

THEODORE (TED) GRANTHAM

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PROFESSIONAL EXPERIENCE

Assistant Cooperative Extension Specialist and Assistant Adjunct Professor. Department of Environmental Science, Policy, and Management, University of California – Berkeley. Berkeley, CA. December 2015 – present.

USGS Mendenhall Fellow Research Biologist. U.S. Geological Survey Fort Collins Science Center, Aquatic Sciences Branch. Fort Collins, CO. June 2014 – December 2015.

Postdoctoral Scholar. Center for Watershed Sciences, University of California – Davis. Davis, CA. January 2012 – June 2014.

Fulbright Research Fellow. University of Barcelona. Barcelona, Spain. September 2010 – July 2011.

EDUCATION

2010 Doctor of Philosophy, Department of Environmental Science, Policy, and Management, Division of Ecosystem Sciences, **University of California – Berkeley.**

2000 Bachelor of Science, Biological Sciences, **Stanford University.**

PEER-REVIEWED PUBLICATIONS

26. **Grantham, T.E.**, Zimmerman, J., Carah, J., Howard, J. 2019. Stream flow modeling tools inform environmental water policy in California. *California Agriculture* 73: 33-39.
25. **Grantham, T.E.** 2018. North Coast Summary Report. California's Fourth Climate Change Assessment. Publication number: SUM-CCC4A-2018-001.
24. **Grantham, T.E.**, Carlisle, D.M., McCabe, G.J. & Howard, J.K. 2018. Sensitivity of streamflow to climate change in California. *Climatic Change* 149:427-441
23. Fernando, N., Morrison, R.R., Annis, A., **Grantham, T.E.** 2018. Hydrologic scaling for hydrogeomorphic floodplain mapping: Insights into human-induced floodplain disconnectivity. *River Research and Applications* 34:675-685.
22. Howard, J.K., Fesenmyer, K.A., **Grantham, T.E.**, Viers, J.H., Ode, P.R., Moyle, P.B., Kupferburg, S.J., Furnish, J.L., Rehn, A., Slusark, J. & Mazor, R.D. 2018. A freshwater conservation blueprint for California: prioritizing watersheds for freshwater biodiversity. *Freshwater Science* 37:417-431
21. Kendy, E., Aylward, B., Ziemer, L.S., Richter, B. D., Colby, B.G., **Grantham, T.E.**, Sanchez, L., Dicharry, W.B., Powell, E.M., Martin, S. & Culp, P.W. 2018. Water transactions for streamflow restoration, water supply reliability, and rural economic vitality in the western United States. *JAWRA Journal of the American Water Resources Association* 54: 487-504
20. Zimmerman, J.K., Carlisle, D.M., May, J.T., Klausmeyer, K.R., **Grantham, T.E.**, Brown, L.R., & Howard, J.K. 2017. Patterns and magnitude of flow alteration in California, USA. *Freshwater Biology* 37:417-431.

