

THEODORE (TED) GRANTHAM

CURRICULUM VITAE

Assistant Cooperative Extension Specialist
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PROFESSIONAL EXPERIENCE

1. Assistant Cooperative Extension Specialist and Assistant Adjunct Professor. Department of Environmental Science, Policy, and Management, University of California. Berkeley, CA. December 2015 – present.
2. USGS Mendenhall Fellow Research Biologist. U.S. Geological Survey Fort Collins Science Center, Aquatic Sciences Branch. Fort Collins, CO. June 2014 – December 2015.
3. Postdoctoral Scholar. Center for Watershed Sciences, University of California. Davis, CA. January 2012 – June 2014.
4. Fulbright Research Fellow. University of Barcelona. Barcelona, Spain. September 2010 – July 2011.
5. Graduate Student Researcher. University of California. Berkeley, CA. September 2008 – August 2010.
6. National Science Foundation Graduate Research Fellow. University of California. Berkeley, CA. September 2006 – August 2008.

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.

FUNDING

1. Kahn, S. and **Grantham, T.** California Natural Resources Agency. “Climate Informed Spatial Analysis and Restoration Priority Planning for AB2551 Watersheds,” 2021-2022. \$950,000 (\$140,000 UCB)
2. **Grantham, T.** California Department of Fish and Wildlife. “Cannabis Water Demand and Instream Flow Assessment,” 2021-2022. \$208,116.
3. Yarnell, S. and **Grantham, T.** California Department of Fish and Wildlife. “Resiliency of California fishes: Assessing native fish sensitivity to changes in wet and dry season baseflows,” 2021-2023. \$799,999 (\$304,098 UCB)
4. **Grantham, T.** and Power, M. Bureau of Cannabis Control. “Cannabis Water-Use Impacts to Streamflow and Temperature in Salmon-Bearing Streams,” 2021-2022. \$314,417
5. Butsic, V. and **Grantham, T.** Bureau of Cannabis Control. “Cannabis and wildfire risk: current conditions, future threats, and solutions for farmers”, 2021-2022. \$319,091.
6. Butsic, V. and **Grantham, T.** Resources Legacy Fund Grant. “Cannabis Research,” 2020-2022. \$300,000.
7. **Grantham, T.** and Kastl, B. Sea Grant College Program Grant. “Managing water for Coho salmon and communities,” 2020-2021. \$35,497.
8. **Grantham, T.**, Butsic, V., and Stackhouse, J. Renewable Resources Extension Act Grant. 2020. \$8,000.
9. **Grantham, T.** California Wildlife Conservation Board Grant. “Porter Creek Streamflow Enhancement Project,” 2019-2021. \$530,366
10. Butsic, V. and **Grantham, T.** Resources Legacy Fund Grant. “Cannabis Research,” 2019. \$100,000.
11. **Grantham, T.**, Kocher, S., and Kearns, F. Renewable Resources Extension Act Project Grant. “Integrating Climate Change in UC Extension Workshop,” 2019. \$15,000.
12. Butsic, V. and **Grantham, T.** Renewable Resources Extension Act Student Intern Grant. 2018. \$4,000.
13. Kocher, S., Kearns, T. and **Grantham, T.** Renewable Resources Extension Act Project Grant. “Integrating Climate Change in UC Extension Workshop,” 2018. \$15,000.
14. Carlson, S. and **Grantham, T.** 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).
15. **Grantham, T.** California State Resources Control Board. “California Environmental Flows Framework” 2018-2019. \$750,000 (\$137,318 to UCB).
16. **Grantham, T.** UC Berkeley Social Science Matrix Workgroup Grant. “Cannabis Research Center,” 2018-2019. \$5,000.
17. **Grantham, T.** California Institute for Water Resources Early Career Investigator Grant. “Fish habitat response to streamflow augmentation in the Russian River Basin,” 2017-2018. \$25,000.
18. **Grantham, T.** US Department of Agriculture Conservation Innovation Grant. “Scaling Pay-For-Success Market Opportunities in California’s Central Valley,” 2017-2019. \$498,888 (\$52,491 to UCB).

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AWARDS AND HONORS

1. Public Policy Institute of California Water Policy Center Adjunct Research Fellow, 2019 – present.
2. Public Policy Institute of California-California Trout (PPIC-CalTrout) Ecosystem Fellow, 2019-2020.
3. American Water Resources Association Boggess Award first runner up for best paper published in the Journal of the American Water Resources Association in 2019
4. USGS Mendenhall Postdoctoral Research Fellow, 2012-2014.
5. Best Reviewer Award, 2014 Journal of Water Resources Planning and Management (ASCE-EWRI)
6. U.S. Scholar Fulbright Fellow, 2010-2011.
7. National Science Foundation Graduate Research Fellow, 2006-2008.
8. Phi Beta Kappa nomination, Stanford University, 2000.

