting, AGU, San Francisco, Calif., 13-17 Dec
- Famiglietti, J. S., Water Cycle Change from GRACE, Workshop on 'Uncovering the global state of the biosphere from in-situ and Earth Observation data – towards a land-ecosystem-atmosphere index,' Frascati, Italy, 2 November, 2010
- Famiglietti, J. S., T. H. Syed, D. Chambers, J. Willis and K. Hilburn, Mass Balance Methods for Estimating Regional to Global Freshwater Discharge Using GRACE and Altimetry, Altimetry for Oceans and Hydrology, 18-22 October, Lisbon, Portugal,
- Famiglietti, J. S., M. Rodell, T. L'Ecuyer, H. Kato Beaudoin and the NEWS Water and Energy Cycle Climatology Team, Altimetry for Oceans and Hydrology, 18-22 October, Lisbon, Portugal
- Famiglietti, J. S., The Community Hydrologic Modeling Platform (CHyMP) and CSDMS, CSDMS Workshop on Modeling for Environmental Change, 14-17 October, San Antonio, TX
- Famiglietti, J. S., Lessons Learned from 9 Years of GRACE, SWOT Meeting, 22-23, September, 2010
- Famiglietti, J. S., Role of Community Models for SWOT, SWOT Hydrology Virtual Mission Meeting, Paris, 22-September, 2010
- Famiglietti, J. S., and K. A. Voss, Groundwater Depletion in Turkey and the Middle East from GRACE, UN/Turkey/ESA Workshop on Space Technology Applications for Socio-Economic Benefits, 14-17 September, Istanbul, Turkey
- Famiglietti, J. S., The Human Fingerprint on Land-Atmosphere Interactions, CUAHSI 2nd Biennial Colloquium on Hydrologic Science and Engineering, 19-21 July, 2010, Boulder, CO.
- Famiglietti, J. S., On the Need to Accelerate the Development of Regional-to-Global-Scale Hydrological Models, HESS2 International Conference, 22-25 June 2010, Tokyo, Japan
- Famiglietti, J. S., Linking Models and Model Integration in a Community Framework, 3rd USGS Modeling Conference, 7-11 June, 2010, Broomfield, CO
- Famiglietti, J. S., The University of California Center for Hydrologic Modeling, Meeting a Grand Challenge to Hydrology: The Global Monitoring of Earth's Terrestrial Water, A Workshop on Hyper-Resolution Land Surface Modeling, Princeton, NJ, March 15-17
- Famiglietti, J. S., Understanding Hydrologic Change from Geodetic Measurements: Opportunities and Challenges, UNAVCO 2010 Science Workshop, Boulder, CO, March 9-11

Professional Affiliations and Selected Service:

American Geophysical Union

2004 Hydrology Fall Meeting Program Chair
2001-2009 Hydrology Executive Committee
2000-2003 Hydrology Section, Remote Sensing Committee, Co-Chair
1996-present Hydrology Section, Remote Sensing Committee
1986-present Member

American Meteorological Society

1995-1998 Hydrology Committee
1992-2000 Member

Consortium of Universities for the Advancement of Hydrologic Sciences, Inc. (CUAHSI)

2007-2011 Community Hydrologic Modeling Platform (CHyMP), Lead Scientist

Geological Society of America

2012-2014 Birdsall-Dreiss Distinguished Lecturer Selection Committee
2011-present Member

Other Society Memberships

2000-2005 American Society of Civil Engineers, European Geophysical Union, IEEE

Congressional Testimony

2012 [Congressional Testimony](#), U. S. House of Representatives, Committee on Science, Space and Technology, Hearing on Drought Forecasting, Monitoring and Decision Making: A Review of the National Integrated Drought Monitoring System, July 25
2010 [Congressional Testimony](#), U. S. House of Representatives, Committee on Natural Resources, Sub-Committee on Water and Power, Groundwater Depletion in California's Central Valley, January 25

International, Federal and State Government Advising and Briefing

2015 **U. S. Sen. Diane Feinstein**, requested update on drought research
U. S. Representative Ken Calvert, requested update on drought research
California Secretary of Food and Agriculture Karen Ross, Secretary of Business, Consumer Service and Housing Anna Caballero, requested update on drought research
Water Resources Control Board, Advising on implementing California groundwater legislation, February 11
2014 **U. S. Congressional Briefing**, UC Research: Managing Water from Floods to Droughts, May 6, Washington, DC
California State Assembly Committee on Water, Parks and Wildlife, Groundwater management hearing, March 11, Sacramento

