

# Kristen E. Dybala

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## EDUCATION

- 2012 Ph.D. in Ecology, University of California, Davis  
2001 BA in Biology and Anthropology, Rice University

## PROFESSIONAL APPOINTMENTS

- 2018– Principal Ecologist, Point Blue Conservation Science  
2015–18 Senior Research Ecologist, Point Blue Conservation Science  
2014–15 Postdoctoral Researcher, Point Blue Conservation Science  
2012–14 Postdoctoral Scholar, Museum of Fish and Wildlife Biology, University of California, Davis

## PUBLICATIONS

- In review **Dybala KE**, Sesser K, Reiter ME, Shuford WD, Golet GH, Hickey C, Gardali T (In review) Priority Bird Conservation Areas
- 2022 [22] Golet GH, **Dybala KE**, Reiter ME, Sesser KA, Reynolds M, Kelsey R (2022) Shorebird food energy shortfalls and the effectiveness of habitat incentive programs in record wet, dry and warm years. *Ecological Monographs* 92(4):e1541.  
doi: [10.1002/ecm.1541](https://doi.org/10.1002/ecm.1541)
- 2021 [20] Dettling M, **Dybala KE**, Humple D, Gardali T (2021) Protected areas safeguard landbird populations in central coastal California: Evidence from long-term population trends. *Ornithological Applications* 123(4):duab035.  
doi: [10.1093/ornithapp/duab035](https://doi.org/10.1093/ornithapp/duab035)
- [21] Gardali T, **Dybala KE**, Seavy NE (2021) Multiple-Benefit Conservation defined. *Conservation Science and Practice* 3(6):e420.  
doi: [10.1111/csp2.420](https://doi.org/10.1111/csp2.420)
- 2020 [18] **Dybala KE**, Gardali T, Melcer RE (2020) Getting our heads above water: Integrating bird conservation in planning, science, and restoration for a more resilient Sacramento–San Joaquin Delta. *San Francisco Estuary and Watershed Science* 18(4).  
doi: [10.15447/sfews.2020v18iss4art2](https://doi.org/10.15447/sfews.2020v18iss4art2)
- [19] Humple D, Cormier RL, Burnett RD, Seavy NE, **Dybala KE**, Gardali T (2020) Migration tracking reveals geographic variation in the vulnerability of a Nearctic–Neotropical migrant bird. *Scientific Reports* 10:5483.  
doi: [10.1038/s41598-020-62132-6](https://doi.org/10.1038/s41598-020-62132-6)
- 2019 [16] **Dybala KE**, Matzek V, Gardali T, Seavy NE (2019) Carbon sequestration in riparian forests: a global synthesis and meta-analysis. *Global Change Biology* 25:57–67.  
doi: [10.1111/gcb.14475](https://doi.org/10.1111/gcb.14475). Supporting data: [10.5281/zenodo.1252510](https://doi.org/10.5281/zenodo.1252510)
- [17] **Dybala KE**, Steger K, Walsh RG, Smart DR, Gardali T, Seavy NE (2019) Optimizing carbon storage and biodiversity co-benefits in reforested riparian zones. *Journal of Applied Ecology* 56:343–353.  
doi: [10.1111/1365-2664.13272](https://doi.org/10.1111/1365-2664.13272). Supporting data: [10.5061/dryad.2h63d10](https://doi.org/10.5061/dryad.2h63d10)

