Michael J Koontz

NSF Graduate Research Fellow mikoontz@gmail.com Phone: 410.370.1815 Graduate Group in Ecology University of California, Davis Davis, CA 95616

www.michaeljkoontz.weebly.com

EDUCATION

PhD, Ecology (expected 2019)

University of California, Davis

Committee: Andrew Latimer, Malcolm North, Connie Millar

Dissertation: Effect of spatial patterns of vegetation on Sierra Nevada forest resilience to

wildfire and bark beetle disturbance

MSc, Ecology (2014)

Colorado State University

Committee: Ruth Hufbauer, Tom Hobbs, Brett Melbourne

Thesis: Eco-evolutionary consequences of multiple introductions for colonizing individuals

BSc with highest honors, Biology (2009)

University of Hawaii at Hilo

Concentration: Ecology, Evolution, and Conservation Biology

FELLOWSHIPS

Plant Sciences Departmental Graduate Student Research Award (\$185,803)	2015 - 2019
UC Davis Graduate Group in Ecology Fellowship (\$58,172)	2014 - 2016
NSF Graduate Research Fellowship (\$132,000)	2013 - 2018
Colorado State University Graduate Fellowship (\$1,500)	2012
CSU Programs for Research and Scholarly Excellence Fellowship (\$2,339)	2012

PUBLICATIONS

- Oldfather, MF, M Britton, P Papper, **MJ Koontz**, M Halbur, C Dodge, A Flint, L Flint, and D Ackerly. 2016. Effects of topoclimatic complexity on the composition of woody plant communities. AoB Plants. Advance Access.
- Hufbauer, RA, M Szucs, E Kasyon, C Youngberg, MJ Koontz, C Richards, T Tuff, BA Melbourne. 2015. Reply to Wootton and Pfister: The search for general context should include synthesis with laboratory model systems. Proceedings of the National Academy of Sciences. 112(44):E5904.
- Hufbauer, RA, M Szucs, E Kasyon, C Youngberg, **MJ Koontz**, C Richards, T Tuff, BA Melbourne. 2015. Three types of rescue can avert extinction in a changing environment. Proceedings of the National Academy of Sciences. 112(33):10557-10562.
- Cole, RJ, CM Litton, **MJ Koontz**, and RK Loh. 2012. Vegetation recovery 16 years after feral pig removal from a wet Hawaiian forest. Biotropica 44:463-471.

TEACHING EXPERIENCE

Instructor: ECOL592 Introduction to R, Colorado State University, 2014

Teaching assistant: R Bootcamp, University of California, Davis, 2015

LIFE320 Ecology, Colorado State University, 2013

LIFE102 Biology Laboratory, Colorado State University, 2012

Guest lecturer: D-RUG Meeting, "High quality plots using base R graphics" Davis, 2015

LIFE320 Ecology, "Invasion Biology" Colorado State University, 2013

Formal training: Educational psychology & instructional design, Software Carpentry, 2016

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AWARDS AND HONORS

College of Agriculture Ag Day Scholarship (\$1,000)	2014
Front Range Student Ecology Symposium 3rd Place Oral Presentation	2014
Colorado State Graduate Degree Program in Ecology Travel Award (\$500)	2014
Ynez Morey and Chuck Reagin Memorial Entomology Scholarship (\$1,000)	2013
University of Hawaii at Hilo Outstanding Senior in Biology	2009
Hawaii Audubon Society Rose Shuster Taylor Scholarship (\$1,838)	2008
AmeriCorps Education Award (\$4,750)	2006

ORAL PRESENTATIONS

Koontz, **MJ**. 2014. The eco-evolutionary consequences of multiple introductions for colonizing individuals. BSPM Departmental Seminar & Thesis Defense. Fort Collins, CO.

Koontz, MJ and RA Hufbauer. 2014. The consequences of multiple introductions for colonizing individuals. Ecological Society of America Annual Meeting. Sacramento, CA.

Koontz, MJ and RA Hufbauer. 2014. Parsing propagule pressure: The role of multiple introductions in the colonization of novel habitats. Front Range Student Ecology Symposium. Fort Collins, CO.