- U. S. Department of Defense, Office of Net Assessment**, briefing on global water security, February 20, Washington, DC
- California State Water Resources Control Board**, Groundwater concept paper workshop, January 22, Sacramento
- 2013 **U. S. Department of Defense, Office of Net Assessment**, briefing on global water security, November 14, Washington, DC
- U. S. Senate, Staff Briefing** on Groundwater in the United States and on Science paper “Water in the Balance,” July 29
- Consul General to Israel, Los Angeles**, Briefing on Middle East Water Security and Water Diplomacy
- U.S. Embassy, Tel Aviv**, Briefing on Middle East Water Security and Water Diplomacy
- U.S. Embassy, Amman**, Briefing on Middle East Water Security and Water Diplomacy
- 2011 **U. S. Secretary of Energy, Steven Chu**, Obama Administration, Briefing on global groundwater depletion including California’s Central Valley, September 19, Vienna
- 2011 **United Nations, Former Director General, Kofi Annan**, Briefing on global water issues, April 18, Berlin
- 2010-present Multiple personal and staff briefings:
- U.S. Senators** Barbara Boxer (CA), Diane Feinstein (CA), Brian Schatz (HI), Sheldon Whitehouse (RI)
- U.S. Representatives** Ken Calvert (CA), Jim Costa (CA), John Garamendi (CA), Zoe Lofgren (CA), Kevin McCarthy (CA), George Miller (CA), Grace Napolitano (CA), Dana Rohrabacher (CA), Ed Royce (CA), Loretta Sanchez (CA), David Valadao (CA), Harry Waxman (CA),
- U. S. Senate Committee on Energy and Natural Resources**
- U. S. House Committee on Appropriations**
- U.S. House Committee on Space, Science and Technology**
- U. S. House Committee on Natural Resources, Subcommittee on Water and Power**
- U. S. Congressional Research Service**
- White House:** Office of Science and Technology Policy; Council on Environmental Quality
- U.S. Department of State:** Water Team
- U. S. Department of Interior:** Assistant Secretary for Water and Science
- California Office of the Governor;** Office of Planning and Research; Washington DC staff; Secretary of Natural Resources; State Water Resources Control Board; State Board on Food and Agriculture
- Orange County Water District, Municipal Water District of Orange County, Water Advisory Council of Orange County, Irvine Ranch Water District, Southern California Association of Governments**

2001 U. S. Secretary of Commerce, Don Evans, G. W. Bush Administration, Advising on Global Change, February 14, Austin

Working Groups and Committees

2011-2012 National Academy of Science, National Research Council, Board on Atmospheric Sciences and Climate, Committee on A National Strategy for Advancing Climate Modeling

2010-2012 Committee on Earth Observation Satellites (CEOS), Working Group and Calibration and Validation, Land Product Validation Subgroup, Soil Moisture Validation Focus

2009-2010 National Academy of Science, National Research Council, Committee on Climate, Energy and National Security, Panel on Hydrology and Water Resources

2008-2010 Community Surface Dynamics Modeling System (CSDMS)/CUAHSI Hydrology Focus Research Group, Chair

2007-2011 Global Climate Observing System (GCOS)/Global Terrestrial Observing System (GTOS), Terrestrial Observation Panel for Climate Integrated Global Observing Strategy (IGOS) Water Cycle Observations (IGWCO) Theme, Science Advisory Committee

2006-2010 International Soil Moisture Working Group

2005-2007 National Academy of Science, National Research Council, Committee on Integrated Observations for Hydrologic and Related Studies

2005 NASA, Earth Science and Applications from Space Strategic Roadmap Committee, Subcommittee on Discovery and Exploration

2003-2004 Consortium of Universities for the Advancement of Hydrologic Sciences, Inc. (CUAHSI) Hydrologic Observatory Prototype Design Committee

2002-present NASA, Terrestrial Hydrology Program, Surface Water Working Group

1999-present NASA, Terrestrial Hydrology Program, Soil Moisture Working Group

1998-2003 International Earth Rotation Service, Special Bureau for Hydrology

1997-2007 External Advisory Team, Center for Hydrology, Soil Climatology and Remote Sensing, Alabama A & M University

1996-present NCAR Climate System Model Land Working Group

1997-1999 Southern Great Plains 1997 Hydrology Experiment Soil Moisture Working Group

Symposia and Workshops Organized

2015 National Research Council Decadal Survey, Community Workshop on Future Terrestrial Water Storage Missions, co-organizer
Water Sustainability in Metropolitan Los Angeles, Resnick Institute for Sustainability and NASA Jet Propulsion Laboratory Joint Workshop, California Institute of Technology, co-organizer
City of Sierra Madre, CA, World Water Day Water Fair, co-organizer;
Drought Panel, co-organizer