19. Carlisle, D.M., **Grantham, T.E.**, Eng, K., Wolock, D.M. 2017. Biological relevance of streamflow metrics: regional and national perspectives. *Freshwater Science* 36:927-940.
18. Eng, K., **Grantham, T.E.**, Carlisle, D.M., Wolock, D.M. 2017. Predictability and selection of hydrologic metrics in riverine ecohydrology. *Freshwater Science* 36:915-926.
17. Cid, N., Bonada, N., Carlson, S.M., **Grantham, T.E.**, Gasith, A., Resh, V.H. 2017. High variability is a defining component of Mediterranean-climate rivers and their biota. *Water* 9:1-52.
16. Carlisle, D.M., Wolock, D.M., Howard, J.K., **Grantham, T.E.**, Fesenmyer, K., Wieczorek, M. 2016. Estimating natural monthly streamflows in California and the likelihood of anthropogenic modification. US Geological Survey Open File Report 2016-1189.
15. **Grantham, T.E.**, Fesenmyer, K., Peek, R., Holmes, E., Viers, J.H., Quiñones, R., Bell, A., Howard, J., Moyle P.B. Missing the boat on freshwater ecosystem conservation in California. 2016. *Conservation Letters* 10:77-85.
14. Poff, N.L., Brown, C., **Grantham, T.E.**, Matthews, J., Palmer, M. et al. 2015. Sustainable water management under future uncertainty with eco-engineering decision scaling. *Nature Climate Change* 2765:25-34.
13. Howard, J.K., Klausmeyer, K.R., Fesenmyer, K.A., Furnish, J., Gardali, T., **Grantham, T.E.** et al. 2015. Patterns of freshwater species diversity, endemism, and vulnerability in California. *PLoS ONE* 10:e0130710.
12. **Grantham, T.E.**, Viers, J.H. & Moyle, P.B. 2014. Systematic screening of dams for environmental flow assessment and implementation. *BioScience* 64:1006-1018.
11. **Grantham, T.E.** & Viers, J.H. 2014. 100 years of California's water rights system: patterns, trends and uncertainty. *Environmental Research Letters* 9:1-10.
10. Quiñones, R.M., **Grantham, T.E.**, Harvey, B.N., Kiernan, J.D., Klasson, M., Wintzer, A.P., Moyle, P.B. 2014. Dam removal and anadromous salmonid (*Oncorhynchus* spp.) conservation in California. *Reviews in Fish Biology* 1-21.
9. **Grantham, T.E.**, Mezzatesta, M., Newburn, D. & Merenlender, A. 2014. Evaluating tradeoffs between environmental flow protections and agricultural water security. *River Research and Applications* 30:315-328.
8. **Grantham, T.E.**, de Figueroa, R. & Prat, N. 2013. Water management in mediterranean rivers: a multiregional assessment of physical impacts, ecological responses, and management strategies. *Hydrobiologia* 719:451-482.
7. Kondolf, G.M., Podolak, K. & **Grantham, T.E.** 2013. Restoring Mediterranean-climate rivers. *Hydrobiologia* 719:527-545.
6. **Grantham, T.E.** 2013. Use of hydraulic modelling to assess passage flow connectivity for salmon in streams. *River Research and Applications* 29:250-267.
5. Cañedo-Argüelles, **Grantham, T.E.**, Perrée, I., Rieradevall, M., Prat, N., Céspedes-Sánchez, R. & Martín Alonso, J. 2012. El mesocosmos Sostaqua: recreación de un ecosistema fluvial bajo condiciones experimentales controladas. *Tecnología del Agua* 344-345: 8-54.
4. **Grantham, T.E.**, Newburn, D.A., McCarthy, M.A. & Merenlender, A.M. 2012. The role of stream flow and land use in limiting over-summer survival of juvenile steelhead trout in California streams. *Transactions of the American Fisheries Society* 141:585-598.

3. Cañedo-Argüelles, **Grantham, T.E.**, Perrée, I., Céspedes-Sánchez, R., Rieradevall, M. & Prat, N. 2012. Stream invertebrate community responses to salinization: a mesocosm approach. *Environmental Pollution* 166:144-151.
2. **Grantham, T.E.**, Perrée, I., Cañedo-Argüelles, M., Rieradevall, M. & Prat, N. 2012. A mesocosm approach for detecting stream invertebrate community responses to treated wastewater effluent. *Environmental Pollution* 160:95-102.
1. **Grantham, T.E.**, Merenlender, A. M. & Resh, V.H. 2010. Climatic influences and anthropogenic stressors: an integrated framework for stream-flow management in mediterranean-climate California, USA. *Freshwater Biology* 55(S1):184-200.

REPORTS AND EXTENSION PUBLICATIONS

Howard, J., Fesenmyer, K., **Grantham, T.E.**, et al. 2018. Getting strategic about freshwater biodiversity conservation in California. Blog post to the California WaterBlog, November 4, 2018. <https://californiawaterblog.com/2018/11/04/getting-strategic-about-freshwater-biodiversity-conservation-in-california/>

Yarnell, S., Obester, A., **Grantham, T.E.** et al. 2018. Functional flows for developing environmental flow recommendations. California WaterBlog, 9 December 2018. <https://californiawaterblog.com/2018/12/09/functional-flows-for-developing-ecological-flow-recommendations>

Howard, J., Fesenmyer, K., **Grantham, T.E.** et al. 2018. Getting strategic about freshwater biodiversity conservation in California. California WaterBlog, 4 November 2018. <https://californiawaterblog.com/2018/11/04/getting-strategic-about-freshwater-biodiversity-conservation-in-california/>

Hanak, E., Mount, J., **Grantham, T.E.**, et al. 2018. California's Water. Public Policy Institute of California Water Policy Center.

