

**Randall Long**  
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## Research Interests

Plant ecophysiology; Local adaptation; Plant insect interactions; Carbon allocation

## Education

- 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  
Committee chair: Dr. Carla D'Antonio  
Major Professor: Dr. Tom Dudley  
Committee members: Kevin Hultine, Adam Lambert, Doug McCauley

## References

Dr. Kevin Hultine: Researcher at Desert Botanical Garden, I have been working with Kevin for the past five years investigating the ecophysiology of tamarisk.  
[Khultine@dbg.org](mailto:Khultine@dbg.org), 801-824-7790

Dr. Tom Dudley: Researcher at UC Santa Barbara, Tom is my research advisor and we have been working together on various projects for the past six years on tamarisk and arundo.  
[tdudley@msi.ucsb.edu](mailto:tdudley@msi.ucsb.edu), 805-698-8251

Dr. Dan Potts: Faculty member at Buffalo State College, I have collaborated with Dan over the past five years on various gas exchange measurements on phragmites and tamarisk.  
[pottsd@buffalostate.edu](mailto:pottsd@buffalostate.edu), 716-260-7152

Dr. Carla D'Antonio: Faculty member at UC Santa Barbara, Carla has served as my committee chair and faculty advisor. She has primarily worked with me on developing my academic skills and we worked together on a hiring committee for a plant ecophysiology, which she nominated me for as the student representative.  
[dantonio@es.ucsb.edu](mailto:dantonio@es.ucsb.edu), 805-698-8249

## Publications

- \*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.  
\*Undergraduate mentee research project
- **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.
- In prep: **Long R.**, K.C. Grady, C.M. D'Antonio, T.L. Dudley, K.R. Hultine Spenders and savers: an inter-population comparison of carbon allocation in a non-native woody plant. (Manuscript available on request)

## Awards and Honors (\$75,000)

2019	UCSB Storke Fellowship (\$2,500) Olivia Converse Fellowship (Endowment to support plant ecology studies in Mexico, \$15,000)
2017,2018	UCSB Department of Ecology, Evolution and Marine Biology Block Grant (\$3,000)
2017	Worster Award (Summer funding provided to graduate students mentoring undergraduates in ecology, \$5,000)
2016	UC Mexus Small Grants Award (\$2,500)
2015-2016	Olivia Long Converse Fellowship (\$45,000)
2014-2015	Coastal Fund Major Funding to support undergraduate work on <i>Arundo donax</i> (\$3,000)

## Conference Presentations

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| 2019 | Southern California Botanical Society. Long R, A.M. Lambert, K. Saltonstall, J. Williams. Does hybrid <i>Phragmites australis</i> 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, KC Grady, 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 Lower 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

## Service

Peer Reviewer: Conservation Physiology, Plant Physiology and

Professional Society Member: Ecological Society of America, Southwest and Physiological Ecology chapters

Session organizer/presider: Ecological Society of America 2018, "Grand Challenges in Riparian and Wetland Ecology"; Conference of Science and Management for the Colorado Plateau and Southwest 2017, "Tamarisk from organism to landscape".

Graduate student association department representative (2014-2015)

Department of Ecology, Evolution, and Marine Biology student advisory committee vice chair (2018-2019)

Student Representative to Department of Ecology, Evolution, and Marine Biology hiring committee for Plant Physiological Ecologist (2018-2019)

## Mentor Experience

One of my passions is working with undergrads, and I have worked with many students during my time at UCSB. As a result of this I have had multiple students receive grants (partial list below) and one student, Valerie Lee, complete an honors thesis in the Environmental Studies Department.

### Undergraduate Grants

Jared Williams	2014	UCSB coastal fund, URCA*
	2015	Research enhancement grant, URCA, UCSB coastal fund
Javi Venegas	2014	UCSB Coastal Fund
Cannon Joyce	2015	UCSB Coastal Fund, FRAP*
Stephen Gerken	2016	FRAP
Augustus VanKirk	2017	FRAP
Catherine Patton	2017	Worster Award
Eric Pelligrini	2018	FRAP

\*URCA- Undergraduate Research and Creative Activities grant (UCSB)

\*FRAP- Faculty Research Assistance Program (UCSB)

## Teaching experience

Teaching assistant unless otherwise noted

- 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

\*Independently designed section curriculum for Conservation Ecology