2012 DOE Water Cycle Workshop, 25-28 September, Washington, DC. Co-organizer

- 2011 NASA Energy and Water Cycle (NEWS) Science Team Meeting, June 13-15, Irvine, CA, co-organizer
3rd Workshop on the Community Hydrologic Modeling Platform (CHyMP): Strategic and Implementation Plan, March 15-17, Irvine, CA, co-organizer
- 2009 Second Workshop of the CSDMS Hydrology Focus Research Group, 16-17 November, Boulder, CO, co-organizer
2nd Workshop on a Community Hydrological Modeling Platform (CHyMP), March 31-April 1, Memphis, TN, co-organizer
First Workshop of the CSDMS Hydrology Focus Research Group, 20-21 January, Boulder, CO, organizer
- 2008 UNESCO-UCI International Conference on Water Scarcity, Global Changes and Groundwater Management Responses, 1-6 December, Irvine, CA, Organizing and Scientific Committees
International Conference on Groundwater and Climate in Africa, 25-28 June, Kampala, Uganda, Scientific Steering Committee
Scoping Workshop on a Community Hydrological Modeling Platform (CHyMP), March 26-27, Washington, DC, co-organizer
- 2007 IGWCO/GARS/UNESCO Workshop on Global Monitoring of Groundwater Resources, October 18-19, Utrecht, The Netherlands, co-organizer
UCI-JPL Workshop on Satellite Observations of the Global Water Cycle, March 7-9, Beckman Center of the National Academies, Irvine, CA, co-organizer
- 2004 GRACE Hydrology Workshop, March 22, Beckman Center of the National Academies, Irvine, CA, organizer

Outreach and Communication

Selected Film and Video (extended list at <http://jayfamiglietti.com/media/videos/>)

- 2015 **Years of Living Dangerously**, to film on Sept. 23, 2015
VICE HBO, filmed on July 17, 2015
The Rachel Maddow Show, New research sounds alarm on global water supply, June 17, 2015
PBS NewsHour, Is the World's Fresh Water Supply Running Out? June 17, 2015
Tavis Smiley, Earth Day 2015 interview on the California Drought. April 22, 2015
Real Time with Bill Maher, mid-show interview guest, March 27, 2015
CBS This Morning, California governor defends sparing farmers from drought rules. April 6, 2015
- 2014 **Al Jazeera America**, TechKnow, California drought episode, October 18, 2014
Pivot TV, update on 'Last Call at the Oasis'
60 Minutes, Depleting the Water, featured expert, story consultant, November 16, 2014

- 2013 **PBS SoCal Water expert video**
Sip, Do Not Gulp. Filmed interview for de Saisset Museum installation, Santa Clara University
TEDx, “Can We End the Global Water Crisis”
<http://www.youtube.com/watch?v=SejRgVhsT7c>
- 2012 **ESPN/Longhorn Network**, Interview and filming of public outreach lecture “Last Call at the Oasis: Is This Our Inconvenient Truth,” for broadcast on ESPN/Longhorn Network, Oct. 26
- 2010-2012 **Participant Media**, featured expert, water documentary, ‘Last Call at the Oasis’
<http://www.takepart.com/lastcall>
- 2011 **Visualizing.org**, HeadsUp2011 Times Square Challenge: Visualize Global Groundwater Trends. Scientific visualization competition for Times Square electronic billboards on World Water Day, March 22, 2012. Data provider and judge
Water Brothers, Canadian public television documentary television series, featured expert on California water issues.
Participant Media, consultant on Social Action campaign for water documentary, ‘Last Call at the Oasis’
<http://www.takepart.com/lastcall>
Future of Water, Virtual Conference, Water cycle change,
<http://www.youtube.com/watch?v=MJnoGcfo7ys>
- 2009 **Nature Magazine**, Nature Videos, ‘An Indian Hotspot,’
<http://www.nature.com/nature/videoarchive/indianhotspot/>
- 2008 **American Museum of Natural History**, New York, Science Bulletin video series, ‘GRACE: Tracking Water From Space’
<http://www.youtube.com/watch?v=vfXXGYxEoM>

Radio, Television, Newspaper, Magazines, Blogs

- 2009-present Multiple interviews on hydrology, flooding, drought, groundwater depletion and water security, including New York Times, Los Angeles Times, San Francisco Chronicle, The Washington Post, The Guardian, Bloomberg, Financial Times, Sydney Morning Herald, Times of India, 60 Minutes, CNN, CNN International, MSNBC, CNBC, Al-Jazeera, Al Jazeera America, CBS, NBC, ABC, PBS News Hour, Pivot TV, The Economist, Smithsonian, Nature, Science, Pacific Standard, Time, Newsweek, Time, Mother Jones, ClimateWire, Mashable, ThinkProgress, BBC, NPR, German Public Radio, etc.

