# Michael J Koontz

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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

2009

2008

2006

Concentration: Ecology, Evolution, and Conservation Biology

University of Hawaii at Hilo Outstanding Senior in Biology

Hawaii Audubon Society Rose Shuster Taylor Scholarship (\$1,838)

#### **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

## **PUBLICATIONS**

AmeriCorps Education Award (\$4,750)

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.

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#### 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

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 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

Sea turtle behavior/conservation

Rhonda Loh
National Park Service

#### 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

## **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

Sep. 2014 to Apr. 2014

## CURRENT COLLABORATIONS

Jens Stevens<sup>1</sup> and Chhaya Werner<sup>1</sup> Broad-scale analysis of local-scale effects of aspect on vegetation productivity.

<sup>1</sup>University of California, Davis

Mason Earles<sup>1</sup>, Derek Young<sup>1</sup>, Jens Stevens<sup>1</sup>, Andrew Latimer<sup>1</sup>, and Malcolm North<sup>1,2</sup> Effect of severe drought on tree water relations and carbohydrate storage.

<sup>1</sup>University of California, Davis, <sup>2</sup>USDA Forest Service

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 $\label{eq:lauren} Lauren\ Nichols^1,\ Jackie\ Fitzgerald^1,\ Marina\ LaForgia^2,\ and\ Robert\ Dunn^1\ Responses\ of\ seedlings$  and seed banks to simulated warming in a temperate forest.

<sup>1</sup>North Carolina State University, <sup>2</sup>University of California, Davis

Lara Kueppers<sup>1</sup>, Cristina Castanha<sup>2</sup>, Andrew Moyes<sup>1</sup>, Erin Conlisk<sup>3</sup>, and Meagan Oldfather<sup>3</sup>
Responses of subalpine tree seedlings to warming within and above their altitudinal range.

<sup>1</sup>University of California, Merced; <sup>2</sup>Lawrence Berkeley National Laboratory; <sup>3</sup>University of California, Berkeley

## 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 2015

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