

# Matthew M. Kling

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<b>RESEARCH</b>	I investigate how climate shapes the geographic distributions of genes, species, and ecosystems, and how this understanding can inform biodiversity conservation in the face of climate change. I primarily study plants using big data.	
<b>EDUCATION</b>	<b>PhD, Integrative Biology</b>	<i>expected 2020</i>
	University of California, Berkeley Advisor: David Ackerly	
	<b>BA, Conservation Biology &amp; Environmental Studies</b>	<i>2005</i>
	Middlebury College Advisors: Stephen Trombulak & Andrea Lloyd	
<b>EMPLOYMENT</b>	Consultant in Global Change Biology—NatureServe	<i>2015–present</i>
	Bioclimate Analyst—NatureServe	<i>2013–2015</i>
	Science Analyst—Brighter Planet	<i>2008–2013</i>
	Supervisory Biologist—Institute for Wildlife Studies	<i>2007–2008</i>
	Canid Ecology Crew Leader—Yellowstone Ecol. Rsrch. Center	<i>2005–2006</i>
	Plant Ecology Technician—US Geological Survey	<i>2005</i>
	Ungulate Ecology Technician—National Park Service	<i>2005</i>
	Environmental Intern—Administracion Ambiental Cooperativa Chilena	<i>2004</i>
	Research Assistant—USDA National Wildlife Research Center	<i>2002</i>
<b>AWARDS &amp; FELLOWSHIPS</b>	NSF Graduate Research Fellowship (\$102,000 + tuition)	<i>2015–2020</i>
	Berkeley Fellowship (\$60,000 + tuition)	<i>2015–2020</i>
	NSF National Research Trainee (Data Science for the 21st Century)	<i>2015–2017</i>
	USGS-NatureServe EcoInforma student app award (\$2000 travel)	<i>2015</i>
	EPA Apps for the Environment (National runner-up)	<i>2011</i>
	Departmental High Honors & <i>Magna Cum Laude</i> , Middlebury College	<i>2005</i>
<b>LANGUAGES &amp; SKILLS</b>	Spoken: English (native), French (adv.), Spanish (adv.), German (beg.)	
	Programming: R (adv.), Python (int.), L <sup>A</sup> T <sub>E</sub> X(int.), git (int.)	
	Geographic information systems: ArcGIS, R	
	Design software: Illustrator, InDesign, Photoshop	

## JOURNAL ARTICLES

Morueta-Holme, N., M. Oldfather, R. Olliff-Yang, A. Weitz, C. Lefine, **M. Kling**, E. Riordan, C. Merow, S. Sheth, A. Thornhill, and D. Ackerly (2018). Best practices for reporting climate data in ecology. *Nature Climate Change* 8:92–94

Thornhill, A., B. Baldwin, W. Freyman, S. Nostratinia, **M. Kling**, N. Morueta-Holme, T. Madsen, D. Ackerly, and B. Mishler (2017). Spatial phylogenetics of the native California flora. *BCM Biology* 15(1): 96

Hammerson, G., **M. Kling**, M. Harkness, M. Ormes, and B. Young (2017). Strong geographic and temporal patterns in the conservation status of North American bats. *Biological Conservation* 212: 144–152

Baldwin, B., A. Thornhill, W. Freyman, D. Ackerly, **M. Kling**, N. Morueta-Holme, and B. Mishler (2017). Species richness and endemism in the native flora of California. *American Journal of Botany*, 104(3): 487–501

Sterner, R., **M. Kling**, S. Schwiff, and D. Slate (2003). Oral rabies vaccination: reducing economic uncertainty via response surface analysis. *Proceedings of the 10th Wildlife Damage Management Conference* (K. Fagerstone, G. Witmer, Eds).

## TALKS & POSTERS

**Kling, M.** (2016, Dec). Multidecadal historic trends in California’s coastal fog. Poster presented at the American Geophysical Union, San Francisco, CA.

**Kling, M.**, E. Burns, P. Cowan, and H. Hamilton (2016, Sept). The coast redwood climate envelope: 20th-century trends across space and time. Paper presented at the Coast Redwood Science Symposium, Eureka, CA.

**Kling, M.**, M. Fernandez, and H. Hamilton (2014, Jul). Spatiotemporal patterns in greater sage-grouse exposure to recent climate change. Paper presented at the Society for Conservation GIS Conference, Monterey, CA.

**Kling, M.**, M. Fernandez, and H. Hamilton (2014, Jun). The biogeography of recent climate change in coast redwood ecosystems. Poster presented at the Smithsonian Botanical Symposium, Washington, DC.

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LITERATURE**

EcoAdapt (2014, *multiple authors*). A Climate Change Vulnerability Assessment for Resources of Nez Perce-Clearwater National Forests. Version 3.0. EcoAdapt, Bainbridge Island, WA.

Bureau of Land Management (2014, *multiple authors*). Madrean Archipeligo Rapid Ecoloregional Assessment. US BLM, Washington, DC.

**Kling, M.** and I. Hough (2011). Air travel carbon and energy efficiency: case studies, best practices, industry trends, airline rankings. Brighter Planet, San Francisco, CA. Presented at the 2012 Conference of the Institute for Computational Sustainability, Copenhagen, Denmark.

**Kling, M.** and I. Hough (2012). Hotel carbon and energy efficiency: chain rankings, industry trends, efficiency drivers, market patterns. Brighter Planet, San Francisco, CA

**Kling, M.** and I. Hough (2011). Employee Engagement in Sustainability. Brighter Planet, San Francisco, CA

**Kling, M.** and I. Hough (2010). The American carbon footprint: understanding your food's impact on climate change. Brighter Planet, San Francisco, CA

**Kling, M.** (2005). The ecophysiology of alpine treeline: spatial patterns in balsam fir (*Abies balsamea*) growth and water relations on Mount Abraham, Vermont. Undergraduate senior honors thesis, Middlebury College.