Blog writing

- 2012-present **National Geographic Water Currents, Contributor**
<http://newswatch.nationalgeographic.com/author/jfamigli/>
Huffington Post, Contributor
<http://www.huffingtonpost.com/jay-famiglietti/>
- 2011-2013 **Water 50/50, Author**
<http://blog.ucchm.org>

Twitter

2013-present twitter.com/jayfamiglietti

Public talks and panels

For complete list see 'Invited Lectures' and <http://jayfamiglietti.com/speaking-2/>

Current Support:

- 2014-2017 NASA NEWS, Water Cycle Change from GRACE and NEWS Research, PI, \$500,000
- 2014-2017 JPL Water Initiative, \$3,000,000, Lead Scientist
- 2014-2017 NASA Sea Level, Contribution of Land Water Storage to Sea Level Variations, PI, \$1,000,000
- 2013-2016 JPL, GRACE FO Core Science Team, PI, \$210,000
- 2011-2015 NASA GRACE Science Team Recompetition: Terrestrial Hydrology from GRACE, PI, with Co-PI Matt Rodell (NASA/GSFC), \$1,000,000

Current Graduate Student and Postdoctoral Fellowships:

- 2014-2017 NASA Earth and Space Science Fellowship, Kurt Solander, A SWOT-based reservoir model for climate models, \$90,000
- 2013-2016 NASA Earth and Space Science Fellowship, Jamiat Nanteza, A Remote-Sensing Based Decision Support for East Africa, \$90,000
- 2013-2016 NASA Earth and Space Science Fellowship, Aimee Gibbons, Remote Sensing Water Quality with GRACE, \$90,000

Completed Support and Graduate Student and Postdoctoral Fellowships:

- 2014 University of California, Office of the President, MRPI Program, \$300,000
- 2012-2015 NASA Earth and Space Science Fellowship, Zhao Liu, An Explicit Representation of River Networks in a Catchment-based Land Surface Model Framework for SWOT Assimilation, \$90,000
- 2011-2014 NASA Earth and Space Science Fellowship, Sasha Richey, An Index of Global Water Stress that Incorporates GRACE Observations, \$90,000
- 2012-2015 NSF Science, Engineering and Education for Sustainability Postdoctoral Fellowship, Neeta Bijoor, A framework for sustainable irrigation practice: integrating social, hydrologic, and ecologic factors to meet the urban water challenge, \$249,973
- 2012-2013 NSF EarthCube, Linking hydrological models across scales, (Co-I, with PI David Gochis, NCAR), UCI Share, \$50,000
- 2010-2013 NASA Earth and Space Science Fellowship, Karli Anderson, Groundwater remote sensing using GRACE, GPS and InSAR, \$90,000
- 2010-2013 NASA Graduate Student Researchers Program, Alys Thomas, Characterizing Drought Using GRACE, \$90,000
- 2009-2014 University of California, Office of the President, A U.C. Center for Hydrologic Modeling, (PI), \$2,430,000
- 2009-2014 NSF, A Consortium of Universities for the Advancement of Hydrologic Sciences, Inc., Phase 2 Renewal, (Co-PI, with PI Richard Hooper) \$6,000,000, UCI share, \$0

- 2009-2013 NASA NEWS, Mass Changes in Earth's Global Water Reservoirs (PI, with Co-PIs Steven Nerem, Don Chambers, Isabella Velicogna), \$1,030,000, UCI share \$600,000
NASA THP, Scales of Variability of Groundwater Storage, \$480,000 (Co-PI with PI Matt Rodell), UCI share \$240,000
- 2009-2012 NASA Earth and Space Science Fellowship, J. T. Reager, Terrestrial water storage capacity and flood potential using GRACE , \$90,000
- 2008-2012 NASA IDS, The Contribution of Changes in Terrestrial Water Storage to Sea Level Variation, \$450,000 (PI, with Co-PI Matt Rodell, NASA GSFC), UCI share, \$330,000
NASA GRACE Science Team, Terrestrial Hydroclimatology from GRACE, \$450,000 (PI, with Co-PI Matt Rodell, NASA GSFC), UCI share, \$350,000
NASA Decision, Integrating Enhanced GRACE Water Storage Data into the U.S. and North American Drought Monitors (Co-I, with PI Matt Rodell), UCI share \$60,000
- 2008-2011 NASA Earth and Space Science Fellowship, Minhui Lo, The Role of Progressively Deeper Soil Moisture and Groundwater in Land-Atmosphere Interaction, \$90,000
- 2008-2009 NSF Hydrological Science, A CUAHSI Scoping Workshop on a Community Hydrological Modeling Platform (CHyMP), \$40,000 to CUAHSI (PI)
- 2007-2010 NASA IDS, Black Carbon Impacts on Cryosphere Climate Sensitivity. \$607,000,(Co-I, with PI Charlie Zender, UCI), Famiglietti share, 1 month summer
- 2005-2008 NASA NEWS, A Study of the First Global Measurements of the Water Cycle (PI), with Co-PIs Steven Nerem, Don Chambers, Isabella Velicogna, \$600,000, UCI share \$150,000
- 2005-2008 NOAA CPPA, Basin-Scale Terrestrial Water Storage Variations Using GRACE and Implications for Land Memory Processes (PI), \$270,000
- 2003-2009 NASA REASoN CAN: GRACE Products for Oceanography and Hydrology, (Co-I, with PI Victor Zlotnicki (JPL), \$3,120,000, UCI share, \$421,000
- 2005-2008 NASA Earth System Science Fellowship, Gopi Goteti, Explicit Representation of Lakes, Wetlands and Rivers in a Land Surface Model: A Framework for Coupling Terrestrial Biogeochemistry and Hydrology, \$72,000
- 2005-2008 NASA Earth System Science Fellowship, Hassan Syed, Estimating Continental Water Storage Changes and Discharge using GRACE: Implications for Global Mean Sea Level Rise, \$72,000
- 2005-2007 UC Water Resources Center, 2005-2006, Monitoring California Water Resources from Space (PI), \$60,000
- 2004-2006 NASA Earth System Science Fellowship, Dongryeol Ryu, Footprint-Scale Soil Moisture Spatial Variability and Correlation Structure: Implications for Satellite Validation and Hydrologic Data Assimilation, \$72,000
- 2003-2007 NASA IDS: The Contribution of Changes in Terrestrial Water Storage to Sea Level Variation, \$400,000 (PI), UCI share, \$330,000
NASA SENH: Terrestrial Water Storage Variations Using GRACE: Estimation, Uncertainty and Validation, \$540,000, (PI, with Co-PI's Clark Wilson (UT) and Matt Rodell (NASA/GSFC)) UCI share \$240,000