PEER-REVIEWED PUBLICATIONS

Note: Bold numbers are publications since appointment at UC Berkeley. Underlined authors are postdoctoral students under my supervision.

35. Dillis, C., Biber, E., Bodwitch, H., Butsic, V., Carah, J., Parker-Shames, P., and **Grantham, T.E.** In Press. Shifting geographies of legal cannabis production in California. Land Use Policy [page numbers not yet assigned].
34. Comte, L., **Grantham, T.E.**, Ruhi, A. 2021. Human stabilization of river flows is linked with fish invasions across the United States. Global Ecological and Biogeography [page numbers not yet assigned]
33. Dillis, C., McIntee, C., Butsic, V., Le, L., Grady, K., and **Grantham, T.E.** 2020. Water storage and irrigation practices drive seasonal patterns of water extraction and use in Northern California. Journal of Environmental Management 272: 110955.
32. Vander Vorste, R., Obedzinski, M., Nossaman Pierce, S., Carlson, S.M. & **Grantham, T.E.** 2020. Refuges and ecological traps: extreme drought threatens persistence of an endangered fish in intermittent streams. Global Change Biology 26: 3834-3845.
31. Yarnell, S.M., Stein, E.D., Webb, J.A., **Grantham, T.E.**, Lusardi, R.A., Zimmerman, J., Peek, R.A., Lane, B.A., Howard, J. & Sandoval-Solis, S. 2020. A functional flows approach to selecting ecologically relevant flow metrics for environmental flow applications. River Research and Applications 36: 318-324.
30. **Grantham, T.E.**, Matthews, J.H. & Bledsoe, B.P. 2019. Shifting currents: Managing freshwater systems for ecological resilience in a changing climate. Water Security 8: 100049.
29. Wilson, H., Bodwitch, H., Carah, J., Danne, K., Getz, C., **Grantham, T.E.** & Butsic, V. 2019. First known survey of cannabis production practices in California. California Agriculture 73: 119-127
28. Dillis, C., **Grantham, T.E.**, McIntee, C., McFadin, B. & Grady, K. 2019. Watering the Emerald Triangle: Irrigation sources used by cannabis cultivators in Northern California. 73: 146-153
27. Bodwitch, H., Carah, C., Daane, K., Getz, C., **Grantham, T.E.**, Hickey, G. & Wilson, H. 2019. Growers say cannabis legalization excludes small growers, supports illicit markets, undermines local economies. 73: 177-184.
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. & Mazon, 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.

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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

Note: Bold numbers are publications since appointment at UC Berkeley. Underlined authors are postdoctoral students under my supervision and asterisks indicate peer-reviewed products.

28. Butsic, V., Biber, E., Bodwitch, H., Carah, J., Dillis, C., **Grantham, T.**, Parker-Shames, P., Polson, M. 2021. Science Brief: Land Use in Cannabis Agriculture. Cannabis Research Center, University of California, Berkeley, California.
27. Parker-Shames, P., Bodwitch, H., Butsic, V., Biber, E., Carah, J., Dillis, C., **Grantham, T.**, Polson, M. 2021. Science Brief: Cannabis Agriculture and Wildlife. Cannabis Research Center, University of California, Berkeley, CA.
26. Butsic, V., Biber, E., Bodwitch, H., Carah, J., Dillis, C., **Grantham, T.**, Polson, M., Parker-Shames, P. 2020. Science Brief: Cannabis Agriculture 101. Cannabis Research Center, University of California, Berkeley, California
25. Dillis, C., **Grantham, T.**, Butsic, V., Carah, J., Parker-Shames, P. 2020. Science Brief: Water Use in Cannabis Agriculture. Cannabis Research Center, University of California, Berkeley, CA.
24. Bodwitch, H., Polson, M., Biber, E., Butsic, V., Carah, J., Dillis, C., **Grantham, T.**, Parker-Shames, P. 2020. Science Brief: Barriers to Compliance in Cannabis Agriculture. Cannabis Research Center, University of California, Berkeley, CA.
23. ***Grantham, T.**, Mount, J., Stein, E.D., Yarnell, S. 2020. Making the Most of Water for the Environment: A Functional Flows Approach for California's Rivers. Public Policy Institute of California. August 2020.
22. **Grantham, T.**, Howard, J. Lane, B., Lusardi, R., Sandoval-Solis, S., Stein, E., Yarnell, S., Zimmerman, J. Functional flows can improve environmental water management in California. California WaterBlog, 29 November 2020, <https://californiawaterblog.com/2020/11/29/functional-flows-can-improve-environmental-water-management-in-california/>

