

Michael J Koontz

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Graduate Group in Ecology
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EDUCATION

PhD, Ecology (expected 2019) University of California, Davis

Co-advisors: Andrew Latimer and Malcolm North

Dissertation: Spatial structure of California forests and effects on resilience to wildfire and bark beetle disturbance

MSc, Ecology (2014) Colorado State University

Committee: Ruth Hufbauer, Tom Hobbs, Brett Melbourne

Thesis: The ecological and 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

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

PUBLICATIONS

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.

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

TEACHING EXPERIENCE

Instructor: ECOL592 Seminar, “Introduction to R” Colorado State University, 2014

Teaching assistant: LIFE320 Ecology, Colorado State University, 2013
LIFE102 Biology Laboratory, Colorado State University, 2012

Guest lecturer: LIFE320 Ecology, “Invasion Biology” Colorado State University, 2013

SKILLS

Technical: R, Google Earth Engine, L^AT_EX, 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

Jens Stevens¹ and Chhaya Werner¹ *Broad-scale analysis of local-scale effects of aspect on vegetation productivity.*
¹University of California, Davis

Mason Earles¹, Derek Young¹, Jens Stevens¹, Andrew Latimer¹, and Malcolm North^{1,2} *Effect of severe drought on tree water relations and carbohydrate storage.*
¹University of California, Davis, ²USDA Forest Service

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

Lara Kueppers¹, Cristina Castanha², Andrew Moyes¹, Erin Conlisk³, and Meagan Oldfather³ *Responses of subalpine tree seedlings to warming within and above their altitudinal range.*
¹University of California, Merced; ²Lawrence Berkeley National Laboratory; ³University of California, Berkeley

VOLUNTEER/INTERNSHIP EXPERIENCE

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

PROFESSIONAL MEETINGS ATTENDED

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

PROFESSIONAL MEMBERSHIPS

Ecological Society of America	2014 to 2015
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