- NSF MRI: Acquisition of an Earth System Modeling Facility for Coupled Climate, Chemistry, and Biogeochemistry Studies, Co-PI with Charles Zender, PI, UCI, \$1,100,100, Famiglietti share \$0
- 2003-2005 NASA THP, 2003-2005 A Virtual Mission to Determine the Feasibility of a Future Surface Water Satellite Mission, NASA Terrestrial Hydrology, Co-PI with Doug Alsdorf, PI, UCLA. UCI share \$35,000
- 2003-2004 A CUAHSI Hydrologic Observatory: Example Using the Neuse River Basin,, Co-I with Ken Reckhow, Duke, PI. Famiglietti share one month summer salary.
- 2002-2005 NASA GWEC: Catchment-Based Global River Routing Scheme for Climate Models and Assimilation of Streamflow and Altimetry Data, \$330,000, (PI, with Co-PI Paul Houser, NASA/GSFC, UCI share \$165,000)
- 2002-2005 NASA Earth System Science Fellowship, Ki-Weon Seo (at UT), Estimating Water Content Variations, Error Analysis, and Validation of GRACE, \$72,000
- 2002-2005 NASA Earth System Science Fellowship, Aaron Berg, Uncertainty in Soil Moisture Initialization and Impacts on Seasonal-to-Interannual Prediction, \$72,000
- 2002-2003 NASA Oceans and Climate: Initialization of NSIPP Land Surface Model Soil Water States for Improved Seasonal-to-Interannual Prediction, \$80,000, PI
- 2000-2003 NASA: Floodplain Modeling Based on Fusion of Polarimetric SAR Interferometry and Laser Altimetry, \$300,000, (Co-PI, with Melba Crawford and Bob Schutz, UTCSR, and Jakob VanZyl and Yunjin Kim, NASA/JPL, UCI share \$105,000)
- 1999-2003 NASA: The Role of Soil Moisture Variability in Land-Atmosphere Interaction during SGP97, \$225,000, PI
- 1999-2003 NASA: Optimal Land Initialization for Seasonal Climate Predictions, \$600,000 (Co-PI, with Paul Houser, NASA/GSFC) UT/UCI share \$300,000
- 1999-2002 DOE Graduate Research Environmental Fellowship, Wendy Gordon, Role of the Hydrologic Cycle in Vegetation Response to Climate Change: An Analysis Using VEMAP Phase 2 Model Experiments, \$66,000
- 1999-2002 DOE Graduate Research Environmental Fellowship, Marcia Branstetter, An Investigation of the Effects of Continental Runoff on Climate Dynamics Using a Parallel Earth System Model, \$66,000
- 1999-2001 NASA Graduate Student Researchers Program, Karen Mohr, A Study of Land/Atmosphere Interactions in the Development of Mesoscale Convective Systems Using a Coupled Numerical Cloud and Land Surface Process Model, \$44,000
- 1998-2001 NASA Earth System Science Fellowship, Matthew Rodell, Estimating Variations in Continental Water Storage from Satellite Observations of the Time-Dependent Gravity Field, \$66,000
- 1997-2000 NSF: Closing the Global Water Cycle in Fully-Coupled Climate System Models: Terrestrial Hydrology and River Transport for the NCAR CSM, \$530,500 (PI, with CO-PI's David Maidment (UT), David Schimel (NCAR) and Charles Vorosmarty (UNH)), UT share \$315,000
- 1996-2000 NASA: New Investigator Award: Multiscale Soil Moisture Variability from Combined Remote Sensing, Modeling, and Observations, \$340,000 (PI)