Mount, J., Hanak, E., **Grantham, T.E.**, et al. 2018. Managing Drought in a Changing Climate: Four Essential Reforms. Public Policy Institute of California Water Policy Center.

Grantham, T.E., Kearns, F., Kocher, S., Roche, L. & Pathak, T. 2017. Building climate change resilience in California through UC Cooperative Extension. *California Agriculture* 71: 197-200.

Matthews, J.H., White, M., Bahije, S., **Grantham, T.E.**, Guillaume, G., Holmgren, T., Kerres, M., Krahl, D., Lahham, N., Lundquist, J., Marre, F., Marta, S., Rodrigues, D., Thiem, M., Timmerman, J., Unver, O., van de Guchte, C., Vlaanderen, N. & Whiting, L. 2017. A thirst for food resilience: Integrating UNFCCC and SDG policies for food and agriculture. *Global Water Forum*.

Mount, J., Gray, B., Chappelle, C., **Grantham, T.**, Moyle, P., Seavy, N., Szeptycki, L. & Thompson, B. 2017. Managing California's Freshwater Ecosystems: Lessons from the 2012-16 Drought. Public Policy Institute of California Water Policy Center.

Mount, J., Gray, B., Chappelle, C., Doolan, J., **Grantham, T.** & Seavy, N. 2016. Managing water for the environment during drought: lessons from Victoria, Australia. Public Policy Institute of California Water Policy Center.

Howard, J.K., Klausmeyer, K.R., Fesenmyer, K.A., Furnish, J., Gardali, T., **Grantham, T.** et al. 2015. California Freshwater Conservation Blueprint: Phase I Overview. The Nature Conservancy.

Grantham, T. & Moyle P.B. 2014. Identifying problem dams for fish survival. California WaterBlog, 22 October 2014. <http://californiawaterblog.com/2014/10/22/identifying-problem-dams-for-fish-survival>

Grantham, T. & Moyle, P.M. 2014. Assessing flows for fish below dams: a systematic approach to evaluate compliance of California's dams with Fish and Game Code Section 5937. Center for Watershed Sciences, U.C. Davis, California.

Grantham, T. & Viers, J. 2014. California water rights: You can't manage what you don't measure. California WaterBlog, 20 August 2014. <http://californiawaterblog.com/2014/08/20/california-water-rights-you-cant-manage-what-you-dont-measure/>

Merenlender A., Deitch, M., Trafton, A. & **Grantham, T.** 2010. Estimating upland stream flow in the Russian River watershed, Final Report to the Sonoma County Water Agency, January 2010. U.C. Berkeley, California.

Natali, J., Kondolf, M., Landeiro, J., Christian-Smith, J. & **Grantham, T.**, 2009. A living Mediterranean river: restoration and management of the Rio Real in Portugal to achieve good ecological status. University of California, Water Resources Center Contribution #209.

Grantham, T., Christian-Smith, J., Kondolf, G.M. & Scheuer, S. 2008. A fresh perspective for managing water in California: insights from applying the European Water Framework Directive to the Russian River. University of California, Water Resources Center Contribution #208.

INVITED SEMINARS

Grantham, T. "North Coast Regional Report of California's 4th Climate Assessment." Invited speaker at the North Coast Climate Symposium. Eureka, CA. December 13, 2018.

Grantham, T. "Managing water for the environment in a changing climate." Invited speaker to the annual meeting of UC Water. Sacramento, CA. October 26, 2018.

Grantham, T. "Overview of the California Environmental Flows Framework." Invited speaker to the quarterly meeting of the California Advisory Committee on Salmon and Steelhead Trout. Sacramento, CA. October 25, 2018.

Grantham, T. "Freshwater science in the University of California system." Invited speaker at the California Bioassessment Workgroup Annual Meeting. Davis, CA. October 24, 2018.

Grantham, T. "California water management and the Sacramento-San Joaquin Delta." Invited speaker for the California Naturalist Program. Walnut Creek, CA. September 10, 2018.

Grantham, T. "California's Fourth Climate Assessment: North Coast Region." Invited Speaker to California Climate Adaptation Forum. Sacramento, CA. August 27, 2018.

Grantham, T. "Cannabis and the environment in California." Invited speaker to UC Berkeley Water Group. Berkeley, CA. March 5, 2018.