PROFESSIONAL EXPERIENCE

Research Technician, Apr. 2012 to Aug. 2012	Lara Kueppers
Tree seedling demography, climate change	University of California, Merced
Research Technician, Apr. 2011 to Jun. 2011	Rebecca Cole
$Tropical\ forest\ succession,\ biogeochemistry$	University of Colorado, Boulder
Research Technician, Nov. 2009 to Jan. 2011	Creighton Litton/Christian Giardina
Forest carbon cycling, global change	${\it University~of~Hawaii,~Manoa/USDA~FS}$
Research Technician, Jun. 2009 to Nov. 2009	Patrick Hart
$Tropical\ forest\ demography$	University of Hawaii at Hilo
Field Leader, May 2007 to Aug. 2007	Rhonda Loh
$Sea\ turtle\ behavior/conservation$	National Park Service

SKILLS

Technical: R, Google Earth Engine, LATEX, Bayesian inference using MCMC methods Field: Vegetation plot establishment/sampling, LiCOR soil respiration, ECH20 soil moisture Lab: DNA extraction, PCR, gel electrophoresis, rearing of Tribolium populations

UNDERGRADUATE MENTORING

Charlotte Hoover (Watershed Science major)	Feb. 2013 to Aug. 2014
Kaitlyn Adkins (Biology major)	Sep. 2013 to Aug. 2014
Jenny Rickford (Environmental Engineering major)	Feb. 2014 to Apr. 2014

CURRENT COLLABORATIONS

Michael Koontz¹, Meagan Oldfather², Brett Melbourne³, and Ruth Hufbauer⁴ Parsing propagate pressure: Simulated and experimental disentanglement of introduction size and number of introductions

 $^1{\rm University}$ of California, Davis, $^2{\rm University}$ of California, Berkeley, $^3{\rm University}$ of Colorado, Boulder, $^4{\rm Colorado}$ State University

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Jens Stevens¹, **Michael Koontz**¹, and Chhaya Werner¹ Local effects of aspect on vegetation productivity in California.

¹University of California, Davis

Michael Koontz¹ and Ruth Hufbauer² Several, small introductions of individuals to a novel environment facilitate adaptation by mitigating genetic load

¹University of California, Davis, ²Colorado State University

Mason Earles¹, Derek Young¹, Jens Stevens¹, Andrew Latimer¹, **Michael Koontz**¹, and Malcolm North^{1,2} Effect of severe drought on tree water relations and carbohydrate storage.

¹University of California, Davis, ²USDA Forest Service

Michael Koontz¹, Lauren Nichols¹, Jackie Fitzgerald¹, Marina LaForgia², and Robert Dunn¹ Responses of seedlings and seed banks to simulated warming in a temperate forest.

¹North Carolina State University, ²University of California, Davis

VOLUNTEER/INTERNSHIP EXPERIENCE

Global Observation Research Initiative in Alpine Areas Volunteer Death Valley National Park, Death Valley, CA White Mountains Wilderness, CA	May 2013 & July 2015
Volunteer Wildland Firefighter Hawaii Volcanoes National Park, Volcano, HI	Dec. 2009 to Jan. 2011
Native Plant Nursery Internship Environmental Concern Inc., St. Michaels, MD	May 2008 to Aug. 2008
AmeriCorps Conservation Forestry Internship State of Hawaii Natural Area Reserve System, Maui, HI	Jan. 2006 to Dec. 2006
Hawksbill Sea Turtle Project Volunteer Hawaii Volcanoes National Park, Volcano, HI	Sep. 2005 to Dec. 2005

PROFESSIONAL MEETINGS ATTENDED

Ecological Society of America 99th Annual Meeting, Sacramento, CA	2014
Front Range Student Ecology Symposium, Fort Collins, CO	2014
Rocky Mountain Ecologists and Evolutionary Biologists Meeting, Nederland, CO	2012
Conservation Genomics Meeting, Hilo, HI	2010
Hawaii Ecosystems Meeting, Hilo, HI	2010
Hawaii Conservation Conference, Honolulu, HI	2009
Hawaii Ecosystems Meeting, Hilo, HI	2009
Hawaii Conservation Conference, Honolulu, HI	2006

PROFESSIONAL MEMBERSHIPS

Ecological Society of America	2014 to 2016
Northern California Botanists	2016

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