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21. **Grantham, T.** and Mount, J. 2020. New approach needed to protect the health of California's rivers. Guest Commentary on CalMatters.org, 4 September 2020, <https://calmatters.org/commentary/my-turn/2020/09/new-approach-needed-to-protect-health-of-californias-rivers/>
20. *Mount, J., Gray, B., Bork, K., Cloern, J.E., Davis, F.W., **Grantham, T.**, Grenier, L., Harder, J., Kuwayama, Y., Moyle, P., Schwartz, M.W., Whipple, A., Yarnell, S. A Path Forward for California's Freshwater Ecosystems. Public Policy Institute of California. December 2019.
20. *Eng, K., Carlisle, D.M., **Grantham, T.**, Wolock, D.M., and Eng, R.L., 2019, Severity and extent of alterations to natural streamflow regimes based on hydrologic metrics in the conterminous United States, 1980–2014: U.S. Geological Survey Scientific Investigations Report 2019–5001, 25 p., <https://doi.org/10.3133/sir20195001>.
19. *Carlisle, D.M., **Grantham, T.**, Eng, K., Wolock, D.M., 2019, Regional-scale associations between indicators of biological integrity and indicators of streamflow modification: U.S. Geological Survey Open-File Report 2019–1088, 10 p., <https://doi.org/10.3133/ofr20191088>.
18. *Carlisle, D.M., Wolock, D.M., Konrad, C.P., McCabe, G.J., Eng, K., **Grantham, T.**, and Mahler, B., 2019, Flow modification in the Nation's streams and rivers: U.S. Geological Survey Circular 1461, 75 p., <https://doi.org/10.3133/cir1461>.
17. Whipple A., **Grantham, T.**, Desanker, G., Hunt, L., Merrill, A., Hackenjos, B. & Askevold, R. 2019. Chinook Salmon Habitat Quantification Tool: User Guide (Version 1.0). Prepared for American Rivers. San Francisco Estuary Institute, Richmond, CA.
16. Howard, J., Fesenmyer, K., **Grantham, T.**, et al. 2018. Getting strategic about freshwater biodiversity conservation in California. Blog post to the California WaterBlog, 4 November 2018, <https://californiawaterblog.com/2018/11/04/getting-strategic-about-freshwater-biodiversity-conservation-in-california/>
15. Yarnell, S., Obester, A., **Grantham, T.** 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>
14. Howard, J., Fesenmyer, K., **Grantham, T.** 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/>
13. Hanak, E., Mount, J., **Grantham, T.**, et al. 2018. California's Water. Public Policy Institute of California Water Policy Center.
12. Mount, J., Hanak, E., **Grantham, T.**, et al. 2018. Managing Drought in a Changing Climate: Four Essential Reforms. Public Policy Institute of California Water Policy Center.
11. **Grantham, T.**, Kearns, F., Kocher, S., Roche, L. & Pathak, T. 2017. Building climate change resilience in California through UC Cooperative Extension. California Agriculture 71: 197-200.
10. Matthews, J.H., White, M., Bahije, S., **Grantham, T.**, 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.
9. *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.
8. 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.
7. 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.
6. **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>
5. **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.
4. **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/>
3. 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.
2. 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.

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1. **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

1. "Managing water for the environment," 12 February 2021. Cal Poly College of Agriculture seminar. Remote.
2. "The California Environmental Flows Framework," 19 January 2021. California Environmental Water Network seminar. Remote.
3. "Modeling natural stream flow in California rivers," 10 December 2020. Napa County groundwater management advisory group meeting. Remote.
4. "California Environmental Flows Framework," 8 December 2020. Northern California Water Association meeting. Remote.
5. "Stream gaging analysis and prioritization tool," 22 October 2020. Senate Bill 19 workgroup meeting. Remote.
6. "Managing water for the environment in a changing climate," 7 October 2020. Oregon State University water seminar. Remote.
7. "Functional flows for California's rivers," 9 April 2020. UC Davis Hydrologic seminar. Remote.
8. "Cannabis in California," 26 February 2020. San Jose Rotary Club. San Jose, CA.
9. "Cannabis water use," 25 February 2020. Indoor Agriculture Energy Solutions conference. La Jolla, CA.
10. "We manage what we measure," 7 February 2020. Napa Water Forum. Napa, CA.
11. "Environmental flow," 14 January 2020. UC ANR Water webinar. Remote.
12. "Cannabis in California," 11 December 2019. American Geophysical Union special session on agriculture. San Francisco, CA.
13. "Functional flows," 12 November 2019. Northern California Water Association meeting, Sacramento, CA.
14. "Managing water for the environment," 25 September 2019. Eel River Forum. Willits, CA.
15. "Cannabis water use research," 5 September 2019. Briefing to the California Governor's Office. Sacramento, CA.
16. "Functional flows in California," 29 August 2019. World Water Week. Stockholm, Sweden.
17. "Cannabis and water," 25 April 2019. Salmonid Restoration Federation Conference workshop on cannabis and instream flows. Santa Rosa, CA.
18. "North Coast Regional Report of California's 4th Climate Assessment" 13 December 2018. North Coast Climate Symposium. Eureka, CA.
19. "Managing water for the environment in a changing climate," 26 October 2018. UC Water annual meeting. Sacramento, CA.
20. "Overview of the California Environmental Flows Framework," 25 October 2018. Quarterly meeting of the California Advisory Committee on Salmon and Steelhead Trout. Sacramento, CA.
21. "Freshwater science in the University of California system," 24 October 2018. California Bioassessment Workgroup Annual Meeting. Davis, CA.
22. "California water management and the Sacramento-San Joaquin Delta," 10 September 2018. California Naturalist Program. Walnut Creek, CA.
23. "California's Fourth Climate Assessment: North Coast Region," 27 August 2018. California Climate Adaptation Forum. Sacramento, CA.
24. "Cannabis and the environment in California," 5 March 2018. UC Berkeley Water Group. Berkeley, CA.
25. "California cannabis production and water impacts," 26 February 2018. UC Davis Winter Quarter Seminar on the Science and Policy of Environmental Flows. Davis, CA.
26. "Climate change, water, and freshwater ecosystems," 6 February 2018. UC ANR Climate Change Workshop. Parlier, CA.
27. "California water management and the Sacramento-San Joaquin Delta," 25 September 2017. California Naturalist Program. Walnut Creek, CA.
28. "Defining performance indicators for freshwater ecosystems and climate adaptation services," 11 May 2017. Workshop hosted by World Wildlife Fund and focused on Mexico's Water Reserve Program. Mexico City, Mexico.
29. "Managing freshwater ecosystems under climate uncertainty," 16 February 2017. Point Blue lunch seminar. Petaluma, CA.
30. "Managing freshwater ecosystems under hydroclimatic uncertainty," 11 March 2016. UC Berkeley Wildlife, Fisheries, and Conservation Seminar. Berkeley, CA.
31. "Balancing human and ecosystem needs in managed rivers," 21 September 2015. Humboldt State University Fisheries Department Seminar. Arcata, CA.
32. "Balancing human and ecosystem needs in managed hydrosystems," 19 February 2015. UC Berkeley Environmental Science, Policy, and Management Departmental Seminar. Berkeley, CA.
33. "Incorporating ecological flows in water resources planning and management," 28 August 2014. USGS Fort Science

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Center lunch seminar series. Fort Collins, CO.

34. "Reconciliation approaches for large-scale freshwater ecosystem management," 10 April 2014. USGS National Research Program Seminar Series. Reston, VA.
35. "Evaluation of California water rights to reveal hidden patterns and trends of river ecosystem impacts," 30 October 2013. School of Engineering, Environmental Systems Seminar Series, University of California, Merced. Merced, CA.
36. "Spatial analyses of water use pressures to guide freshwater conservation in California," 22 October 2013. Landscape Architecture and Environmental Planning Department Colloquium, UC Berkeley. Berkeley, CA.
37. "Approaches to support environmental flow management in California rivers." 19 September 2013. State Water Resources Control Board, Public Trust Division. Sacramento, CA.
38. "Vineyard water security and environmental tradeoffs," 26 April 2013. Vinecology Meeting. Oakville, CA. April 26, 2013.
39. "Investigations on salmon flow requirements in the Russian River Basin," 11 January 2013. Russian River Independent Science Review Panel. Santa Rosa, CA.
40. "Evaluating dams for environmental flow management," 11 December 2012. National Marine Fisheries Service, Southwest Fisheries Science Center. Santa Cruz, CA.
41. "The role of streamflow and land use in limiting over-summer survival of juvenile steelhead trout," 29 May 2012. National Marine Fisheries Service, Southwest Region. Santa Rosa, CA.
42. "Managing water for human and ecosystem needs in Mediterranean-climate California," 28 January 2011. Department of Ecology Seminar Series, University of Barcelona. Barcelona, Spain.
43. "Managing water for human and ecosystem needs in Mediterranean-climate California," 14 July 2010 State Water Resources Control Board, Water Rights Division. Sacramento, CA.
44. "Instream flow needs for salmon and the pursuit of sustainable river management," 16 April 2010. California State University, Stanislaus. Turlock, CA.
45. "Summer flow variability and juvenile steelhead survivorship in Russian River tributary streams," 21 February 2007. Hydrolunch Seminar Series, UC Berkeley. Berkeley, CA.

CONFERENCE PRESENTATIONS

Note: Double-underlined authors are postdoctoral students, underlined authors are graduate students, and italicized authors are undergraduate students under my supervision.

1. **Grantham, T.** 2020. A functional flows modeling approach for setting environmental flow standards in California rivers. California Water and Environmental Modeling Forum 2020. Remote. October 8, 2020.
2. Tu, T., Arumugam, S., Dong, X., Dyckman, C., **Grantham, T.**, Olson, L, Ruddell, B., Ulibarri, N., Ruhi, A. 2019. Sustainable water management in the lower Colorado basin: influence of climate and regulatory context on the ability to meet human and environmental water needs. American Geophysical Union Annual Meeting. San Francisco, CA. December 10, 2019.
3. Matthews, J., **Grantham, T.**, Bledsoe, B., Lopez Gunn, E. 2019. Ecological resilience in an engineer's world: water, nature-based solutions, and climate adaptation. American Geophysical Union Annual Meeting. San Francisco, CA. December 11, 2019.
4. **Grantham, T.**, Busic, V., Carah, J., and Dillis, C. 2019. Quantifying the water footprint of cannabis agriculture in northern California. American Geophysical Union Annual Meeting. San Francisco, CA. December 11, 2019.
5. **Grantham, T.**, Carlisle, D., Lane, B., Lusardi, R., Howard, J., Stein, E., Sandoval-Solis, S., Yarnell, S., Zimmerman, J. A functional flows approach for developing environmental flow standards in California. American Geophysical Union Annual Meeting. San Francisco, CA. December 10, 2019.
6. Kastl, B., **Grantham, T.**, Carlson, S., Obedzinski, M., & Nossaman Pierce, S. "Low streamflow is a bottleneck to coho salmon outmigration" California Aquatic Bioassessment Workgroup meeting. Davis, CA. October 24, 2019.
7. Rossi, G., Pneh, S., Slaughter, W., Flynn, K., Power, M., and T. Grantham. 2019. Food webs and salmonid life history across a Mediterranean gradient. American Fisheries Society, oral presentation. Reno, NV. October 2, 2019.
8. *Slaughter, W.*, Rossi, G., *Flynn, K.*, **Grantham, T.**, Obedzinski, M. 2019. The effect of flow augmentation on physical habitat, invertebrate drift, salmonid foraging behavior, and inter-pool movement. American Fisheries Society, oral presentation. Reno, NV. October 2, 2019.
9. Taniguchi-Quan, K., Stein, E., Yarnell, S., Zimmerman, J., Sandoval-Solis, S., Lane, B., Howard, J., **Grantham, T.**, and Lusardi, R. 2019. A coordinated approach for developing statewide environmental flow regulations in California. American Fisheries Society, oral presentation. Reno, NV. October 2, 2019.
10. Kastl, B., **Grantham, T.**, Carlson, S., Obedzinski, M., & Nossaman Pierce, S. "Deep enough to swim? Hydraulic Controls on coho salmon smolt outmigration in the Russian River watershed, CA." American Fisheries Society, oral presentation. Reno, NV. September 30, 2019.
11. Ruhi, A., Comte, L., **Grantham, T.** 2019. Interactive effects of flow regime alteration and propagule pressure in driving large-scale patterns of fish invasion. Society for Freshwater Science Annual Conference. Salt Lake City, UT.