Grantham, T. "California cannabis production and water impacts." UC Davis Winter Quarter Seminar on the Science and Policy of Environmental Flows. Davis, CA. February 26, 2018.

Grantham, T. "Climate change, water, and freshwater ecosystems." Invited speaker to UC ANR Climate Change Workshop. Parlier, CA. February 6, 2018.

Grantham, T. "California water management and the Sacramento-San Joaquin Delta." Invited speaker to the California Naturalist Program. Walnut Creek, CA. September 25, 2017.

Grantham, T. "Defining performance indicators for freshwater ecosystems and climate

adaptation services.” Invited speaker to workshop hosted by World Wildlife Fund and focused on Mexico’s Water Reserve Program. Mexico City, Mexico. May 11, 2017.

Grantham, T. “Managing freshwater ecosystems under climate uncertainty.” Invited speaker to Point Blue lunch seminar series. Petaluma, CA. February 16, 2017.

Grantham, T. “Managing freshwater ecosystems under hydroclimatic uncertainty.” Invited speaker in UC Berkeley Wildlife, Fisheries, and Conservation Seminar. Berkeley, CA. March 11, 2016.

Grantham, T. “Balancing human and ecosystem needs in managed rivers.” Invited speaker in Humboldt State University Fisheries Department Seminar. Arcata, CA. September 21, 2015.

Grantham, T. “Balancing human and ecosystem needs in managed hydrosystems.” Invited speaker, UC Berkeley Environmental Science, Policy, and Management Departmental Seminar. Berkeley, CA. February 19, 2015.

Grantham, T. “Incorporating ecological flows in water resources planning and management.” Invited speaker, USGS Fort Science Center lunch seminar series. Fort Collins, CO. August 28, 2014.

Grantham, T. “Reconciliation approaches for large-scale freshwater ecosystem management.” Invited speaker, USGS National Research Program Seminar Series. Reston, VA. April 10, 2014.

Grantham, T. “Evaluation of California water rights to reveal hidden patterns and trends of river ecosystem impacts.” Invited speaker, School of Engineering, Environmental Systems Seminar Series, University of California, Merced. Merced, CA. October 30, 2013.

Grantham, T. “Spatial analyses of water use pressures to guide freshwater conservation in California.” Invited speaker, Landscape Architecture and Environmental Planning Department Colloquium, UC Berkeley. Berkeley, CA. October 22, 2013.

Grantham, T. “Approaches to support environmental flow management in California rivers.” Invited speaker, State Water Resources Control Board, Public Trust Division. Sacramento, CA. September 19, 2013.

Grantham, T. & Merenlender, A.M. “Vineyard water security and environmental tradeoffs.” Invited speaker, Vinecology Meeting. Oakville, CA. April 26, 2013.

Grantham, T. “Investigations on salmon flow requirements in the Russian River Basin.” Invited speaker, Russian River Independent Science Review Panel. Santa Rosa, CA. January 11, 2013.

Grantham, T. “Evaluating dams for environmental flow management.” Invited speaker, National Marine Fisheries Service, Southwest Fisheries Science Center. Santa Cruz, CA. December 11, 2012.

Grantham, T. “The role of streamflow and land use in limiting over-summer survival of juvenile steelhead trout.” Invited speaker, National Marine Fisheries Service, Southwest Region. Santa Rosa, CA. May 29, 2012.

Grantham, T. “Managing water for human and ecosystem needs in Mediterranean-climate California.” Invited speaker in Department of Ecology Seminar Series, University of Barcelona. Barcelona, Spain. January 28, 2011.

Grantham, T. “Managing water for human and ecosystem needs in Mediterranean-climate California.” Invited speaker, State Water Resources Control Board, Water Rights Division. Sacramento, CA. July 14, 2010.

CONFERENCE PRESENTATIONS

Yarnell, S., **Grantham, T.**, Viers, J., Bernacchi, L. 2018. "Getting students wet: Key lessons from immersive education on California water policy, science, and management." Poster at the Annual Meeting of the American Geophysical Union. Washington DC. December 14, 2018.

Vander Vorste, R., Obedzinski, M., Nossaman Pierce, S., **Grantham, T.** & Carlson, S. "Abiotic drivers of juvenile Coho salmon survival in intermittent streams." Oral presentation at the Annual Meeting of the California Aquatic Bioassessment Workgroup. Davis, CA. October 24, 2018.