- 1994-2000 NSF: Graduate Research Traineeships in Hydrology: Role of the Hydrological Cycle in the Coupled Earth System, \$562,500 (PI)
- 1996-1999 NASA Graduate Student Researchers Program, High Performance Computing and Communications Component, Marcia Branstetter, Development of a Parallel Algorithm for Land Surface Hydrology and River Transport in Coupled Climate System Models, \$66,000
- 1994-1998 NASA: Remote Sensing Soil Moisture Using Four-Dimensional Data Assimilation, \$222,000 (Co-PI, with Jim Shuttleworth, University of Arizona)
- 1996-1999 NASA Earth System Science Fellowship, Stephen Graham, A Continental River Routing Algorithm for Global Water Cycle Closure in Coupled Earth System Models, \$66,000

Current and Former Student and Staff Supervision

Current graduate student advisees

- Hrishi Chandanpurkar (Ph. D., expected 2016), impact of freshwater forcing on global ocean circulation
- Aimee Gibbons (Ph. D., expected 2016), GRACE and water quality
- Michelle Miro (Ph. D., expected 2017), dissertation research, downscaling GRACE data (Dept. of Civil and Environmental Engineering; now at UCLA)
- Jamiat Nanteza (Ph. D., expected 2016), dissertation research, a remote sensing-based decision support system for East Africa
- AJ Purdy (Ph.D. expected 2017), dissertation research, high resolution evapotranspiration modeling for California
- Kurt Solander (Ph. D., expected 2016), dissertation research, reservoir modeling for land surface models

Current research scientists

- David, Cedric (Ph. D., University of Texas at Austin, 2009) Research topic: river transport in large-scale hydrological models (at JPL)
- Reager, J.T. (Ph.D., University of California, Irvine, 2012) Research topic: Land surface modeling and global water cycle dynamics (at JPL)

Current postdoctoral advisees

- Thomas, B. (Ph. D., Tufts University, 2012) Research topic: Surface water-groundwater interactions, Storage-discharge-baseflow relationships

Current hosted visitors

- Dr. Annette Eicker (March-September, 2015), University of Bonn, Institute of Geodesy and Geoinformation. Research topic: Arctic river discharge

Graduated students

- James Anderson, M.A., 1996, co-supervised with Prof. Phil Bennett. Thesis title, "Nonpoint Source Pollution by Organochlorine Pesticides in the Lavaca-Navidad Watershed, Texas," University of Texas at Austin. Current employment, Program Manager, Department of Justice, Washington, DC.

- Kwabena Asante, Ph. D., 2000, co-supervised with Prof. David Maidment. Dissertation title, "A Comparison of Grid-Based and Watershed-Based Continental-Scale River Routing Schemes," University of Texas at Austin. Current employment, self-employed hydrologic scientist and GIS consultant.
- Aaron Berg, M. S., 2001; Ph. D., 2003. M. S. thesis title, "The Sensitivity of Land Surface Model Simulations to Bias Correction of the European Centre for Medium-Range Weather Forecasts Reanalysis," University of Texas at Austin. Ph. D. dissertation title, "Modeling and Analysis of Regional and Global Soil Moisture Variations," University of California, Irvine. Current employment, Associate Professor, University of Guelph, Department of Geography.
- Marcia Branstetter, Ph.D., 2001. Dissertation title, "Development of a Parallel River Transport Model and Applications to Climate Studies," University of Texas at Austin. Current employment, research scientist, Oak Ridge National Laboratory, Computer Science and Mathematics Division, Climate Dynamics Group
- Stephanie Castle (M.S.U.R.P/M. S. C. E., 2013) thesis title: Quantifying water storage changes in the Colorado River Basin using satellite observations, modeled results and in situ data, Current employment, Stormwater Specialist at Fuscoe Engineering, Inc., Irvine, CA
- Johanna Devereaux, M.S., 1998. Thesis title, "A Study of Soil Moisture Variability Within Remote Sensing Footprints," University of Texas at Austin. Current employment, Technical Writer, National Instruments
- Wendy Gordon, Ph. D., 2003, co-supervised with Prof. Norma Fowler. Dissertation title, "Climate change, hydrology, and ecological models: intercomparison and validation," University of Texas at Austin. Current employment, Ecologist, Texas Commission on Environmental Quality
- Gopi Goteti, (Ph. D., 2008), dissertation title, Methods for incorporating surface water routing in land surface models, University of California, Irvine. Current employment, Flood Modeler, Risk Management Solutions, San Francisco, CA
- Stephen Graham, Ph.D., 2000. Dissertation title, "The Role of Continental Surface Waters in Land-Atmosphere and Land-Ocean Interaction," University of Texas at Austin. Current employment, Research associate, Dept. of Geography, University of Minnesota, Duluth
- Michael Harren, M.A., 1996, co-supervised with Prof. Phil Bennett. Thesis title, "Source and Distribution of Hydrocarbons in the Gaines Creek Watershed, Austin, TX," University of Texas at Austin.
- Sally Holl, M.S., 2004. Thesis title, "The Sensitivity of Land Surface Model Simulations to Bias Reduction of ERA-15 Radiation Forcing," University of Texas at Austin. Current employment, USGS, Austin, TX
- John Horn (M.A. , 2013)
- Collin Lawrence (Ph. D., 2014), dissertation research, contribution of alpine glacial melt to sea level rise
- Huidong Liu (Ph. D., 2013), Dissertation title, Lakes in land surface models: Simulation and validation using satellite measurements
- Zhao Liu (Ph. D., expected 2014), Dissertation title, A catchment-based river transport model, Current employment, FM Global Insurance, Boston, MA
- Minhui Lo, Ph.D., 2010, dissertation title, "The Role of Groundwater in Hydrological Processes and, Memory, University of California, Irvine. Current employment, Assistant Professor, Department of Atmospheric Science, National Taiwan University