- 2018 [15] **Dybala KE**, Engilis A, Trochet JA, Engilis IE, Truan ML (2018) Evaluating riparian restoration success: Long-term, large-scale responses of the breeding bird community in California's lower Putah Creek watershed. *Ecological Restoration* 36:76-85.  
doi: [10.3368/er.36.1.76](https://doi.org/10.3368/er.36.1.76)
- 2017 [08] **Dybala KE**, Clipperton N, Gardali T, Golet GH, Kelsey R, Lorenzato S, Melcer R, Seavy NE, Silveira JG, Yarris GS (2017) A general framework for setting long-term population objectives. *San Francisco Estuary and Watershed Science* 15(1).  
doi: [10.15447/sfews.2017v15iss1art8](https://doi.org/10.15447/sfews.2017v15iss1art8)
- [09] **Dybala KE**, Clipperton N, Gardali T, Golet GH, Kelsey R, Lorenzato S, Melcer R, Seavy NE, Silveira JG, Yarris GS (2017) Population and habitat objectives for avian conservation in California's Central Valley riparian ecosystems. *San Francisco Estuary and Watershed Science* 15(1).  
doi: [10.15447/sfews.2017v15iss1art5](https://doi.org/10.15447/sfews.2017v15iss1art5)
- [10] **Dybala KE**, Reiter ME, Hickey C, Shuford WD, Strum KM, Yarris GS (2017) A bioenergetics approach to setting conservation objectives for non-breeding shorebirds in California's Central Valley. *San Francisco Estuary and Watershed Science* 15(1).  
doi: [10.15447/sfews.2017v15iss1art2](https://doi.org/10.15447/sfews.2017v15iss1art2)
- [11] DiGaudio RT, **Dybala KE**, Seavy NE, Gardali T (2017) Population and habitat objectives for avian conservation in California's Central Valley grassland-oak savannah ecosystems. *San Francisco Estuary and Watershed Science* 15(1).  
doi: [10.15447/sfews.2017v15iss1art6](https://doi.org/10.15447/sfews.2017v15iss1art6)
- [12] Shuford WD, **Dybala KE** (2017) Conservation objectives for wintering and breeding waterbirds in California's Central Valley. *San Francisco Estuary and Watershed Science* 15(1).  
doi: [10.15447/sfews.2017v15iss1art4](https://doi.org/10.15447/sfews.2017v15iss1art4)
- [13] Strum KM, **Dybala KE**, Iglecia MN, Shuford WD (2017) Population and habitat objectives for breeding shorebirds in California's Central Valley. *San Francisco Estuary and Watershed Science* 15(1).  
doi: [10.15447/sfews.2017v15iss1art3](https://doi.org/10.15447/sfews.2017v15iss1art3)
- [14] Trochet JA, Engilis A, Truan ML, Engilis IE, **Dybala KE**, Walsh RG, Whisler E (2017) New and extralimital records of breeding birds for Putah Creek, California. *Western Birds* 48:154-172.  
doi: [10.21199/WB48.3.1](https://doi.org/10.21199/WB48.3.1)
- 2015 [06] **Dybala KE**, Truan ML, Engilis A (2015) Summer vs. winter: Examining the temporal distribution of avian biodiversity to inform conservation. *Condor* 117:560-576.  
doi: [10.1650/CONDOR-1-41.1](https://doi.org/10.1650/CONDOR-1-41.1)
- [07] Schmidt AE, **Dybala KE**, Botsford LW, Eadie JM, Bradley RW, Jahncke J (2015) Shifting effects of ocean conditions on survival and breeding probability of a long-lived seabird. *PLOS One* 10:e0132372.  
doi: [10.1371/journal.pone.0132372](https://doi.org/10.1371/journal.pone.0132372)
- 2014 [05] **Dybala KE**, Seavy NE, Dettling MD, Gilbert M, Melcer R, Gardali T (2014) Does restored riparian habitat create ecological traps for riparian birds through increased Brown-headed Cowbird nest parasitism?. *Ecological Restoration* 32:239-248.  
doi: [10.3368/er.32.3.239](https://doi.org/10.3368/er.32.3.239)
- 2013 [03] **Dybala KE**, Eadie JM, Gardali T, Seavy NE, Herzog MP (2013) Projecting demographic responses to climate change: Adult and juvenile survival respond differently to direct and indirect effects of weather in a passerine population. *Global Change Biology* 9:2688-2697.  
doi: [10.1111/gcb.12228](https://doi.org/10.1111/gcb.12228)

- [04] **Dybala KE**, Gardali T, Eadie JM (2013) Dependent vs. independent juvenile survival: Contrasting drivers of variation and the buffering effect of parental care. *Ecology* 94:1584-1593.  
doi: [10.1890/12-1443.1](https://doi.org/10.1890/12-1443.1)
- 2011 [02] Porzig E, **Dybala KE**, Gardali T, Ballard G, Geupel GR, Wiens JA (2011) Forty-five years and counting: Reflections from the Palomarin Field Station on the contribution of long-term monitoring and recommendations for the future. *Condor* 113:713-723.  
doi: [10.1525/cond.2011.100214](https://doi.org/10.1525/cond.2011.100214)
- 2008 [01] Seavy NE, **Dybala KE**, Snyder MA (2008) Climate models and ornithology. *Auk* 125:1-10.  
doi: [10.1525/auk.2008.125.1.1](https://doi.org/10.1525/auk.2008.125.1.1)

## SELECT WHITE PAPERS & TECHNICAL REPORTS

- In press Conlisk E, Chamberlain E, Vernon M, **Dybala KE** (In press) Evidence for Carbon and other Co-benefits of Wetland Conservation in North America: a rapid evidence assessment. *Point Blue Conservation Science*, Petaluma, CA
- 2022 Roberts LJ, Burnett R, Loffland H, Campos B, Gardali T, **Dybala KE** (2022) Foothills to Sierra: Conservation Objectives for Birds in California's Sierra Meadows. *Point Blue Conservation Science*, Petaluma, CA
- Dybala KE**, Thalmayer I, Gardali T, Carey CJ (2022) Inoculant-Supported Restoration: A Technical Report. *Point Blue Conservation Science*, Petaluma, CA.  
Available from: <http://pointblue.org/isr>
- Null S, Mount J, Gray B, **Dybala KE**, Sencan G, Sturrock A, Thompson B, Zeff H (2022) Storing Water for the Environment: Operating Reservoirs to Improve California's Freshwater Ecosystems. *Public Policy Institute of California*, NA.  
Available from: <https://www.ppic.org/publication/storing-water-for-the-environment/>
- 2017 Peterson CA, Marvinney E, **Dybala KE** (2017) Multiple Benefits from Agricultural and Natural Land Covers in California's Central Valley. *Migratory Bird Conservation Partnership*, Sacramento, CA.  
Available from: [http://www.prbo.org/refs/files/12650\\_PetersonCA2020.pdf](http://www.prbo.org/refs/files/12650_PetersonCA2020.pdf)

## RESEARCH GRANTS

- 2022–26 **PI**, California Department of Fish and Wildlife Proposition 1 Delta Water Quality and Ecosystem Restoration Grant Program, Fiscal Year 2021-22. "Trade-offs and Co-benefits of Landscape Change in the Sacramento-San Joaquin River Delta: Phase II Tidal Wetlands and Restoration" (\$198k)
- 2020–24 **Co-PI**, U.S. Bureau of Reclamation WaterSmart Program. "Central Valley wetlands and groundwater management: Tools to guide effective use of water resources" (\$150k)
- 2021–23 **Co-PI**, Wildlife Conservation Board Climate Adaptation and Resilience Program. "Building climate resiliency in Central Valley wetlands: Expanding long-term impact" (\$170k)
- 2019–23 **PI**, California Department of Fish and Wildlife Proposition 1 Delta Water Quality and Ecosystem Restoration Grant Program, Fiscal Year 2019-20. "Trade-offs and Co-benefits of Landscape Change Scenarios on Bird Communities and Ecosystem Services in the Sacramento-San Joaquin River Delta" (\$248k)
- 2019–22 **Co-PI**, Wildlife Conservation Society Climate Adaptation Fund. "Inoculant-Supported Restoration of California's Rangeland Riparian Corridors" (\$168k)

## ORGANIZED SYMPOSIA

- 2022 Littlefield C, **Dybala KE**, Graves R, Ontl T (2022) Carbon and Critters: Ensuring Natural Climate Solutions in Forests and Woodlands account for Wildlife Habitat Needs. *Interactive session at the North American Congress for Conservation Biology meeting*, Reno, NV
- 2019 Gardali T, Seavy NE, **Dybala KE** (2019) Birds with benefits: evidence and trade-offs of multiple-benefit conservation focused on birds. *Symposium at the American Ornithological Society meeting*, Anchorage, AK
- 2018 **Dybala KE**, Clark B, Arthur S (2018) Development of a wetland water budget tool. *Workshop for the Migratory Bird Conservation Partnership and partners*, Sacramento, CA
- 2017 **Dybala KE**, Seavy NE, Gardali T, Kelsey R (2017) Making multiple benefits real: Opportunities and barriers to increasing the pace and scale of riparian restoration in California. *Symposium at the Riparian Summit 2017*, Davis, CA
- Dybala KE** (2017) Understanding groundwater recharge as a co-benefit of migratory bird habitat in California's Central Valley. *Migratory Bird Conservation Partnership workshop*, Sacramento, CA