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12. **Grantham, T.**, Lane, B., Lusardi, R., Howard, J., Stein, E., Sandoval-Solis, S., Yarnell, S., Zimmerman, J. 2019. A California Environmental Flows Framework. Society for Freshwater Science Annual Conference. Salt Lake City, UT.
13. Yarnell, S., **Grantham, T.**, Lane, B., Lusardi, R., Howard, J., Peek, R., Stein, E., Sandoval-Solis, S., Zimmerman, J. 2019. An ecosystem-based approach for selecting flow metrics for environmental flow applications. Society for Freshwater Science Annual Conference. Salt Lake City, UT.
14. Lane, B., Yarnell, S., Stein, E., **Grantham, T.**, Zimmerman, J., Howard, J., and Lusardi, R. 2019. California environmental flows (CEFF) tools I. Society for Freshwater Science Annual Conference. Salt Lake City, UT.
15. Carlisle, D., **Grantham, T.**, Lane, B. 2019. California environmental flows (CEFF) tools II: predicting functional flows at ungaged locations. Society for Freshwater Science Annual Conference. Salt Lake City, UT.
16. Stein, E., **Grantham, T.**, Yarnell, S., Sandoval-Solis, S., Lane, B., Zimmerman, J., Howard, J., Lusardi, R. 2019. Application of the California Environmental Flows Framework across a range of flow management needs. Society for Freshwater Science Annual Conference. Salt Lake City, UT.
17. Moidu, H., Vander Vorste, R., Rodrigues Lazano, P., Obedzinski, M., Carlson, S., **Grantham, T.** 2019. Predicting the spatial and temporal distribution of wetted habitats in intermittent streams and its implications for long-term drought impacts. Society for Freshwater Science Annual Conference. Salt Lake City, UT.
18. Vander Vorste, R., **Grantham, T.**, S. Carlson, S. Nossaman-Pierce, M. Obedzinski. 2019. Extreme drought limits survival of endangered coho salmon in intermittent streams. Society for Freshwater Science Annual Conference. Salt Lake City, UT.
19. Dillis, C., McIntee, C., McFadin, B., Le, L., Grady, K., Butsic, V., and **Grantham, T.** Water storage and cultivation practices affect seasonal patterns of water demand of cannabis production in Northern California. 2019. Salmon Restoration Federation Annual Conference. Santa Rosa, CA. April 24, 2019.
20. Woefle-Erskine, C., Carlson, S., **Grantham, T.**, and Rodriguez Lozano, P. 2019. Beyond flow regimes: dissolved oxygen controls on juvenile salmonid health and persistence. Salmon Restoration Federation Annual Conference. Santa Rosa, CA. April 26, 2019.
21. Kastl, B., Obedzinski, M., Carlson, S., Nossaman Pierce, S., **Grantham, T.** 2019. Flows that support coho outmigration: hydraulic controls on downstream movements in the Russian River watershed. Salmon Restoration Federation Annual Conference. Santa Rosa, CA. April 26, 2019.
22. Slaughter, W., Flynn, K., Rossi, G., and **Grantham, T.** 2019. The effects of flow augmentation on invertebrate drift, salmonid foraging behavior, and inter-pool movement in a Mediterranean stream. Salmon Restoration Federation Annual Conference. Santa Rosa, CA. April 26, 2019.
23. Vander Vorste, R., **Grantham, T.**, S. Carlson, S. Nossaman-Pierce, M. Obedzinski. 2019. Effects of extreme drought on juvenile coho salmon survival in the Russian River. Salmon Restoration Federation Annual Conference. Santa Rosa, CA. April 26, 2019.
24. Moidu, H., Vander Vorste, R., Obedzinski, M., Nossaman-Pierce, S., **Grantham, T.**, and Carlson, S. 2019. Predicting the spatial and temporal distribution of wetted habitats in intermittent streams and its implications for long-term drought impacts. Salmonid Restoration Annual Conference. Santa Rosa, CA. April 25, 2019.
25. Rossi, G., Power, M., Carlson, S., **Grantham, T.** A foodscape approach to salmonid ecology and management. Annual Meeting of the Salmonid Restoration Federation. Santa Rosa, CA. April 25, 2019.
26. **Grantham, T.**, Wilson, H., Bodwitch, H., Daane, K., Carah, J., Getz, C., Butsic, V. University of California On-line Grower Survey Characterizes Water Use and Cultivation Practices in California. Annual Meeting of the Salmonid Restoration Federation. Santa Rosa, CA. April 24, 2019.
27. 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.
28. 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.
29. Kastl, B., **Grantham, T.**, Carlson, S., Obedzinski, M., & Nossaman Pierce, S. Low streamflow is a bottleneck to coho salmon outmigration. California Aquatic Bioassessment Workgroup: CA Society for Freshwater Science Meeting oral presentation, Davis CA. October 18, 2019.
30. **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.
31. 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.
32. 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,

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MI. May 21, 2018.

33. **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.
34. 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.
35. **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.
36. **Grantham, T.** California's Fourth Climate Assessment: Progress Update. Oral presentation at the UC ANR Statewide Conference. Ontario, CA. April 10, 2018.
37. 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.
38. **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.
39. 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.
40. 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.
41. 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.
42. **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.
43. 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.
44. **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.
45. **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.
46. **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.
47. **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.
48. **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.
49. **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.
50. **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.
51. **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.
52. **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.
53. **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.
54. **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.
55. **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.
56. **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.

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57. **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.
58. **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.
59. **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.
60. **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.

ACADEMIC MENTORING

Postdoctoral Researchers:

1. Gabriel Rossi, 6/2020 – present. Supported by Wildlife Conservation Board grant.
2. Christopher Dillis, 2/2020 – present. Supported by California Department of Fish and Wildlife grant.
3. Philip Georgakakos, *beginning* 3/2021. Supported by Bureau of Cannabis Control Board grant.
4. Ross Vander Vorste, 11/2017 – 5/2019. Supported by Wildlife Conservation Board grant. Now an assistant professor at the University of Wisconsin.