- Eric McWilliams (M. A., 2013)
- Karen Mohr, Ph.D., 2000. Dissertation title, “The Role of Surface-Atmosphere Interaction in the Development of Mesoscale Convective Systems,” University of Texas at Austin. Current employment, Research Scientist, Mesoscale Atmospheric Processes Branch, NASA Goddard Space Flight Center
- Mary Lear, M. S., 2000, co-supervised with Prof. David Maidment. Thesis title, “Scaling River Network Extraction from High to Low Resolution Global Digital Elevation Models,” University of Texas at Austin. Current employment, Water Resources Engineer, Pentec Environmental, Seattle, WA
- Karli Ouellette (Ph. D., 2013), Dissertation title, Hydrologic applications of GPS site-position observations in the Western U.S.
- Matthew Rodell, Ph.D., 2000. Dissertation title, “Estimating Continental Water Storage Using Satellite Observations of Time-Variable Gravity,” University of Texas at Austin. Current employment, Research Scientist and Branch Chief, Hydrological Sciences Branch, NASA Goddard Space Flight Center, Greenbelt, MD.
- J.T. Reager, Ph. D., 2012, Dissertation title, terrestrial water storage capacity and flood potential from GRACE, Terrestrial water storage across scales: Applications of the GRACE satellite mission for global hydrology, Current employment, Research Scientist, NASA Jet Propulsion Laboratory
- A. Sasha Richey, M. S., 2012 (Civil and Environmental Engineering), Thesis title, "Quantifying Groundwater Stress with Total Water Volumes and GRACE." Current employment, Ph.D. student, U.C. Irvine, Civil and Environmental Engineering (Ph. D., 2014), dissertation title, A GRACE-based characterization of global groundwater stress (Dept. of Civil and Environmental Engineering), Current employment, Postdoctoral Researcher, Washington State University
- James Rudnicki, M.A., 1996. Thesis title, “Process Controls on Hillslope-Scale Soil Moisture Variability: Rattlesnake Hill, TX,” University of Texas at Austin. Current employment, Bush and Motes, law firm, Arlington, Texas.
- Dongryeol Ryu, Ph.D., 2006, Dissertation title, “Footprint-Scale Soil Moisture Spatial Temporal Variability and Implications for Satellite Validation.” Current employment, Associate Professor, University of Melbourne, Australia
- Tajdarul Hassan Syed, Ph. D., 2007, Dissertation title, “Remote Sensing of Terrestrial Water Storage: Implications for Continental Freshwater Discharge Estimation.” Current employment, Assistant Professor, India School of Mines University, Dhanbad
- Alys Thomas (Ph.D., 2014), Dissertation title, A GRACE-Based Characterization of Hydrological Drought

Former undergraduate advisees

- Karen An, January 2012-June 2013, urban domestic water use; GRACE and groundwater stress
- David Blum, UCSB, June 2011-Dec. 2011, Continental hydrogeology
- Rachel Druffel-Rodriguez, Loyola-Marymount University, Summer, 2011, Estimating global groundwater storage
- Aimee Gibbons, Chemistry major, Winter-Spring 2011, Terrestrial water storage changes in China

