

Eric LoPresti

380 Briggs Hall, UC-Davis, Davis, CA 95616
LoPresti.Eric@gmail.com, (508) 463-5131
www.ericflopresti.com

CURRENT APPOINTMENT

Postdoctoral researcher, Michigan State University, Dr. Marjorie Weber, adviser

EDUCATIONAL EXPERIENCE

PhD: UC Davis (9/2012–8/2017), Dr. Rick Karban, adviser
B.Sc., *honors*: Brown University (2006-2010), Drs. Douglass Morse & Christine Janis, advisers

REFEREED PUBLICATIONS

In press:

(21) LoPresti, EF; Grof-Tisza, P.*; Robinson, M.*; Godfrey, J.* & R. Karban. Ingestion of sand by a caterpillar: quantification and consequences. *Ecological Entomology*

2017:

(20) LoPresti, EF & Morse, DH. (2017). A parasitoid's odd pupal vigil. *Ecology*. 98: 1722-1723

(19) LoPresti, EF. (2017). Artificial rainfall increases herbivory on an externally-defended forb. *Arthropod-plant Interactions*. early view (6/2017)

(18) LoPresti, EF. (2017). Columbine pollination success not determined by a proteinaceous reward to hummingbird pollinators. *Journal of Pollination Ecology*. 20: 35-39

(17) Eiseman, CS‡; Feldman, TS; LoPresti, E.F. & MW Palmer. (2017). First North American records of *Porphyrosela minuta* Clarke (Lepidoptera: Gracillariidae), with notes on its native congener, *P. desmodiella* (Clemens). *Proceedings of the Entomological Society of Washington*. 119: 18-23

(16) Grof-Tisza, P.*; LoPresti, EF; SK Heath* and R Karban. (2017). Plant structural complexity and mechanical defense mediate predator-prey interactions. *Ecology and Evolution*. doi: 10.1002/ece3.2705

(15) LoPresti, EF & K Toll*. (2017). The three criteria for resistance by carrion provisioning; insect entrapment and predator enrichment on *Mimulus bolanderi*. *Ecological Entomology*. 42: 230-234

2016:

(14) LoPresti, EF and R. Karban. (2016) Chewing sandpaper: grit, plant apparency and plant defense in sand-entrapping plants. *Ecology*. 97: 826-833

(13) LoPresti, EF and MG Weber. (2016) Breaking barriers in evolutionary biology: a pioneering woman in science and her early theory of plant chemical macroevolution. *The American Naturalist*. 188: 2-4.

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(12) McKenna-Foster, A‡; Perrotti, L‡; Blyth, J‡., EF LoPresti and R. Kennedy. (2016) Measuring success of a reintroduced population of the American burying beetle (*Nicrophorus americanus* Oliver) to Nantucket Island, MA. *Journal of Insect Conservation* 20:895-904

(11) LoPresti, EF. (2016) Chemicals on plant surfaces are a heretofore unrecognized, but ecologically-informative, class for investigations into plant defense. *Biological Reviews*. 91: 1102-1117
doi: 10.1111/brv.12212

(10) LoPresti, EF; Karban, R; Robinson, ML*; Grof-Tisza, P*. and WC Wetzel. (2016) The natural history supplement; furthering natural history study amongst ecologists and evolutionary biologists. *Bulletin of the Ecological Society of America*. 97: 305-310

2015:

(9) LoPresti, EF; Pearse, IS & Charles, GK*. (2015) The siren song of a sticky plant: columbines provision mutualistic arthropods by attracting and killing passerby insects. *Ecology*.96: 2862-2869

(8) Gidmark, NJ; Taylor, C‡; LoPresti, EF & Brainerd, E. (2015) Functional morphology of durophagy in Black Carp, *Mylopharyngodon piceus*. *Journal of Morphology*. 276: 1422-1432

(7) LoPresti, EF; Warren, AW; Stichter, SB‡ & Eastwood, R. (2015) A review of the historical occurrence of *Hesperia attalus* in New England. *Journal of Research on the Lepidoptera*. 48: 9-12

2014:

(6) LoPresti, EF. (2014) Chenopod salt bladders deter insect herbivores. *Oecologia*. 174: 921-930 doi: 10.1007/s00442-013-2827-0

(5) LoPresti, EF & Angulo F‡ (2014) New bird distribution records for Lambayeque, Peru: *Nomonyx dominicus* (Linnaeus 1766) (Aves: Anatidae) and *Incaspiza pulchra* (Sclater, 1886) (Aves: Emberizidae). *Checklist* 10: 618-620

2013:

(4) LoPresti, EF & Morse, DH. (2013) Costly leaf shelters protect moth pupae from parasitoids. *Arthropod-plant Interactions*. 7:445-453

(3) Gidmark, NJ; Konow, N; LoPresti, EF & Brainerd, EL. (2013) Bite force is limited by the length-tension relationship of muscles in the durophagous black carp, *Mylopharyngodon piceus*. *Biology Letters*. doi: 10.1098/rsbl.2012.1181

(2) Celis-Diez, JL; Ippi, S; LoPresti, EF, Salinas D; Diaz, IA & Willson, M.F. 2012. Presencia y nidificación de la tenca (*Mimus thenca*) en el norte de la isla de Chiloe. *Revista La Chiricoca* (Chilean Journal of Ornithology). 14:15-17

2012:

(1) Stager, M*; LoPresti, EF; Angulo F‡; Ardia DR; Caraces-Apaza D*; Cooper CB; Molina J*; Taylor N & Winkler DW. (2012) Reproductive biology of a narrowly endemic *Tachycineta* swallow in dry, seasonal forest in coastal Peru. *Ornitologia Neotropical*: 23:1 95-112

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In revision:

LoPresti, EF; Krimmel, BA* & IS Pearse. Entrapped carrion increases indirect plant resistance and intra-guild predation on a sticky tarweed.

LoPresti, EF. Polyphagy by omnivory: scavenging expands host range of a polyphagous caterpillar.

In review:

LoPresti, EF & BA Krimmel*. The damage control hypothesis: plant resource provisioning to non-mutualists ameliorates herbivore damage.

In prep, nearing submission (manuscripts available upon request)

LoPresti, EF; