

# John C. Stella

Vice President for Research

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## EDUCATION

University of California, Berkeley Environmental Science, Policy and Management Ph.D., 2005  
Dissertation advisors: Drs. John J. Battles and Joe R. McBride  
*“A field-calibrated model of pioneer riparian tree recruitment for the San Joaquin Basin, CA”*  
University of California, Berkeley Environmental Science, Policy and Management M.S., 1998  
Yale University Architecture B.A., 1988

## APPOINTMENTS

*Vice President for Research, SUNY-ESF, 2021–present*

Responsible for \$22M in sponsored research throughout the university, including proposal and award management, financial and legal compliance, multidisciplinary research development initiatives, a campus-wide analytical and technical services center with \$10M in instrumentation, and 27 research institutes and centers.

*Professor, Dept. of Sustainable Resources Management, SUNY-ESF, 2019–present*

*Associate Professor, Dept. of Sustainable Resources Management, SUNY-ESF, 2013–2019*

*Assistant Professor, Dept. of Sustainable Resources Management, SUNY-ESF, 2006–2013*

*Adjunct Assistant Professor, Dept. of Geography, Syracuse University, 2009–present*

*Senior Freshwater Scientist, The Nature Conservancy of California, San Francisco, Fall 2015*

*Faculty Fellow, Collegium de Lyon, École Normale Supérieure, Lyon, France, 2013–2014*

*CALFED Science Program Post-Doctoral Research Fellow, UC Berkeley, 2006*

*Senior Ecologist / Project Manager, Stillwater Sciences, Berkeley, CA, 1998–2006*

*Doctoral Student Researcher, UC Berkeley, 2000–2005*

## RESEARCH GRANTS

- ***\$7.4 million in competitive grants, with \$2.3 million of that total to ESF, from national sources (NSF, DOD, USDA, USGS), state agencies (DEC, CALFED), NGOs (The Nature Conservancy) and international research organizations (CNRS and Eurias, France)***

Strategic Environmental Research and Development Program (SERDP). Generalizing Plant Functional Responses to Drought Stress in the Southwest USA. 2022–2024. M.B. Singer (PI, UCSB), J.C. Stella (PI), K. Caylor (Co-PI, UCSB) and D.A. Roberts (Co-PI, UCSB). ESF share \$51,000; total \$150,000.

National Science Foundation GSS-1660490. Linking Basin-Scale, Stand-Level, and Individual Tree Water Stress Indicators for Groundwater-Dependent Riparian Forests in Multiple-Use River Basins. 2017–2021. J.C. Stella (PI), M.B. Singer (PI, UCSB), and D.A. Roberts (PI, UCSB). \$449,982.

National Science Foundation EAR-1700517. *Collaborative Research: Impacts of Dynamic, Climate-Driven Water Availability on Tree Water Use and Health in Mediterranean Riparian Forests*. 2017–2021. J.C. Stella (PI), M.B. Singer (PI, UCSB), K. Caylor (Co-PI, UCSB). Total budget, ESF share: \$53,787; total \$450,353

Strategic Environmental Research and Development Program (SERDP). *Understanding and assessing riparian habitat vulnerability to drought-prone climate regimes on Department of Defense bases in the southwestern USA*. 2018–2022. M.B. Singer (PI, UCSB), J.C. Stella (PI), K. Caylor (Co-PI, UCSB) and D.A. Roberts (Co-PI, UCSB). ESF share \$348,623; total \$1,704,236

The Nature Conservancy. *Assessing riparian forest water sources in the Santa Clara River basin*. 2018–2021. M. Singer (PI, UCSB), J.C. Stella (Co-PI), L. Kui (Co-PI, UCSB). \$110,000

European Union COST Program. *CONVERGES: Knowledge conversion for enhancing management of European riparian ecosystems and services*. 2017-2021. S. Dufour (PI), J.C. Stella (Collaborator) and 33 others.

USDA Cooperative State Research Service. *The effects of Riparian Management Zone delineation on timber value and ecosystem services in diverse forest biomes across the United States*. 2017–2018. R. Germain (PI) and J.C. Stella (Co-PI). \$63,274.

National Science Foundation EAR-1024820. *Collaborative Research: Quantifying Feedbacks between Fluvial Morphodynamics and Pioneer Riparian Vegetation in Sand-Bed Rivers*. 2010–2015. J.C. Stella (PI), A.C. Wilcox (PI, U. Montana), and A.F. Lightbody (PI, UNH). SUNY-ESF share: \$205,680 ; total: \$650,000.

U.S. Geological Survey. *Responses of floodplain vegetation to sediment dynamics and feedbacks*. 2015. J.C. Stella (PI). \$10,000.

The Nature Conservancy/ESSA Technologies. *Riparian wood recruitment analysis for bank migration scenarios on the Middle Sacramento River, CA*. 2015. J.C. Stella (PI). \$37,925.

Centre National de la Recherche Scientifique, Observatoire Homme Milieux (CNRS, France). *Ecosystem service of carbon sequestration associated with riparian management strategies on the old Rhône River*. 2015. V. Matzek and J.C. Stella (PI's). \$11,100.

European Institute for Advanced Study (EURIAS). *Common challenges and opportunities in riparian zone management along large, Mediterranean-climate rivers*. 2013–2014. J.C. Stella (PI). \$75,000.

Centre National de la Recherche Scientifique, Observatoire Homme Milieux (CNRS, France). *Riparian forest composition and structure in former Girardon engineering structures of the old Rhône River, France*. 2014. J.C. Stella (PI). \$16,000.

USDA Forest Service, Northeastern States Research Cooperative. *Quantifying Beaver Impacts on Adirondack Forest Communities at a Landscape Scale*. 2012–2014. J.C. Stella (PI), E. Bevilacqua (Co-PI) and J. Frair (Co-PI). \$87,850.

USDA Cooperative State Research Service. *Beaver Influence on Vegetation Structure and Avian Diversity at Local and Landscape Scales*. 2013–2015. S. McNulty (PI), J.C. Stella (Co-PI). \$52,000.

SUNY-ESF, Research Seed Grant. *A New Tool for Restoration Ecology: Stable Carbon Isotopes in Tree Rings as Indicators of Ecosystem Change*. 2010–2011. J.C. Stella (PI) and M. Teece (Co-PI). \$8,000.

Western Caucus Pooled Fund. *Riparian Study Development for the Lower Yuba River*. 2010–11. South Yuba River Citizens League. Travel and meeting coordination funding for J.C. Stella. \$7,000.

