

**Randall Long**  
randywlong@gmail.com

---

**Visiting Assistant Professor**  
Department of Biology, Lewis and Clark College

**Research Interests**  
Plant ecophysiology; Local adaptation; Plant diversity; Carbon allocation

**Education and Postdoc Experience**

2014	California Polytechnic State University, San Luis Obispo Bachelor of Science in Agricultural and Environmental Plant Sciences Minor: Biology
2020	University of California Santa Barbara PhD of Ecology, Evolution, and Marine Biology California Certificate of Undergraduate Teaching
2020-2021	Postdoctoral Research Associate Holden Arboretum, Kirtland, OH

**Publications**

- **Long R.**, D. Ward, \*C. Baker, J. Medeiros (2021). Some like it dry: Interpopulation differences in leaf vulnerability to drought embolism in a widespread conifer with extremely drought resistant wood xylem. (Submitted, proof available upon request)
- **Long R.**, C.M. D'Antonio, T.L. Dudley, K.R. Hultine (2021). Variation in salinity tolerance and water use strategies in an introduced woody halophyte (*Tamarix* spp.). *Journal of Ecology* (Accepted, proof available on request)
- **Long R.**, K.C. Grady, C.M. D'Antonio, T.L. Dudley, K.R. Hultine (2021). Spenders and savers: an inter-population comparison of carbon allocation in a non-native woody plant. *Functional Ecology*
- Majumdar S., **R. Long**, J. Kirkwood, A. Minakova, A. Keller (2021) Unraveling Metabolic and Proteomic Features in Soybean Plants in Response to Copper Hydroxide Nanowires Compared to a Commercial Fertilizer. *Env Sci &Tech*
- **Long R.**, C.M. D'Antonio, T.L. Dudley, K.R. Hultine, A.M. Lambert (2021). Salinity driven interactions between plant growth and a biological control agent. *Biol Inv*
- Hultine K.R., D. Dehn, S.E. Bush, K. Acharya, C. D'Antonio, T. Dudley, J. Healey, J. Hull, D. Koepke, **R. Long**, D. Potts (2021) Episodic defoliation rapidly reduces starch but not soluble sugars in an invasive shrub, *Tamarix* spp. *American Journal of Botany*

- S.E. Bush, J. Guo, D. Dehn, K.C. Grady, J.B. Hull, E. Johnson, D.F. Koepke, **R. Long**, D.L. Potts, K.R. Hultine (2021) Adaptive versus non-adaptive responses to drought in a non-native riparian tree/shrub, *Tamarix* spp. *Agricultural and Forest Meteorology*
  - **Long R.**, J. Medeiros (2020) Water in, water out: root form influences leaf function. *New Phytologist*
  - \*Williams J., A.M. Lambert, **R. Long**, K. Saltonstall (2019) Does hybrid *Phragmites australis* differ from native and introduced lineages in reproductive, genetic, and morphological traits? *American Journal of Botany*
  - **Long R.**, S.E. Bush, K.C. Grady, D.S. Smith, D.L. Potts, C.M. D'Antonio, T.L. Dudley, S.D. Fehlberg, J.F. Gaskin, E.P. Glenn, K.R. Hultine (2017) Can local adaptation explain varying patterns of herbivory tolerance in a recently introduced woody plant in North America? *Conservation physiology*
  - Lambert A.M., K. Saltonstall, **R. Long**, T.L. Dudley (2016). Biogeography of native and introduced *Phragmites* lineages in the southwestern United States. *Biological Invasions*
- \*Undergraduate mentee

### Teaching experience

Teaching assistant unless otherwise noted

- 2021 BIO 100 – Biological Perspectives (Professor, Lewis & Clark College)
- 2019 ES 119 - Ecology and Management of California Wildlands (Instructor of record)  
INT 91 – Intro to Aquatic Science (Instructor of record)  
EEMB 168 – Conservation Ecology\*
- 2018 ES 100 – Environmental Ecology  
EEMB 157 – Plant Physiology  
EEMB 168 – Conservation Ecology\*
- 2017 ES 100 – Environmental Ecology  
EEMB 157 – Plant Physiology  
EEMB 168 – Conservation Ecology\*
- 2016 ES 100 - Environmental Ecology
- 2015 EEMB 119 – Ecology and Management of California Wildlands  
EEMB 2/MCDB 1A – Introductory Biology
- 2014 ES 100 - Environmental Ecology  
Pomology 2 (CalPoly)  
Advanced Weed Management (CalPoly)
- 2013 California Fruit Production (CalPoly)
- \*Independently designed section curriculum for Conservation Ecology

### Presentations

- 2021 Ecological Society of America. Long RW, JS Medeiros. Interpopulation differences in water use traits and drought responses in a widespread conifer (*Juniperus virginiana*)

- 2020 Invited seminar at Buffalo State College. Long R. Plants on the Move: Using intraspecific trait variation to understand range expansions
- Riparian Restoration Conference. Long RW, CM Antonio, TL Dudley, KR Hultine, AM Lambert. Salinity-insect-plant interactions, tamarisk beetle preference for healthy plants increases defoliation effects
- 2019 Southern California Botanical Society. Long R, A.M. Lambert, K. Saltonstall, J. Williams. Does hybrid *Phragmites australis* differ from native and introduced lineages in reproductive, genetic, and morphological traits?
- Riparian Restoration Conference. Long RW, CM Antonio, TL Dudley, KC Grady, SE Bush, KR Hultine. Spenders and savers, Carbon Spenders and Savers, an interpopulation comparison of a woody plant species
- 2018 Ecological Society of America. Long RW, CM Antonio, TL Dudley, , SE Bush, KR Hultine. Carbon savers and spenders: An interpopulation comparison of climate influences on allocation in a dominant tree
- Ecological Society of America. Long RW, DL Potts. Widely distributed riparian and wetland species as model organisms for functional trait ecology research
- Riparian Restoration Conference. Long RW. Trait variation across *Tamarix* populations.
- 2017 Biennial Conference of Science and Management for the Colorado Plateau and Southwest Region. Long RW. Some like it salty: local adaptation in *Tamarix* across a salinity gradient on the Colorado River.
- Ecological Society of America. Long RW, SE Bush, KH Hultine. Tradeoffs in heritable resource allocation traits of a non-native woody plant in response to local site conditions