Matthew M. Kling

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RESEARCH

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 mostly study plants using big data.

EDUCATION

PhD, Integrative Biology *expected 2020*
University of California, Berkeley
Advisor: David Ackerly

BA, Conservation Biology & Environmental Studies *2005*
Middlebury College
Advisors: Stephen Trombulak & Andrea Lloyd

EMPLOYMENT

Consultant in Global Change Biology—NatureServe	*2015–present*
Bioclimate Analyst—NatureServe	*2013–2015*
Science Analyst—Brighter Planet	*2008–2013*
Supervisory Biologist—Institute for Wildlife Studies	*2007–2008*
Canid Ecology Crew Leader—Yellowstone Ecol. Rsrch. Center	*2005–2006*
Plant Ecology Technician—US Geological Survey	*2005*
Ungulate Ecology Technician—National Park Service	*2005*
Environmental Intern—Administracion Ambiental Cooperativa Chilena	*2004*
Research Assistant—USDA National Wildlife Research Center	*2002*

AWARDS & FELLOWSHIPS

NSF Graduate Research Fellowship ($102,000 + tuition)	*2015–2020*
Berkeley Fellowship ($60,000 + tuition)	*2015–2020*
NSF National Research Trainee (Data Science for the 21st Century)	*2015–2017*
USGS-NatureServe EcoInforma student app award ($2000 travel)	*2015*
EPA Apps for the Environment (National runner-up)	*2011*
Departmental High Honors & *Magna Cum Laude*, Middlebury College	*2005*

LANGUAGES & SKILLS

Spoken: English (native), French (adv.), Spanish (adv.), German (beg.)
Programming: R (adv.), Python (int.), LaTeX(beg.), git (int.)
Geographic information systems: ArcGIS, R
Design software: Illustrator, InDesign, Photoshop

JOURNAL ARTICLES

Baldwin, B., A. Thornhill, W. Freyman, D. Ackerly, **M. Kling**, N. Morueta-Holme, and B. Mishler (*in review*). Species richness and endemism in the California flora.

Hammerson, G., **M. Kling**, M. Harkness, M. Ormes, and B. Young (*in review*). Strong geographic and temporal patterns in the conservation status of North American bats.

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.

GRAY 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 foodprint: 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 thesis, Middlebury College.