- USDA Cooperative State Research Service. *Restoring Small, Ephemeral Wetlands in Forested Landscapes in New York State*. 2009–2012. J.P. Gibbs, J.C. Stella (Co-PI). \$89,850.
- Centre National de la Recherche Scientifique (CNRS, France). *Programme International de Coopération Scientifique: Contrôles géomorphologiques et dynamique des ripisylves dans les rivières à méandres de piémont (étude comparée de l’Ain et du Sacramento)*. 2009–2011. H. Piégay (PI) and G.M. Kondolf (PI). International research funding for J.C. Stella. Total for all collaborators: \$120,000.
- CALFED Science Fellows Program. *Modeling physical drivers and age structure of cottonwood forest habitat: an integrated systems approach*. 2008–2010. J.C. Stella (PI) and A.K. Fremier. \$228,750.
- USDA Cooperative State Research Service. *Quantifying riparian zone structure and function to guide management of the northern hardwood forest ecosystem*. 2008–2011. J.C. Stella (PI). \$82,000.
- SUNY-ESF, Research Seed Grant. *Elemental stoichiometry and ecosystem health of Onondaga Creek*. 2008. J.C. Stella (PI) and K.E. Limburg. \$8,000.
- CALFED Science Fellows Program. *Effects of river regulation and climate on sustainability of Fremont cottonwood (*Populus fremontii*) forests in California’s Central Valley*. 2006–2008. J.J. Battles (PI) and J.C. Stella. \$228,750.
- NSF Doctoral Dissertation Improvement Grant. *Developing a predictive understanding of recruitment and survival of pioneer riparian trees on regulated rivers*. 2003. J.C. Stella (doctoral fellowship), with J.J. Battles (PI). \$11,950.
- CALFED Science Fellows Program. *A mechanistic model to evaluate and improve riparian restoration success*. 2003–2004. J.C. Stella (doctoral fellowship), with J.J. Battles (PI). \$93,491.
- CALFED Ecosystem Restoration Program. *A mechanistic approach to riparian restoration in the San Joaquin Basin*. 2002–2003. Research grant #1999-B152 awarded to Stillwater Sciences (Project developed by J.C. Stella; data collection used for dissertation research). \$289,666.

## PUBLICATIONS

### Peer-Reviewed Articles (\*\*undergrad advisee; \*grad advisee; other student contributor)

64. Kui, L., J. Williams\*\*, M.B. Singer, **J.C. Stella**, C.L. Kibler\*, T.E. Dawson, M.M. Rohde\*\*, A.M. Lambert, D.A. Roberts. In preparation. Increased groundwater dependence of riparian vegetation in response to atmospheric drought conditions.
63. Kibler, C.\*, L. Hall, A.M. Lambert, L. Kui, C. McMahon\*, M.M. Rohde\*\*, D.A. Roberts, **J.C. Stella**, M.B. Singer. In preparation. Riparian bird species exhibit distinct strategies to cope with drought-induced habitat loss.
63. Pu, G.\*, L.J. Quackenbush, **J.C. Stella**. In review. Quantifying restored riparian buffer delineation accuracy and detectability in multitemporal imagery. *Ecological Engineering*
62. Lochin, P.\*, P. Malherbe, B. Marteau, J. Godfroy, F. Gerle, J. Marshall, S. Puijalon, M.B. Singer, **J.C. Stella**, H. Piégay, A. Vernay. In review. The Ant and the Grasshopper: contrasting responses and behaviors to water stress of riparian trees along a hydroclimatic gradient. *Science of the Total Environment*
61. Lochin, P.\*, H. Piégay, **J.C. Stella**, K.K. Caylor, L. Vaudor, M.B. Singer. In review. Drivers of spatiotemporal patterns of riparian forest greenness along a hydroclimatic gradient. *Ecohydrology*

60. Rohde, M.M.\*\*; C.M. Albano, X. Huggins, K.R. Klausmeyer, C. Morton, A. Sharman, E. Zaveri, L. Saito, Z. Freed, J.K. Howard, N. Job, H. Richter, K. Toderick, A-S Rodella, T. Gleeson, J. Huntington, H.A. Chandanpurkar, A.J. Purdy, J.S. Famiglietti, M.B. Singer, D.A. Roberts, K.K. Caylor, **J.C. Stella**. 2024. Groundwater-dependent ecosystem map exposes global dryland protection needs. *Nature*.
59. Williams, J.\*\*; **J.C. Stella**, M.B. Singer, A.M. Lambert, S.L. Voelker,, J.E. Drake,, J.M. Friedman,, L. Pelletier\*\*,, L. Kui, D.A. Roberts. 2024. Seasonal and species-level water-use strategies and groundwater dependence in dryland riparian woodlands during extreme drought. *Water Resources Research*. DOI: [10.1029/2023WR035928](https://doi.org/10.1029/2023WR035928)
58. Rohde, M.M.\*\*; **J.C. Stella**, M.B. Singer, D. A. Roberts, K. Caylor, C.M. Albano. 2024. Groundwater for Ecosystems: Establishing ecological thresholds and targets for groundwater management. *Nature Water* DOI: [10.1038/s44221-024-00221-w](https://doi.org/10.1038/s44221-024-00221-w)
- *Nature Water News and Views* feature, Irvine, D.J. and R.A. Crabbe. 2024. Defining thresholds to protect groundwater-dependent vegetation. DOI: [s44221-024-00229-2](https://doi.org/s44221-024-00229-2)
  - *SpringerNature Research Communities* feature, Rohde et al., 2024. Behind the Paper: Underfoot and Overlooked: Groundwater’s key role in ecosystem resilience. <https://communities.springernature.com/posts/underfoot-and-overlooked-groundwater-s-key-role-in-ecosystem-resilience>
57. McMahon, C.\*; D.A. Roberts, **J.C. Stella**, A. Trugman, M.B. Singer, K.K. Caylor. 2024. A river runs through it: robust automated mapping of riparian woodlands and land surface phenology across dryland regions. *Remote Sensing and the Environment* DOI: 10.1016/j.rse.2024.114056
56. Jessamy, J.\*\*; J.E. Drake, **J.C. Stella**. 2024. Persistent legacies of discrimination predict urban forest structure and composition across a socioeconomic gradient. *Landscape and Urban Planning* DOI: 10.1016/j.landurbplan.2024.105018
55. Fichot, R., M. Lefebvre\*, M. Pégard, D. Chassagnaud, M. Bliard, J. Ferdinand, F. Laurans, D. Le Thiec, A. Deveau, **J.C. Stella**, P. Rozenberg, M. Villar. 2024. Distinct trait syndromes and plasticity maintain similar performance between seedlings populations of the riparian tree species *Populus nigra* L. *Environmental and Experimental Botany*. DOI: 10.1016/j.envexpbot.2023.105598
54. Kibler, C.L.\*; A.T. Trugman, D.A. Roberts, C.J. Still, R.L. Scott, K.K. Caylor, **J.C. Stella**, M.B. Singer. 2023. Evapotranspiration regulates leaf temperature and respiration in dryland vegetation. *Agricultural and Forest Meteorology* 339, 109560. DOI: 10.1016/j.agrformet.2023.109560
53. Kua, Z.X., C.M. Davis, L.A. Townley, **J.C. Stella**, S.B. Shaw. 2023. Analyzing the impact of agricultural BMPs on stream nutrient load and biotic health in the Susquehanna-Chemung Basin of New York. *Journal of Environmental Management* DOI: 10.1016/j.jenvman.2023.117521
52. Warter, M.M.\*; M.B. Singer, D. Roberts, K.K. Caylor, R. Sabathier, M.O. Cuthbert, **J.C. Stella**. 2023. Modeling seasonal vegetation phenology from hydroclimatic drivers for contrasting plant functional groups within drylands of the Southwestern USA. *Environmental Research: Ecology* DOI: 10.1088/2752-664X/acb9a0
51. Sabathier, R.\*; M.B. Singer, **J.C. Stella**, D.A. Roberts, K.K. Caylor, K.L. Jaeger, J.D. Olden. 2023. High resolution spatiotemporal patterns of flow at the landscape scale in montane non-perennial streams. *River Research and Applications* 39:225-240 DOI: 10.1002/rra.4076