Grantham, T. "Eco-engineering decision scaling: A framework for incorporating freshwater ecosystems in water management decision-making and climate risk assessment." Oral presentation at the Annual Meeting of the Society for Freshwater Science. Detroit, MI. May 23, 2018.

Vander Vorste, R., Obedzinski, M., Nossaman Pierce, S., **Grantham, T.** & Carlson, S. "Isolated stream pools: A bottleneck for survival of endangered Coho salmon in northern California." Oral presentation at the Annual Meeting of the Society for Freshwater Science. Detroit, MI. May 23, 2018.

Moidu, H., Leidy, R., **Grantham, T.** & Carlson, S. "Linking landscape-level processes and aquatic refugia in intermittent streams of Central California." Poster at the Annual Meeting of the Society for Freshwater Science. Detroit, MI. May 21, 2018.

Kastl, B., **Grantham, T.**, Carlson, S., Obedzinski, M. & Nossaman Pierce, S. "Understanding landscape drivers of endangered coho salmon outmigration timing to maximize returns to the Russian River, California." Poster at the Annual Meeting of the Society for Freshwater Science. Detroit, MI. May 21, 2018.

Zimmerman, J., Carlisle, D., Howard, J., **Grantham, T.**, Brown, L., May, J., Klausmeyer, K., Stein, E., Yarnell, S., Sandoval, S., Lane, B. & Lusardi, R. "Flow alteration and functional flow metrics for California streams." Oral presentation at the Annual Meeting of the Society for Freshwater Science. Detroit, MI. May 21, 2018.

Rossi, G. & **Grantham, T.** "A study of aquatic habitat and fish behavioral response to enhanced flows in a Russian River tributary." Oral presentation at the annual meeting of the Salmonid Restoration Federation. Fortuna, CA. April 11, 2018.

Grantham, T. "California's Fourth Climate Assessment: Progress Update." Oral presentation at the UC ANR Statewide Conference. Ontario, CA. April 10, 2018.

Nardi, F., Morrison, R. R., Annis, A. & **Grantham T.** "Hydrologic scaling and hydrogeomorphic floodplain delineation in urbanized basins: insights into human-induced disconnectivity of fluvial corridors." European Geophysical Union General Assembly. Vienna, Austria. April 9, 2018.

Grantham, T. "Predicting functional flows at ungaged locations in California." Annual meeting of the Cal-Neva Chapter of the American Fisheries Society. Eureka, CA. April 7, 2017.

Stein, E., Yarnell, S., **Grantham, T.** et al. "Overview of a three-tiered framework for establishing environmental flows for California streams." Annual meeting of the Cal-Neva Chapter of the American Fisheries Society. Eureka, CA. April 7, 2017.

Yarnell, S., Stein, E., **Grantham, T.** et al. "Developing Tier 1 environmental flow targets using a functional flow approach." Annual meeting of the Cal-Neva Chapter of the American Fisheries Society. Eureka, CA. April 7, 2017.

Brown, L., Stein, E., **Grantham, T.** et al. "Estimating unimpaired streamflow for California streams and an initial analysis of statewide streamflow impairment." Annual meeting of the Cal-

Neva Chapter of the American Fisheries Society. Eureka, CA. April 7, 2017.

Grantham, T. “Impacts of climate change on streamflows and freshwater ecosystems.” U.C. Division of Ag and Natural Resources Strategic Initiatives Conference. Ontario, CA. March 15, 2017.

Morrison, R., Dong, Q., Nardi, F., **Grantham, T.** & Annis, A. 2016. “Levee Presence and Wetland Areas within the 100-Year Floodplain of the Wabash Basin.” Oral presentation at the annual meeting of the American Geophysical Union. December 2016.

Grantham, T. “Sensitivity of streamflow to climate change in California.” Oral presentation at the annual meeting of the Society for Freshwater Science. Sacramento, CA. May 23, 2016.

Grantham, T. “A hydrogeomorphic approach for large-scale floodplain mapping.” American Water Resources Association Specialty Conference on GIS and Water Resources. Oral Presentation. Sacramento, CA. July 11, 2016.

Grantham, T., Carlisle, D., Wolock, D., McCabe, G., Wiczorek, M., Howard, J. “Sensitivity of streamflow to climate change in California.” Poster and AGU Annual Meeting. San Francisco, CA. December 16, 2015.