Graduate Students:

1. Brian Kastl, NSF Graduate Research Fellow, California Sea Grant College Program Fellow, “Controls on coho outmigration in the Russian River basin,” 2016 – present.
2. Hana Moidu, Natural Sciences and Engineering Research Council Fellow, “Evaluation of intermittent streams and their role as refugia,” co-advised with Stephanie Carlson, 2017 – present.
3. Rachael Ryan, Natural Sciences and Engineering Research Council Fellow, “Flow impacts on life history diversity of an endangered species, *Oncorhynchus kisutch*,” co-advised with Stephanie Carlson, 2018 – present.
4. Lucy Andrews, 2018 – present.
5. Robin Lopez, NSF Graduate Research Fellow, Berkeley Chancellor’s Fellow, co-advised with Paolo D’Odorico, 2018 – present.
6. Amy Fingerle, co-advised with Stephanie Carlson, 2020 – present.
7. Melissa vanMayrhauser, co-advised with Albert Ruhi, 2020 – present.

Visiting Scholars: Dr. Celso Garcia (University of the Balearic Islands), Spring-Summer 2018

Visiting Graduate Students: Brian Kastl (U.C. Santa Barbara), Dominic Carver (Newcastle University, UK), Annelie Lagesson (Umeå University, Sweden)

Undergraduate Mentees: Sarah Zhang (Environmental Sciences), Alison Parmer (Conservation and Resource Studies), Weston Slaughter (Molecular Biology), Augie Clements (Conservation and Resource Studies), Diego Samaniego (Conservation and Resource Studies)

Graduate Student Committees: Chippie Kislik (qualifying exam and dissertation, ESPM), Gabe Rossi (exam and dissertation, Integrative Biology), Jordan Wingenroth (MS thesis, ESPM), Suzanne Kelson (dissertation, ESPM), Tyler Nodine (MS thesis, Landscape Architecture), Garshaw Amidi-Abraham (Masters of Development Planning thesis, ESPM), Lauren Adams (dissertation, Civil and Environmental Engineering, UC Davis), and Bonnie Magnuson-Skeels (MS thesis, Geography Graduate Group, UC Davis).

PROFESSIONAL ACTIVITIES

1. *Ad hoc* manuscript reviewer for the following peer-review journals: 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, Proceedings of the National Academy of Sciences, Fisheries Management and Ecology, California Fish and Wildlife Journal

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2. Associate editor for California Agriculture journal
3. *Ad hoc* proposal reviewer for California Institute for Water Resources Early Career Grant Program (November 2018), EPA Star Grant Program (April 2013)
4. National Socio-Environmental Synthesis Center (SESYNC) workgroup participant, “Understanding causal pathways and feedbacks within complex water management systems,” Annapolis, MD, 2019 – 2020.
5. National Center for Ecological Analysis and Synthesis (NCEAS), Science for Nature and People (SNAP) workgroup participant, “Assessing the Water Quantity Benefits that Flow from Source Water Protection,” Santa Barbara, CA, 2018 – 2019.
6. NCEAS and SNAP workgroup participant, “Water Transactions to Enhance Streamflow, Water Supply Reliability, and Rural Economic Viability in the Western United States,” Santa Barbara, CA, 2015 – 2017.
7. SESYNC workgroup participant, “Climate Change & Water Resources Adaptation: Decision Scaling & Integrated Eco-engineering Resilience,” Annapolis, 2013 – 2014.
8. Conference session organizer: “Environmental Flow and Water Management Nexus,” Society for Freshwater Science Annual Meeting 2019; “Environmental Flow Assessment and Implementation Tools,” California Water and Environment Modeling Forum 2020

UNIVERSITY SERVICE

1. Chair, Cooperative Extension Specialist Executive Committee, College of Natural Resources, 2017 – present.
2. Mentor, U.C. Berkeley Regents and Chancellor’s Scholar Mentorship Program, 2019 – present.
3. Advisory committee, Sustainable Natural Ecosystems Strategic Initiative, U.C. Division and Agriculture and Natural Resources, 2018 – present.
4. Research advisory committee, Hopland Research and Extension Center, 2019 – present.
5. Co-chair, Climate Change Program Team. U.C. Division and Agriculture and Natural Resources, 2017 – present.
6. Associate editor, California Agriculture Journal, Natural Resources subject area. U.C. Division and Agriculture and Natural Resources, 2016 – present.
7. Graduate admissions committee, Ecosystem Sciences Division of the Department of Environmental Science, Policy, and Management, 2017, 2018, 2019.
8. Review committee, Graduate Students in Extension. Department of Environmental Science, Policy, and Management, 2017.