50. Williams, J.\*\* , **J.C. Stella**, S.L. Voelker, A.M. Lambert, L. Pelletier, J.E. Drake, J.M. Friedman, D.A. Roberts, M.B. Singer. 2022. Local groundwater decline exacerbates response of dryland riparian woodlands to climatic drought. *Global Change Biology*. DOI: 10.1111/gcb.16376
49. Beslity, J.\* , S.B. Shaw, J.E.. Drake, J. Fridley, **J.C. Stella**, J. Stark, K. Singh. 2022. A low cost, low power sap flux device for distributed and intensive monitoring of tree transpiration. *HardwareX* e00351 DOI: 10.1016/j.ohx.2022.e00351
48. Jayasuriya, M.T.\* , R.H. Germain, **J.C. Stella**. 2022. Applying the "Goldilocks Rule" to Riparian Buffer Widths for Forested Headwater Streams across the Contiguous US – How Much Is "Just Right"? *Forests*. DOI: 10.3390/f13091509
47. Bywater-Reyes, S., R.M. Diehl, A.C. Wilcox, **J.C. Stella**, and L. Kui. 2022. Green New Balance: interactions among riparian vegetation plant traits and morphodynamics in alluvial rivers. *Earth Surface Processes and Landforms*. 47:2410–2436. DOI: 10.1002/esp.5385
46. Rodríguez-González, P., S. Dufour, **J.C. Stella**, et al. 2022. Bringing the margin to the focus: 10 challenges for riparian vegetation science and management. *WIRE Water*. DOI: 10.1002/wat2.1604
45. Rohde, M.M.\*\* , **J.C. Stella**, D.A. Roberts, M.B. Singer. 2021. Groundwater dependence of riparian woodlands and the disrupting effect of anthropogenically altered streamflow. *Proceedings of the National Academy of Sciences*. DOI: 10.1073/pnas.2026453118
44. Kibler, C.L.\* , E.C. Schmidt\*, D.A. Roberts, **J.C. Stella**, L. Kui, A.M. Lambert, M. Singer. 2021. A brown wave of riparian woodland mortality following groundwater declines during the 2012-2019 California drought. *Environmental Research Letters*. DOI: 10.1088/1748-9326/ac1377
43. **Stella, J.C.**, L. Kui, G.H. Golet, F. Poulsen. 2021. A dynamic riparian forest structure model for predicting large wood inputs to meandering rivers. *Earth Surface Processes and Landforms*. DOI: 10.1002/esp.5229
42. Haynes, K.R.\* , J. Friedman, **J.C. Stella**, D.J. Leopold. 2021. Assessing climate change tolerance and the niche breadth-range size hypothesis in rare and widespread plants. *Oecologia* 196(4):1233-1245. DOI: 10.1007/s00442-021-05003-9
41. Jayasuriya, M.T.\* , **J.C. Stella**, R.H. Germain. 2021. Can Understory Plant Composition and Richness Help Designate Riparian Management Zones in Mesic Headwater Forests of the Northeastern United States? *Journal of Forestry* DOI: 10.1093/jofore/fvab034
40. Stephan, E.\* , T. Endreny, P. Groffman, P.G. Vidon, **J.C. Stella**. 2021. Interacting drivers and their tradeoffs for predicting denitrification potential across a strong urban to rural gradient within heterogeneous landscapes. *Journal of Environmental Management* 294 DOI: 10.1016/j.jenvman.2021.113021
39. Warter, M.M.\* , M.B. Singer, M.O. Cuthbert, D.A. Roberts, K. Caylor, R. Sabathier\*, **J.C. Stella**. 2021. Drought onset and propagation into soil moisture and grassland vegetation responses during the 2012–2019 major drought in Southern California. *Hydrology and Earth System Sciences (HESS)*. DOI: 10.5194/hess-25-3713-2021
38. Sabathier, R.\* , M.B. Singer, **J.C. Stella**, D.A. Roberts, K.K. Caylor. 2021. Vegetation responses to climatic and geologic controls on water availability in southeastern Arizona. *Environmental Research Letters* 16 : (ERL-109499) DOI: 10.1088/1748-9326/abfe8c
37. Janssen P., **J.C. Stella**, B. Räßle\*\*, C.R. Gruel\*\*, G. Seignemartin\*, B. Pont, S. Dufour, H. Piégay. 2020. Long-term river management legacies strongly alter riparian forest attributes