Grantham, T., Eng, K., Wolock, D., Carlisle, D. “Predictability of hydrologic metrics.” Oral presentation at the Society of Freshwater Science Annual Meeting. Milwaukee, WI. May 19, 2015.

Grantham, T. “Ecological Decision Scaling: A framework for incorporating ecological principles in water management decision making.” Oral presentation at the AGU Annual Meeting. San Francisco, CA. December 16, 2014.

Grantham, T. “Missing the boat on freshwater ecosystem conservation in California.” Oral presentation at the Ecological Society of America Annual Meeting. Sacramento, CA. August 15, 2014.

Grantham, T. & Viers, J.H. “Evaluation of water rights to reveal hidden patterns and trends in California water management.” Poster at the AGU Fall Meeting. San Francisco, CA. December 11, 2013.

Grantham, T. & Moyle, P.M. “Prioritization framework for improving environmental flows below dams in California.” Oral Presentation at the Annual Meeting of the California-Nevada Chapter of the American Fisheries Society Meeting. Davis, CA. April 6, 2013.

Grantham, T. & Moyle, P.M. “Prioritizing dams in California for environmental flow recovery.” Oral presentation at the American Fisheries Society Annual Conference. Minneapolis, MN. August 23, 2012.

Grantham, T. & Moyle, P.M. “Prioritization framework for improving environmental flows below dams in California.” Poster at the Society for Conservation Biology North American Congress. Oakland, CA. July 16, 2012.

Grantham, T. “Use of hydraulic modeling to assess fish passage flow connectivity for salmon in streams.” Oral presentation at the American Fisheries Society Annual Conference. Seattle, WA. September 5, 2011.

Grantham, T., Perrée, I., Cañedo-Argüelles, M., Rieradevall, M. & Prat, N. “Stream macroinvertebrate community response to treated wastewater in a mesocosm experiment.” Poster at the Symposium for European Freshwater Sciences. Girona, Spain. June 28, 2011.

Grantham, T. “Use of two-dimensional hydraulic modeling to assess passage flow connectivity

for salmon in streams.” Oral presentation at the Symposium for European Freshwater Sciences. Girona, Spain. June 27, 2011.

Grantham, T. “Managing water for human and ecosystem needs in Mediterranean-climate California.” Oral presentation at the Department of Environmental Science, Policy & Management Graduate Research Symposium, University of California, Berkeley. Berkeley, CA. May 7, 2010.

Grantham, T., Merenlender, A. & Resh, V. “An integrated framework for streamflow management in Mediterranean climate streams: examples from Sonoma County, California.” Oral presentation at the Joint American Fisheries Society Cal-Nevada Chapter and Salmonid Restoration Federation Annual Conference. Redding, CA. March 13, 2010.

Grantham, T., Newburn, D., McCarthy, M. & Merenlender, A. “Effects of summer flow variability on juvenile salmonid survival in coastal California streams.” Oral presentation at the American Fisheries Society Annual Meeting. Ottawa, Canada. August 20, 2008.

Grantham, T., Newburn, D., McCarthy, M. & Merenlender, A. “Summer flow variability and juvenile steelhead survivorship in Russian River tributary streams.” Oral presentation at the Salmonid Restoration Federation Annual Conferences. Santa Rosa, CA. March 10, 2007.

RESEARCH GRANTS

Grantham, T.E. California Wildlife Conservation Board: Porter Creek Stream Flow Enhancement, Phase II, Sonoma County. 2019. \$530,000

Butsic, V. and **Grantham, T.E.** Resources Legacy Fund Grant: Cannabis Research. 2019. \$100,000.

Butsic, V. and **Grantham, T.E.** Renewable Resources Extension Act Student Intern Grant. 2018-2019. \$4,000.

Grantham, T.E. Renewable Resources Extension Act Project Grant: Integrating Climate Change in UC Extension Workshop. 2018-2019. \$15,000.

Grantham, T.E. California State Resources Control Board: California Environmental Flows Framework. 2018-2019. \$669,421 (\$137,318 to UCB).

Grantham, T.E. UC Berkeley Social Science Matrix Workgroup Grant: Cannabis Research Center. 2018-2019. \$5,000.

Grantham, T.E. California Institute for Water Resources Early Career Investigator Grant: Fish habitat response to streamflow augmentation in the Russian River Basin. 2017-2018. \$25,000.

Carlson, S. and **Grantham, T.E.** California Wildlife Conservation Board Grant: Flow and Survival Studies to Support Endangered Coho Recovery in Flow-Impaired Tributaries of the Russian River Basin. \$958,512 (\$367,101 to UCB).

Grantham, T.E. US Department of Agriculture Conservation Innovation Grant: Scaling Pay-For-Success Market Opportunities in California’s Central Valley. \$498,888 (\$52,491 to UCB).

AWARDS AND HONORS

USGS Mendenhall Postdoctoral Research Fellowship, 2012-2014.

Best Reviewer Award, 2014 Journal of Water Resources Planning and Management (ASCE-EWRI)

U.S. Scholar Fulbright Fellowship, 2010-2011.
Edward A. Colman Watershed Fellowship, 2010.
National Science Foundation Graduate Research Fellowship, 2005-2008.
Phi Beta Kappa, 2000.
Krupp Foundation Internship Grant, 1999.
Bing Undergraduate Research Fellowship, 1998.
Robert C. Byrd Honors Scholarship, 1996.
George C. Jacobs Scholarship, 1996.

PROFESSIONAL AFFILIATIONS

Society for Freshwater Science; American Geophysical Union; Salmonid Restoration Federation

TEACHING

UC Forestry Camp, Visiting Instructor. Planned and taught 2-day field course on freshwater ecology in forested landscapes at the UC Forestry Camp. Quincy, CA. June 2018.

UC Water Academy, Lead Instructor. Organized and co-taught course on California water, including weekly discussion session in spring semester, followed by 10-day immersive field experience. January – July 2017 and January – July 2018.

Grantham, T. “Water Accounting in California.” Guest lecture in Water Resources Management Planning (UC Merced, School of Engineering, ENVE 140). Merced, CA. April 19, 2018.

Grantham, T. “Closing the research to policy gap: perspectives from California Water.” Guest lecture in Data Science for the 21st Century (UC Berkeley, Data Sciences, DS421). Berkeley, CA. April 18, 2018.

Grantham, T. “Large rivers and dams.” Guest lecture in Fish Ecology (UC Berkeley, ESPM, ESPM 115C). Berkeley, CA. February 1, 2018.

Grantham, T. “New approaches for managing environmental water in California.” Guest lecturer for the Environmental Law Colloquium, UC Berkeley Boalt Law School. April 13, 2017.

Grantham, T. “Legal and policy perspectives on managing water for the environment.” Guest lecture in California Water (ERG 190). Berkeley, CA. July 14, 2016.

Grantham, T. “Managing water in decentralized systems.” Guest lecture in Water Resources Management Planning (UC Merced, School of Engineering, ENVE 140). Merced, CA. April 19, 2016.

Grantham, T. “Managing for ecosystem resilience.” Guest lecture in Freshwater Ecology (UC Berkeley, Dept. of Integrative Biology, IB 171). Berkeley, CA. April 5, 2016.

Grantham, T. “Balancing human and ecosystem needs in managed hydrosystems.” Guest lecture in Environmental Data Analysis (UC Merced, School of Engineering, ES 207). Merced, CA. April 19, 2016.

UNIVERSITY SERVICE

Cooperative Extension Specialist Executive Committee, College of Natural Resources. July 2017 – July 2018 (President Elect) and July 2018 – present (President).

Sustainable Natural Ecosystems Strategic Initiative, Advisory panel member. U.C. Division and Agriculture and Natural Resources. July 2018 – present.

Climate Change Program Team, Co-Chair. U.C. Division and Agriculture and Natural Resources. November 2017 – present.

Associate Editor, California Agriculture Journal, Natural Resources subject area. U.C. Division and Agriculture and Natural Resources. March 2016 – present.

Graduate Admissions Committee, Ecosystem Sciences Division of the Department of Environmental Science, Policy, and Management. 2018 and 2019.

California Institute for Water Resources Early Career Grant Program, Proposal reviewer. U.C. Division and Agriculture and Natural Resources. November 2018.

Graduate Students in Extension, Applicant review committee. Department of Environmental Science, Policy, and Management. April 2017.

PUBLIC SERVICE

North Coast Region Climate Change Report of California's 4th Climate Assessment, Coordinating Lead Author. September 2017 – September 2018.

Delta Stewardship Council Vulnerability Assessment, Technical Advisory Committee member. November 2018 – present.

California Advisory Committee for Salmon and Steelhead Trout, Science Advisor Committee member. June 2018 – present.

Environmental Flows Workgroup of the California Water Quality Monitoring Council, member. August 2017 – present.

Universities Council on Water Resources, Delegate of the U.C. Division of Agriculture and Natural Resources. March 2016 – present.

Russian River Coho Water Resources Partnership, Technical Advisory Committee member. March 2016 – present.

Lagunitas Creek Floodplain Study, Technical Advisory Committee member, January 2015 – present.

Public Policy Institute of California Water Policy Center, Research Networks Advisor, January 2015 – present.

Water Audit, Technical Advisory Committee Member. June 2014 – present.

California State Water Resources Control Board, Development of Numeric Flow Criteria to Support Freshwater Bio-Objectives, Hydromodification Management, and Nutrient Numeric Endpoints (aka Flow-Ecology). Technical advisory committee member. 2014 –2016.

California Reservoirs Database Project, Advisory group member. California Lake Management Society (CALMS) & McCord Environmental, Inc. November 2014 – April 2016.

PROFESSIONAL ACTIVITIES

North Coast Climate Science Symposium, Organizer and presenter. Eureka, CA, December 13-14, 2018.

UC Berkeley Social Science Matrix Working Group on Cannabis and the Environment, Organizer. UC Berkeley, CA, September 2018 – present.

National Center for Ecological Analysis and Synthesis (NCEAS), Science for Nature and People (SNAP) Workshop, Invited Participant. “Assessing the Water Quantity Benefits that Flow from Source Water Protection,” Santa Barbara, CA, June 2018 – present.

Integrating Climate Change in California Cooperative Extension Programs Workshop and Professional Development, Organizer. Kearney Research and Extension Center, CA, February 2018.

World Bank Resilient Water Decisions Workshop, Invited Participant. Washington D.C., February 2018.

Examining Mexico’s Water Reserves Program as an Ecosystem-Based Adaptation Instrument, Invited Participant, World Wildlife Fund, CONAGUA, and the Inter-American Development Bank Workshop, Mexico City, April 2017.

Southwest Extension Climate Workshop, Invited Participant. Tucson, AZ, December 2016.

Stream Hydrology for Ecologists Workshop, Instructor, Society for Freshwater Science Annual Meeting, Sacramento, CA, May 2016.

Creating Climate National Center for Ecological Analysis and Synthesis (NCEAS), Science for Nature and People (SNAP) Workshop, Invited Participant. “Water Transactions to Enhance Streamflow, Water Supply Reliability, and Rural Economic Viability in the Western United States” Santa Barbara, CA, March 2015 – December 2017.

Workshop on Global Indicator for Sustainable Water Use, Invited Participant, World Bank Group and Korea Environment Institute, Washington DC, November 2014.

Session Presider, Conservation Planning, Policy and Theory (COS 129), 2014 Ecological Society for America Annual Meeting, Sacramento, CA, August 14, 2014.

NSF SESYNC Workshop, Invited Participant, “Climate Change & Water Resources Adaptation: Decision Scaling & Integrated Eco-Engineering Resilience” Annapolis, MD, 2013 – 2014.

EPA Star Grant Program, Peer Review Panel Member, Center for Water Research on National Priorities Related to a Systems View of Nutrient Management (EPA STAR – H1), Washing DC, April 2013.

Conference Abstract Review Committee, Society for Conservation Biology North America Congress, 2012.

Graduate Student Representative, UC Berkeley Department of Environmental, Science, Policy, and Management, Ecosystem Sciences Division, 2009 – 2010.

JOURNAL PEER-REVIEWER

Journal of the American Water Resources Association, Water Resources Research, Environmental Management, Ecosphere, Ecological Applications, BioScience, Ecohydrology, Conservation Biology, Transactions of the American Fisheries Society, Water Research, Marine and Freshwater Research, River Research and Applications, Journal of Applied Ecology, Science of the Total Environment, Environmental Engineering Science, Journal of Water Resources Planning and Management, Water, Environmental Biology of Fishes, Ecological Modelling, Freshwater Science, Biological Invasions, Freshwater Biology, Ecological Engineering