PUBLIC SERVICE

1. Research network advisor and adjunct research fellow, Public Policy Institute of California Water Policy Center, January 2015 – present.
2. Science advisor committee member, California Advisory Committee for Salmon and Steelhead Trout, June 2018 – present.
3. Technical advisory committee, Water Audit, June 2014 – present.
4. Technical advisory committee, Russian River Coho Water Resources Partnership, March 2016 – present.
5. Technical advisory committee, Delta Stewardship Council Vulnerability Assessment, November 2018 – present.
6. Member, Environmental Flows Workgroup of the California Water Quality Monitoring Council, August 2017 – present.
7. Co-founder and co-director, UC Berkeley Cannabis Research Center, UC Berkeley, CA, July 2019 – present.
8. Coordinating lead author, North Coast Region Climate Change Report of California’s 4th Climate Assessment, September 2017 – September 2018.
9. Organizer, UC Berkeley Social Science Matrix Working Group on Cannabis and the Environment, UC Berkeley, September 2018 – August 2019.
10. Organizer, Integrating Climate Change in California Cooperative Extension Programs Workshop and Professional Development, Kearney Research and Extension Center, CA, February 2018.
11. Invited participant, World Bank Resilient Water Decisions Workshop. Washington D.C., February 2018.
12. Invited participant, Examining Mexico’s Water Reserves Program as an Ecosystem-Based Adaptation Instrument, World Wildlife Fund, CONAGUA, and the Inter-American Development Bank Workshop, Mexico City, April 2017.
13. Invited participant, Southwest Extension Climate Workshop. Tucson, AZ, December 2016.
14. Workshop instructor, Stream Hydrology for Ecologists Workshop, Society for Freshwater Science Annual Meeting, Sacramento, CA, May 2016.
15. Technical advisory committee, Lagunitas Creek Floodplain Study, January 2015 – 2020.
16. Technical advisory committee, 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), 2014 –2016.

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17. Invited participant, Workshop on Global Indicator for Sustainable Water Use, World Bank Group and Korea Environment Institute, Washington DC, November 2014.
18. Oral session presider, Conservation Planning, Policy and Theory (COS 129), 2014 Ecological Society for America Annual Meeting, Sacramento, CA, August 14, 2014.
19. Invited participant, NSF SESYNC Workshop, "Climate Change & Water Resources Adaptation: Decision Scaling & Integrated Eco-engineering Resilience" Annapolis, MD, 2013 – 2014.
20. Conference abstract review committee, Society for Conservation Biology North America Congress, 2012.

TEACHING

1. Guest lecture, Freshwater Ecology (IB 171/ESPM C115A), "California water management and the Sacramento-San Joaquin Delta," 23 April 2020. U.C. Berkeley.
2. Guest lecture, The Water Planet (EPS 3), "Managing water for the environment in a changing climate," 30 April 2019. U.C. Berkeley.
3. Guest lecture, Bearhs Environmental Leadership Program, "Managing water for the environment in a changing climate," 16 July 2019. U.C. Berkeley.
4. Guest instructor, UC Forestry Camp. Planned and taught 2-day field course on freshwater ecology in forested landscapes at the UC Forestry Camp. Quincy, CA. June 2018 and 2019.
5. Guest lecture, Freshwater Ecology (IB 171/ESPM C115A), "California water management and the Sacramento-San Joaquin Delta," 30 April 2019. U.C. Berkeley.
6. Lead instructor, UC Water Academy. 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 2018.
7. Guest lecture, Water Resources Management Planning (ENVE 140), "Water Accounting in California," 19 April 2018. U.C. Merced.
8. Guest lecture, Data Science for the 21st Century (DS421), "Closing the research to policy gap: perspectives from California Water," 18 April 2018. U.C. Berkeley.
9. Guest lecture, Fish Ecology (ESPM 115C), "Large rivers and dams," 1 February 2018. U.C. Berkeley.
10. Guest lecture, Environmental Law Colloquium (Boalt Law School), "New approaches for managing environmental water in California," 13 April 2017. U.C. Berkeley.
11. Guest lecture, California Water (ERG 190), "Legal and policy perspectives on managing water for the environment," 14 July 2016.
12. Guest lecture, Water Resources Management Planning (ENVE 140), "Managing water in decentralized systems," 19 April 2016. U.C. Merced.
13. Guest lecture, Environmental Data Analysis (ES 207), "Balancing human and ecosystem needs in managed hydrosystems." 19 April 2016. UC Merced.
14. Guest lecture, Freshwater Ecology (IB171), "Managing for ecosystem resilience," 5 April 2016. U.C. Berkeley.

PROFESSIONAL AFFILIATIONS

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