- and constrain restoration strategies along a large, multi-use river. *Journal of Environmental Management* DOI: 10.1016/j.jenvman.2020.111630
36. Mayes, M., K. Caylor, M.B. Singer, **J.C. Stella**, D.A. Roberts, P. Nagler. 2020. Climate sensitivity of water use by riparian woodlands at landscape scales. *Hydrological Processes*. DOI: 10.1002/hyp.13942
  35. Mahoney, M.<sup>\*\*\*</sup>, **J.C. Stella**. 2020. Stem size selectivity is stronger than species preferences for beaver, a central place forager. *Forest Ecology and Management*. DOI : 10.1016/j.foreco.2020.118331
  34. Kua, Z.X.<sup>\*\*</sup>, **J.C. Stella**, J.M. Farrell. 2020. Local disturbance by muskrat, an ecosystem engineer, enhances plant diversity in regionally-altered wetlands. *Ecosphere*. DOI: 10.1002/ecs2.3256
  33. Diehl, R.M., A.W. Wilcox and **J.C. Stella**. 2020. Evaluation of the integrated riparian ecosystem response to future flow regimes on semiarid rivers. *Journal of Environmental Management* DOI: 10.1016/j.jenvman.2020.111037
  32. Janssen P., **J.C. Stella**, H. Piégay, B. Räßle<sup>\*\*</sup>, B. Pont, J-M Faton, J.H.C. Cornelissen, A. Evette. 2020. Divergence of riparian forest composition and functional traits from natural succession along a degraded river with multiple stressor legacies. *Science of the Total Environment* 720. DOI: 10.1016/j.scitotenv.2020.137730
  31. Lightbody, A., Kui, L.<sup>\*\*</sup>, **J.C. Stella**, K.W. Skorko, S. Bywater-Reyes, A.C. Wilcox. 2019. Riparian vegetation and sediment supply regulate the morphodynamic flood response of an experimental stream to floods. *Frontiers in Environmental Science (Freshwater Science section)*. DOI: 10.3389/fenvs.2019.00040
  30. Kui, L.<sup>\*\*</sup>, **J.C. Stella**, R. M. Diehl, A.C. Wilcox, A. Lightbody, L.S. Sklar. 2019. Can environmental flows moderate riparian invasions? The influence of seedling morphology and density on scour losses in experimental floods. *Freshwater Biology* DOI: 10.1111/fwb.13235
  29. Matzek, V., **J.C. Stella**, P. Ropion<sup>\*</sup>. 2018. Development of a carbon calculator tool for riparian restoration. *Applied Vegetation Science* DOI: 10.1111/avsc.12400
  28. Thorel, M., H. Piégay, C. Barthélémy, B. Räßle<sup>\*\*</sup>, C-R Gruel<sup>\*</sup>, P. Marmonier, T. Winiarsky, J-P Bedell, F. Arnaud<sup>\*</sup>, G. Roux, **J.C. Stella**, G. Seignemartin<sup>\*</sup>, A. Tena-Pagan, V. Wawrzyniak<sup>\*</sup>, D. Roux-Michollet, B. Oursel, S. Fayolle, C. Bertrand<sup>\*</sup>, E. Franquet. 2018. Socio-environmental stakes associated with process-based restoration strategies in large rivers: should we remove novel ecosystems along the Rhône (France)? *Regional Environmental Change* DOI: 10.1007/s10113-018-1325-7
  27. Räßle, B.<sup>\*\*</sup>, H. Piégay, **J.C. Stella**, D. Mercier<sup>\*</sup>. 2017. What drives riparian vegetation establishment in river channels at patch to corridor scales? Insights from annual airborne surveys (Drôme River, SE France). *Ecohydrology* DOI: 10.1002/eco.1886
  26. Kui, L.<sup>\*\*</sup>, **J.C. Stella**, P.B. Shafroth, P.K. House, A.C. Wilcox. 2017. The long-term legacy of geomorphic and riparian vegetation feedbacks on the dammed Bill Williams River, Arizona, USA. *Ecohydrology* DOI:10.1002/eco.1839
  25. Ledford, S.H.<sup>\*</sup>, L.K. Lautz, P.G. Vidon, **J.C. Stella**. 2017. Impact of seasonal changes in stream metabolism on nitrate concentrations in an urban stream. *Biogeochemistry* DOI:10.1007/s10533-017-0336-7
  24. Diehl, R.M., A.C. Wilcox, **J.C. Stella**, L. Kui<sup>\*\*</sup>, L. Sklar, A. Lightbody. 2016. Fluvial sediment supply and pioneer woody seedlings as a control on bar-surface topography. *Earth Surface Processes and Landforms* DOI:10.1002/esp.4017

23. Hultine, K.R., K.C. Grady, T.E. Wood, S.M. Shuster, **J.C. Stella**, T.G. Whitham. 2016. Climate change perils for dioecious plant species. *Nature Plants*. DOI:10.1038/nplants.2016.109
22. Ledford, S.H.\*, L.K. Lutz, **J.C. Stella**. 2016. Hydrogeologic processes impacting storage, fate, and transport of chloride from road salt in urban riparian aquifers. *Environmental Science and Technology* 50: 4979–4988 DOI:10.1021/acs.est.6b00402
21. Kui, L.\*\* and **J.C. Stella**. 2016. Fluvial sediment burial increases mortality of riparian tree seedlings but induces compensatory growth response in survivors. *Forest Ecology and Management*, 366. DOI: 10.1016/j.foreco.2016.02.001
20. Dixon, M.D. and **J.C. Stella**. 2015. Temporal variability in hydrology modifies the influence of geomorphology on wetland distribution along a desert stream: a commentary on Dong et al. 2015. *Journal of Ecology*. DOI:10.1111/1365-2745.12499
19. Bywater-Reyes, S.\*, A.C. Wilcox, **J.C. Stella**, and A.F. Lightbody. 2015. Flow and scour constraints on uprooting of pioneer woody seedlings, *Water Resources Research*, 51. DOI:10.1002/2014WR016641
18. Manners, R., A.C. Wilcox, L. Kui\*\*, A. Lightbody, **J.C. Stella**, L. Sklar. 2015. When do plants modify fluvial processes? Plant-hydraulic interactions under variable flow and sediment supply rates. *Journal of Geophysical Research – Earth Surface*. DOI:10.1002/2014JF003265
17. Bishop, D.A.\*, C.M. Beier, N. Pedersen, G.B. Lawrence, **J.C. Stella**, T.J. Sullivan. 2015. Regional growth decline in sugar maple (*Acer saccharum*) and potential causes. *Ecosphere*. DOI:10.1890/ES15-00260.1
16. Riddle, J., N. Pedersen, **J.C. Stella**, D.L. Leopold. 2014. Shifting climate sensitivity and contrasting growth trends in *Juniperus* species growing together at opposite range margins. *Tree-Ring Research* 70:101–111. DOI:10.3959/1536-1098-70.2.101
15. Kui, L.\*\*, **J.C. Stella**, A. Lightbody, A.C. Wilcox. 2014. Ecogeomorphic feedbacks and flood loss of riparian tree seedlings in meandering channel experiments. *Water Resources Research*. 50, DOI: 10.1002/2014WR015719
14. Dufour, S., M.K. Hayden\*, **J.C. Stella**, H. Piégay, J.J. Battles. 2014. Maintaining channel abandonment processes increases riparian plant diversity within fluvial corridors. *Ecohydrology*. DOI: 10.1002/eco.1546
13. **Stella, J.C.**, J. Riddle\*, H. Piégay, M. Gagnage\*, M-L. Trémélo. 2013. Climate and local geomorphic interactions drive patterns of riparian forest decline along a Mediterranean Basin river. *Geomorphology*. DOI:10.1016/j.geomorph.2013.01.013
12. **Stella, J.C.**, P. Rodríguez-González, S. Dufour, J. Bendix. 2013. Riparian vegetation research in Mediterranean-climate regions: common patterns, ecological processes, and considerations for management. *Hydrobiologia* 719:291–315. DOI:10.1007/s10750-012-1304-9
11. Singer, M.B., **J.C. Stella**, S. Dufour, L.B. Johnstone\*\*, H. Piégay, and R.J.S. Wilson. 2012. Contrasting water uptake and growth responses to drought in co-occurring riparian tree species. *Ecohydrology*. 6: 402–412. DOI:10.1002/eco.1283
10. Eallonardo, A. S.\*, D.J. Leopold, J.D. Fridley and **J.C. Stella**. 2012. Salinity tolerance and the decoupling of resource axis plant traits. *Journal of Vegetation Science*. DOI:10.1111/j.1654-1103.2012.01470.x
9. Downs, P.W., M.S. Singer, B.K. Orr, Z.E. Diggory, T.C. Church, and **J.C. Stella**. 2011. Restoring ecological integrity in highly regulated rivers: The role of baseline data and