## SELECT INVITED PRESENTATIONS

- 2022 **Dybala KE** (2022) Multiple-Benefit Conservation in the Sacramento-San Joaquin Delta. *Slough-Side Chat seminar series, hosted by the Delta Science Program*, Virtual
- Dybala KE** (2022) Multiple-Benefit Conservation. *Creek Speak seminar series, hosted by the Putah Creek Council*, Virtual
- Dybala KE** (2022) Riparian zones with benefits: biodiversity, carbon, and beyond. *Community meeting hosted by the Mid-Coast Watershed Council*, Virtual
- 2021 **Dybala KE** (2021) Multiple-Benefit Conservation: a pathway for collaborative, inclusive, and effective conservation. *Pacific Wildlife Research Centre seminar series, hosted by Environment and Climate Change Canada*, Virtual
- Dybala KE** (2021) Buffers with benefits: carbon, biodiversity, partnerships. *2021 Buffer Summit, hosted by the Upper & Middle James Riparian Consortium*, Virtual

## SELECT CONFERENCE PRESENTATIONS

- 2022 **Dybala KE** (2022) Multiple-Benefit Conservation in Practice: Quantifying Multi-dimensional Impacts of Landscape Change in the Sacramento-San Joaquin Delta of California. *North American Congress for Conservation Biology*, Reno, NV
- 2021 **Dybala KE** (2021) Identifying high priority areas for bird conservation in the Delta. *Bay-Delta Science Conference*, Virtual
- 2020 **Dybala KE** (2020) Palomarin Field Station Data Explorer: Communicating the value of a long-term field station. *North American Ornithological Congress*, Virtual
- 2019 **Dybala KE**, Steger K, Walsh RG, Smart DR, Gardali T, Seavy NE (2019) Optimizing carbon storage and biodiversity conservation co-benefits in reforested riparian zones. *American Ornithologists Society*, Anchorage, AK
- Dybala KE**, Cormier R, Allen H, Seavy NE, Gardali T (2019) Multiple benefits of riparian restorations in California: documenting, communicating, optimizing. *California Society for Ecological Restoration (SERCAL)*, Santa Barbara, CA

- 2018 **Dybala KE**, Matzek V, Gardali T, Seavy NE (2018) Carbon sequestration in riparian forests: a global meta-analysis. *I.S. Rivers, 3rd international conference on integrative sciences and sustainable development of large rivers*, Lyon, France
- 2017 **Dybala KE**, Gardali T, Grossman J, Kelsey R, Seavy NE (2017) Riparian bird responses to a large-scale restoration experiment. *Riparian Summit 2017*, Davis, CA
- Dybala KE**, Steger K, Walsh RG, Smart DR, Gardali T, Seavy NE (2017) Multiple metrics of riparian restoration success: comparing soil, vegetation, and birds. *Riparian Summit 2017*, Davis, CA
- 2016 **Dybala KE**, Seavy NE, Gardali T (2016) Carbon sequestration in riparian zones: a global meta-analysis. *Natural Areas Conference*, Davis, CA
- Dybala KE**, Seavy NE, Gardali T (2016) Measuring restoration success using Central Valley Joint Venture objectives. *California Society for Ecological Restoration (SERCAL)*, North Lake Tahoe, CA
- 2015 **Dybala KE**, Rayburn A, Rentner J, Seavy NE, Gardali T (2015) Measuring restoration success: Applying the Central Valley Joint Venture population objectives for riparian birds. *San Joaquin River Restoration Program Science Meeting*, Los Banos, CA
- Dybala KE**, Seavy NE, Gilbert M, Gardali T (2015) A science-based framework for setting riparian landbird population objectives in California's Central Valley. *The Wildlife Society Western Section Annual Meeting*, Sacramento, CA

## SERVICE

- 2018–21 Staff liaison, Science Advisory Committee, Point Blue Conservation Science
- 2017–20 Chair, Science Committee, Migratory Bird Conservation Partnership
- 2016–20 Associate Editor, Condor
- 2016–17 Steering Committee, Steering Committee, Riparian Summit 2017
- 2007–12 Founder and Director, Graduate Student Symposium in Ecology, University of California, Davis
- 2008–09 President, Davis chapter, Society for Conservation Biology