Royce Rivera, Earth and Environmental Science major, Summer-Fall, 2010, Terrestrial water storage changes in Australia

Katalyn Voss, Georgetown University, Research Specialist, Summer, 2010 and B. S. Thesis, Fall 2010-Spring, 2011, Groundwater depletion in Turkey and the Middle East

Stephanie Ho (B.S. Hon., 2009), Thesis title, "Total Water Storage Change Over the San Joaquin and Sacramento River Basins: Comparing GRACE and Observational Data "

Former NSF REU advisees

Amabella Lambinico, REU, summer 2012, contribution of groundwater depletion to global mean sea level rise

James Bethune, Summer, 2009, Carleton College, Groundwater depletion in California's Central Valley

Katalyn Voss, Summer, 2009, Georgetown University, A global index of groundwater scarcity

Karli Anderson, Summer, 2007, University of Minnesota, Terrestrial water storage changes in California and the western United States

Brain Kiel, Summer, 2006, Ohio State University, Basin-scale trends in terrestrial water storage

Lindsay McKenna, Summer, 2006, Brown University, Mass changes in Earth's global water reservoirs

Former Postdoctoral advisees

Ray Anderson (Ph. D., University of California, Irvine, 2010) Research topic: Remote sensing of evapotranspiration, Current Employment, Research Scientist, USDA Agricultural Research Service, U.S. Salinity Laboratory, Riverside, CA

Neeta Bijoor, (Ph. D., University of California, Irvine, 2011) Research topic: Residential irrigation and landscape water balance. Current employment, Santa Clara Valley Water District, Water Conservation Specialist

Caroline de Linage (Ph. D., Universite de Strassbourg, 2008) Research topic: Gravity variations and hydrology

Frédéric Frappart (Ph.D., University Paul Sabatier, 2006) Research topic: remote sensing of terrestrial and global hydrology, surface water remote sensing using altimetry

Wenje Hwu (Ph. D., Arizona, 1998): January, 1998-September, 1999. Research topic: Role of soil moisture variability in land-atmosphere interaction using SGP97 remotely-sensed observations and the MM5 Mesoscale Meteorological Model.

Byunghyun Kim (Ph. D., Seoul National University, 2010) September, 2011-August, 2014, Research topic: High-resolution hydrodynamic modeling of floodplain inundation

Hyungjun Kim (Ph. D., University of Tokyo, 2010) September, 2010– April 2012, Research topic: Land surface modeling Current employment, Assistant Professor, Institute of Industrial Science, University of Tokyo

MinHui Lo, (Ph. D., University of California, Irvine, 2010), June 2010-March 2012, Research topic: Land Subsurface-Atmosphere Interactions. Current employment, Assistant Professor, Department of Atmospheric Science, National Taiwan University

Corinna Prietzsch (Ph. D., Potsdam, 1998): July, 1998 – July, 1999. Research topic: Characterization of spatial-temporal variability in remotely-sensed soil moisture images from SGP97.

Reager, J.T. (Ph.D., University of California, Irvine, 2012) Research topic: Land surface modeling and global water cycle dynamics, Current employment, Research Scientist, NASA Jet Propulsion Laboratory, California Institute of Technology

Tajdarul Hassan Syed (Ph. D., U.C. Irvine, 2007) Research topic: GRACE-based estimates of continental freshwater discharge and the contribution of terrestrial water storage variations to sea level rise. Current employment, Assistant Professor, Indian School of Mines, Dhanbad

Pat J-F. Yeh (Ph.D., MIT, 2002) Research topic: terrestrial water storage variations, groundwater remote sensing. Current employment, Associate Professor, University of Tokyo

Former staff supervision

Callie Brazil, UCCHM Communications and Outreach Coordinator, April 2013-June 30, 2014

Stephanie Castle, UCCHM Data Specialist, July 2009-September 2011, UCCHM Junior Specialist, July 2013-August 2014

Cedric David, UCCHM Project Scientist, July 1, 2012 – August 31, 2014

Rachel Druffel-Rodriguez, UCCHM Junior Specialist, July 2012-June 2013

Jake Edman, UCCHM, Junior Specialist, July 2011-June 2012

Stephanie Ho, UCCHM, Junior Specialist, April 2011-August 2011

Karan Kaushik, UCCHM, Technical Assistant, April 2011-December 2011

Hyungtae Kim, UCCHM Junior Specialist, July 2012-August 2014

Roxanne Murillo, UCCHM Outreach and Communications Intern, July 2012-November 2012

Katalyn Voss, UCCHM Water Policy Fellow, July 2010-June 2014

Jennifer Wilkens, UCCHM Office Manager, July 2010-June 2014

Former Sabbatical Visitors

Prof. Kang-Kun Lee, 2009-2010, UCCHM Sabbatical Visitor, Seoul National University