- analytical references. *Environmental Management* 48:847–864. DOI:10.1007/s00267-011-9736-y
8. Beier C.M., **J.C. Stella**, M. Dovçiak, S.A. McNulty. 2012. Local climatic drivers of changes in phenology at a boreal-temperate ecotone in eastern North America. *Climatic Change* 115:399–417. DOI: 10.1007/s10584-012-0455-z
  7. Schiffman, L.A.\*\*, **J.C. Stella**, M. Teece and T.A. Volk. 2012. Carbon isotope variation in shrub willow (*Salix* spp.) ring-wood as an indicator of long-term water status, growth and survival. *Biomass & Bioenergy* 36: 316–326. DOI:10.1016/j.biombioe.2011.10.042
  6. **Stella, J.C.**, M.K. Hayden\*, J.J. Battles, H. Piégay, S. Dufour, and A.K. Fremier. 2011. The role of abandoned channels as refugia for sustaining pioneer riparian forest ecosystems. *Ecosystems* 14: 776–790. DOI:10.1007/s10021-011-9446-6
  5. Harper, E.B., **J.C. Stella**, A.K. Fremier. 2011. Global sensitivity analysis for complex ecological models: a case study of riparian cottonwood population dynamics. *Ecological Applications* 21: 1225–1240. DOI:10.1890/10-0506.1
  4. **Stella, J.C.**, J.J. Battles, J.R. McBride, B.K. Orr. 2010. Riparian seedling mortality from simulated water table recession, and the design of sustainable flow regimes on regulated rivers. *Restoration Ecology*. 18(S2): 284–294. DOI:10.1111/j.1526-100X.2010.00651.x
  3. Rodríguez-González, P.M.\* , **J.C. Stella**, F. Campelo, T. Ferreira, A. Albuquerque. 2010. Subsidy or stress? Tree structure and growth in wetland forests along a hydrological gradient in southern Europe. *Forest Ecology and Management* 259: 2015–2025. DOI:10.1016/j.foreco.2010.02.012
  2. **Stella, J.C.**, and J.J. Battles. 2010. How do riparian woody seedlings survive seasonal drought? *Oecologia* 164:579–590. DOI:10.1007/s00442-010-1657-6
  1. **Stella, J.C.**, J.J. Battles, B.K. Orr, J.R. McBride. 2006. Synchrony of seed dispersal, hydrology and local climate in a semi-arid river reach in California. *Ecosystems* 9:1200-1214. DOI:10.1007/s10021-005-0138-y

#### **Book Chapters and Conference Proceeding Papers** (\*indicates student contributor)

11. **Stella, J.C.**, Jared Williams, Christopher Kibler, Melissa M Rohde, Lissa Pelletier, Michael B Singer, Dar A Roberts, Adam Lambert, and Kelly Caylor. Water Stress in Riparian Woodlands from Groundwater Decline and Climate Change — Ecosystem Indicators at Multiple Scales. Proceedings of the Fourth Integrative Sciences and Sustainable Development of Rivers (IS Rivers) Conference, Lyon, France, July 2022.
10. **Stella, J.C.** and J. Bendix. 2019. Chapter 5: Multiple stressors in riparian ecosystems. In *Multiple stressors in river ecosystems: status, impacts and prospects for the future* (S. Sabater, A. Elosegı, R. Ludwig, Eds.). Elsevier, San Diego. ISBN: 9780128117132
9. Orr, B.K., A.G. Merrill, Z.E. Diggory, **J.C. Stella**. 2017. Use of the biophysical template for riparian restoration and revegetation in the Southwest. In: Ralston, B.E., and Sarr, D.A., Eds. Case studies of riparian and watershed restoration in the southwestern United States—principles, challenges, and successes. U.S. Geological Survey Open-File Report 2017-1091, 116 p. DOI: [10.3133/ofr20171091](https://doi.org/10.3133/ofr20171091)
8. Sabater, S., X. Timoner, G. Bornette, M. de Wilde, J.C. Stromberg, **J.C. Stella**. 2016. The biota of intermittent rivers and ephemeral streams: algae and vascular plants. In *Intermittent Rivers: Ecology and Management* (T. Datry, N. Bonada and A. Boulton, Eds.). Elsevier, San Diego. DOI:[10.1016/B978-0-12-803835-2.00016-4](https://doi.org/10.1016/B978-0-12-803835-2.00016-4)
7. **Stella, J.C.**, H. Piégay, J.D. Riddle, C. Gruel\*, B. Räßple\*\*. 2015. Riparian forest impacts and dynamics on large rivers managed for multiple uses; insights from the Sacramento



(California, USA) and Rhône (France). Proceedings of the Second Integrative Sciences and Sustainable Development of Rivers (IS Rivers) Conference, Lyon, France, 22–26 June 2015.

6. Räßple, B.\*\*\*, K. Michel, H. Piégay, R. Dunford, D. Mercier\*, **J.C. Stella**. 2015. Caractéristiques et dynamique de la végétation riveraine sur la rivière Drôme: analyses à partir d'images aériennes de très haute résolution. Proceedings of the Société Hydrotechnique de France (SHF) annual congress. Paris, France, April 2015.
5. Bendix, J., and **J.C. Stella**. 2013. Riparian Vegetation and the Fluvial Environment: A Biogeographic Perspective. In *Treatise on Geomorphology 12: Ecogeomorphology* (D. Butler and C. Hupp, Eds.). Elsevier, San Diego. DOI [10.1016/B978-0-12-374739-6.00322-5](https://doi.org/10.1016/B978-0-12-374739-6.00322-5)
4. **Stella, J.C.**, J.D. Riddle, J.J. Battles, M.K. Hayden\*, and A.K. Fremier. 2012. Riparian forest dynamics on a large, regulated river (California, USA): impacts and implications for management. Proceedings of the Integrative Sciences and Sustainable Development of Rivers (IS Rivers) Conference, Lyon, France, 26–28 June 2012. <http://www.graie.org/ISRivers/actes/pdf2012/1B109-237STE.pdf>
3. Skorko, K.\*, A. Lightbody, L. Kui\*\*, **J.C. Stella**, A.C. Wilcox. 2012. Hydraulic and topographic response of sand-be rivers to riparian vegetation presence and patterns: field-scale laboratory methods and results. Proceedings of the Hydraulic Measurements and Experimental Methods Conference (HMEM 2012). Snowbird, UT.
2. **Stella, J.C.**, J.C. Vick, B.K. Orr. 2004. Riparian vegetation dynamics on the Merced River. *The Wilderness Society Riparian Floodplains Conference Proceedings*. Sacramento, CA. March 2001.
1. **Stella, J.C.** 1998. The Greywacke Cover-up. *Soil Survey Horizons* 39(4): 127-130.

#### **Applied Research Reports and Non-Peer Reviewed Articles**

8. **Stella, J.C.** and L. Kui\*\*. 2015. Large Woody Debris enhancement model for Sacramento River Environmental Flow Tool (SacEFT). Prepared for The Nature Conservancy. Chico, CA.
7. Wilcock, P., **J.C. Stella**, D. Orth and Atkins Environmental. 2012. Senior scientific review of Trinity River Restoration Program, Fiscal Year 2013 Preliminary Science Workplan. Provided to the Trinity Management Council (U.S. Bureau of Reclamation and Partners).
6. **Stella, J.C.**. 2012. Senior scientific review of Platte River Recovery Implementation Program, Directed Vegetation Research. Nebraska Community Foundation, Inc.
5. **Stella, J.C.** 2011. Yuba River Riparian Study: Cottonwood Limiting Factors Analysis. Prepared for Yuba County Water Agency. Yuba River Development Project, FERC Project No. 2246.
4. Stillwater Sciences. 2006. Restoring recruitment processes for riparian cottonwoods and willows: a field-calibrated predictive model for the lower San Joaquin Basin. Prepared for CALFED Bay-Delta Ecosystem Restoration Program, Sacramento, California. Prepared by Stillwater Sciences and Dr. **J.C. Stella**, in conjunction with Dr. J.J. Battles and Dr. J.R. McBride, Dept. of Environmental Science, Policy, and Management, U.C. Berkeley.
3. Stillwater Sciences. 2006. Merced River Ranch revegetation experiment. Prepared by Stillwater Sciences, Berkeley, California, for CALFED, Sacramento, California.
2. Stillwater Sciences. 2002. Merced River corridor restoration plan. Prepared by Stillwater Sciences, Berkeley, California for CALFED Bay-Delta Program, Sacramento, California

1. Stillwater Sciences. 2001. Merced River Restoration Plan Phase II. Volume II: Baseline evaluations; geomorphic and riparian vegetation investigations. Prepared by Stillwater Sciences, Berkeley, CA for CALFED Bay-Delta Ecosystem Restoration Program, Sacramento, CA.

## HONORS AND AWARDS

Faculty Fellowship, European Institute for Advanced Study (EURIAS), Lyon France 2013–2014  
Schubert Prize, Dept. of Environmental Science, Policy and Management, UC Berkeley, 2005  
Colman Fellowship in Watershed Management, UC Berkeley, 2000, 2003  
ESPM Departmental Fellowships, UC Berkeley, 1996, 1997, 2000

## INVITED PRESENTATIONS AND SPECIAL SESSIONS

**Stella, J.C.**, J. Williams, C. Kibler, M.M Rohde, L. Pelletier, M.B. Singer, D.A. Roberts, A. Lambert, K. Caylor. Water Stress in Riparian Woodlands from Groundwater Decline and Climate Change — Ecosystem Indicators at Multiple Scales. Invited oral presentation at the virtual Northern California Botanists Symposium, January 2022.

**Stella, J.C.**, J. Williams, C. Kibler, M.M Rohde, L. Pelletier, M.B. Singer, D.A. Roberts, A. Lambert, K. Caylor. [Water Stress in Riparian Woodlands from Groundwater Decline and Climate Change — Ecosystem Indicators at Multiple Scales](#). Invited oral presentation at the RiversEdge West Conference. Grand Junction, CO (USA), February 2022.

**Stella, J.C.**, J. Williams, C. Kibler, M.M Rohde, L. Pelletier, M.B. Singer, D.A. Roberts, A. Lambert, K. Caylor. [EP21A-08 Water Stress in Riparian Woodlands from Groundwater Decline and Climate Change — Ecosystem Indicators at Multiple Scales](#). Invited oral presentation at the [American Geophysical Union Fall Meeting](#), New Orleans, December 2021.

**Stella, J.C.** Riparian tree stress in relation to streamflow. [Annual Meeting of the Ecological Society of America](#), Salt Lake City, UT, August 2020

**Stella, J.C.**, Defining groundwater-dependent ecosystems and assessing critical water needs for their foundational plant communities. RiversEdge West conference. Phoenix, AZ, February 2019.

**Stella, J.C.**, Modelling riparian forest development to predict floodplain inputs of large wood to meandering rivers. Invited presentation at the [American Geophysical Union Fall Meeting](#), Washinton, D.C.. December 2018.

**Stella, J.C.**, Riparian vegetation interactions with fluvial processes. [Concordia University](#), Montreal, Canada, October 2018.

**Stella, J.C.**, Patterns of natural regeneration of early successional riparian forest habitat. [California Yellow-billed Cuckoo Workshop](#). Sacramento National Wildlife Refuge, Willows, CA. Sept. 6, 2018

**Stella, J.C.**, Cumulative impact legacies create novel riparian forests on large, multi-use rivers (Sacramento, CA and Rhône, France). Invited presentation at the [Society of Wetland Scientists](#), Denver, June 2018.

**Stella, J.C.**, Multiple stressors and the response of riparian vegetation. Invited presentation at the Third I.S. Rivers conference (Integrative sciences and sustainable development of rivers). Lyon, France, June 2018.

**Stella, J.C.**, Defining groundwater-dependent ecosystems and assessing critical water needs for their foundational plant communities. Invited presentation at the [American Geophysical Union Fall Meeting](#), New Orleans, LA. December 2017.

- Stella, J.C.**, Approaches and tools for assessing dependence and vulnerability of GDE plant communities. Putting Policy into Practice: Achieving Sustainable Groundwater Management for People and Nature. Annual Meeting of the Ecological Society of America, Portland, OR, August 2017.
- Stella, J.C.**, Confluence to Influence: Preserving and enhancing the multiple functions and services of riparian zones in a changing climate. Davis, CA. 17–19 October, 2017. **(conference organizing committee)**
- Stella, J.C.** 2015. 11th Annual Berkeley River Restoration Symposium. Berkeley, CA. 5 December 2015., **(invited panelist)**.
- Stella, J.C.**, 2015. El Nino Climate Summit. University of California, Davis. 5 December 2015, **(invited panelist)**.
- Stella, J.C.**, Hydrologic Analysis for Ecosystem Restoration. Presentations on behalf of The Nature Conservancy for the U.S. Army Corps of Engineers Hydrologic Engineering Center, Davis, CA. 18-19 November 2015.
- Stella, J.C.**, Panel on Climate Challenges for the Sacramento–San Joaquin Watershed. Southwest Climate Summit. Landscape Conservation Cooperative — Southwest Region. Sacramento, CA. 2–3 November 2015.
- Stella, J.C.**, Second I.S. Rivers conference (Integrative sciences and sustainable development of rivers). Lyon, France. 22–26 June, 2015, **(conference organizing committee)**
- Stella, J.C.**, H. Piégay, Synthesizing riparian science and management challenges on large, multi-use rivers: cross-system lessons from Europe and North America. Second I.S. Rivers conference (Integrative sciences and sustainable development of rivers). Lyon, France. 22–26 June, 2015, **(co-organizer)**.
- Stella, J.C.**, Riparian vegetation and fluvial interactions at multiple scales. Symposium on aquatic-terrestrial linkages. Umeå, Sweden, March 2015.
- Stella, J.C.**, H. Piégay, G.M. Kondolf, D. Roux-Michollet, International workshop on large river management, Rhône and Sacramento rivers. Collaborative exchange among managers and scientists with the California Department of Water Resources, The Nature Conservancy, U.S. Fish and Wildlife Service, American Rivers, and the French Water Agency (Agence de l'eau), and the French National Center for Scientific Research (CNRS). Berkeley, CA. 14-17 December 2014, **(co-organizer)**.
- Stella, J.C.**, H. Piégay, G. David, and B. Eaton, River-Floodplain Connectivity: Interactions among Riparian Vegetation, Fluvial Wood, Stream Morphodynamics and Biogeochemical Cycles. American Geophysical Union Fall Meeting, San Francisco, CA, December 2014, **(special session co-organizer)**.
- Stella, J.C.**, Riparian forest dynamics and management challenges on Mediterranean-climate rivers. Restoring the West Conference, Utah State University. Logan, UT, October 2014
- Stella, J.C.**, K. Holl, V. Matzek, and M. Dixon, Connecting mountains to the sea: riparian research and management challenges in large river systems. Annual Meeting of the Ecological Society of America, Sacramento, CA, August 2014., **(special session co-organizer)**.
- Stella, J.C.**, 2014. Développement et enjeux de la gestion des ripisylves sur les grands fleuves (Riparian forest development and management challenges on large river floodplains). Café Fluvial, École Normale Supérieure de Lyon. Lyon, France, June 2014
- Stella, J.C.**, Populus nigra growth and water use under a changing climate: insights from stable isotopes in tree rings. Institut National de la Recherche Agronomique d'Orléans and University of Tours. Orleans, France, May 2014

- Stella, J.C.**, Trends in water use and growth for riparian trees undergoing climatic drying. Instituto Superior de Agronomia, Universidade de Lisboa. Lisbon, Portugal, March 2014
- Stella, J.C.**, Trends in water use efficiency, and tradeoffs between growth and function for riparian trees undergoing climatic drying. Department of Geography, University of Rennes. Rennes, France, February 2014
- Stella, J.C.**, Un fleuve durable? Managing large rivers for human and ecosystem needs: the case of the Middle Rhône. Collegium de Lyon Seminar Series, École Normale Supérieure de Lyon. Lyon, France, October 2013
- Stella, J.C.**, Recent advances in quantifying plant and geomorphic feedbacks in alluvial rivers. Earth Sciences Department, University of New Hampshire. Durham, NH, April 2013
- Stella, J.C.** J. Riddle, J.J. Battles, Coevolution of floodplain and riparian forest dynamics on large, meandering rivers. Invited oral presentation at the American Geophysical Union Fall Meeting, San Francisco, CA, December 2012.
- Stella, J.C.**, Emerging issues in riparian science in arid regions. Center for Watershed Sciences, University of California, Davis. Davis, CA, December 2012
- Stella, J.C.**, Partnering with Beaver in Stream Restoration Short Course, Utah State University, Logan, UT, October 2012, **(invited instructor)**.
- Stella, J.C.**, Riparian forest dynamics on the Sacramento River (California, USA): impacts and implications for management. Research briefing for U.S. Fish and Wildlife Service personnel, Willows, CA. July 2012.
- Stella, J.C.**, Com'Eau Labo Workshop - Better communication and collaboration between managers and scientists: discussions about current practices in France and the United States IS Rivers International Conference (Integrative Sciences and Sustainable Development of Rivers), Lyon, France, June 2012.
- Stella, J.C.**, Réponse des ripisylves à une modification du régime hydrologique : diagnostic et propositions de restauration (Riparian forest response to modified riparian hydrological regimes: diagnosis and proposals for restoration). Colloque 13: Réhabilitation des hydrosystèmes: enjeux scientifiques et nouvelles perspectives ("Symposium 13: Rehabilitation of hydrosystems: scientific issues and new perspectives"). Entretiens Jacques Cartier 2011. Montreal, Canada, October, 2011.
- Stella, J.C.**, Partnering with Beaver in Stream Restoration Short Course, Utah State University. Loga, UT September 2011, **(invited instructor)**.
- Stella, J.C.** J. Riddle, H. Piégay, Dendroecology as an indicator of riparian function and drivers of meso-scale ecosystem impacts. International Association of Vegetation Science Meeting, Lyon, France, June 2011.
- Stella, J.C.** J. Riddle, H. Piégay, M. Teece, Integrating tree-ring and stable carbon isotope analysis to measure riparian ecosystem function, integrity, and meso-scale hydrogeomorphic impacts. Seventh Symposium for European Freshwater Sciences, Girona, Spain, June – July, 2011.
- Stella, J.C.**, J. Bendix, H. Piégay, and P. Downs, Non-equilibrium drivers in Mediterranean climate river and riparian ecosystems. American Geophysical Union Fall Meeting, San Francisco, CA, December 2010, **(special session organizer)**.
- Stella, J.C.**, INECOL/SUNY-ESF research collaboration workshop. Presentation on professional research program and FNRM discipline areas. Instituto de Ecología, A.C. (INECOL), Xalapa, Mexico. March 15, 2010.

- Stella, J.C.**, A.K. Fremier, S. Dufour, and H. Piégay, Ecological processes on abandoned riparian floodplains. Annual Meeting of the Ecological Society of America, Albuquerque, NM, August 2009, **(special session organizer)**.
- Stella, J.C.**, A river runs through it: modeling and restoring riparian forests on dynamic floodplains. Invited speaker, Bowdoin College Biology Seminar Series. Brunswick, ME. Sept. 2009.
- Stella, J.C.**, Abiotic Controls on Riparian Forest Development at Leaf to Landscape Scales. Invited speaker, Syracuse University Biology Seminar Series. Syracuse, NY. February, 2009.
- Stella, J.C.**, Scaling from the leaf to the floodplain: Linking physiology studies with life history traits to restore streamside forests in arid regions. IGERT Biogeochemistry and Environmental Biocomplexity Seminar, Cornell University. Ithaca, NY. October, 2007.
- Stella, J.C.**, Quantitative approaches to restoring streamside forests in a water-limited ecosystem. Department of Geography Symposium, Syracuse University. Syracuse, NY. September, 2007.
- Stella, J.C.**, Quantitative approaches to riparian restoration in California (USA). River Restoration International Symposium. Madrid, Spain. September, 2006.
- Stella, J.C.**, Research featured in Forests Round the Bend, a special issue on riparian restoration efforts on the Sacramento River. Science-In-Action Newsletter, CALFED Bay-Delta Program. Sacramento, CA, 2003, **(special feature)**.

## PROFESSIONAL SERVICE

### Boards of directors

- *The Nature Conservancy*, Western and Central New York Chapter. 2015–2023.
- *Onondaga Earth Corps*, Syracuse, NY. 2016–2023.
- *Town of DeWitt Urban Tree Committee*, DeWitt, NY. 2015–2016
- *The Star Foundation* private philanthropy, EIN 256761169. 2001–2021.

### Editorial roles and conference planning

- Subject Matter Editor, *Ecological Applications*, Ecological Society of America (2016—present)
- Editorial Advisory Board member, *Riparian Ecology and Conservation* (2012–2017)
- Conference planning committee, *Confluence to Influence: Preserving and enhancing the multiple functions and services of riparian zones in a changing climate*. Davis, CA. (Oct. 2017)
- Conference scientific committee, *2015 I.S. Rivers Conference — Integrative sciences and sustainable development of rivers*. Lyon, France (June 2015)
- Special session convener, *American Geophysical Union Annual Meeting* (2010, 2014) and *Ecological Society of America Annual Meeting* (2009, 2014)

### Journal reviews for

*Ecological Applications; Water Resources Research; Frontiers in Ecology and the Environment; BioScience: Ecohydrology; Global Change Biology; River Research and Applications; Hydrobiologia; Forest Ecology and Management; Earth Surface Processes and Landforms; Riparian Ecology and Conservation; Ecoscience; Wetlands; Ecological Restoration; Environmental Management; JAWRA*

### Proposal reviews for

- National Science Foundation
- French National Research Agency (ANR) proposal panel, 2019–2020
- French National Network of Institutes of Advanced Study (RFIEA)
- Northeastern States Research Cooperative (USDA Forest Service)
- USDA Cooperative State Research Service Grant Program

**Technical reviews for:**

- US Bureau of Reclamation, Technical Review for Grand Canyon/Glen Canyon Dam Adaptive Management Program, Grand Canyon Monitoring and Research Center 2020 Annual Report
- Trinity River Restoration Program, Technical Review for FY13 Preliminary Science Workplan
- Platte River Recovery Implementation Program, Directed Vegetation Research Study. 2011.
- Yuba River Development Project, FERC Relicensing Project No. 2246. 2011.
- USGS Geomorphic and Sediment Transport Laboratory. Project for monitoring vegetation change on the central Platte River, NE. 2007.
- CA Regional Water Quality Control Boards. Proposed Stream and Wetlands Protection Policy for North Coast and San Francisco Bay Regions. 2006.
- CA Dept. of Fish and Game. Protocol for quantitative studies of riparian restoration effectiveness. 2004.
- CA Dept. of Water Resources. Robinson Reach revegetation and monitoring plan, Merced River, CA. 2002.

**PROFESSIONAL AFFILIATIONS**

Ecological Society of America  
American Geophysical Union  
Society for Ecological Restoration  
Society of Wetland Scientists

**STUDENT AND POST-DOC ADVISEES**

- Yu Zhao, Ph.D. (in progress), Environmental Science
- Rachael Pentico, M.S., 2024, Environmental Science
- Jared Williams, Ph.D., 2024, Environmental Science
- Melissa Rohde, Ph.D., 2023, Environmental Science
- Jordan Jessamy, M.S., 2023, Natural Resources Management
- Lissa Pelletier, M.S., 2022, Environmental Science
- Rachel Zevin, M.S., 2022, Environmental Science
- Michael Rosenthal, M.S., 2021, Environmental Biology (Co-MP with Dr. Shannon Farrell)
- Alex Zi Xun Kua. M.S., 2019, Environmental Biology (Co-MP with Dr. John Farrell)
- Michael Mahoney, B.S., 2018, Forest Ecosystem Science (honors thesis research)
- Andrea Irons, M.S., 2016, Environmental Science
- Li Kui, Ph.D., 2015, Environmental Science
- Carissa Alza, M.S., 2014, Environmental Forest Biology (Co-MP Dr. Stacy McNulty)
- Stefan Karkuff, M.S., 2014, Environmental Forest Biology (Co-MP Dr. Kim Schulz)
- Tyler Hall, M.P.S., 2013, Natural Resources Management
- Anna Harrison, M.S., 2011, Natural Resources Management
- Laura Schifman, M.S., 2010, Natural Resources Management
- Kacie Gehl., M.S., 2010, Natural Resources Management
- Laura Johnstone, M.P.S., 2010, Natural Resources Management
- Sara Scanga, Ph.D., 2009-2010, Post-doctoral fellow
- Elizabeth Harper, 2008-2010, Post-doctoral fellow
- Alex Fremier, 2008, Post-doctoral fellow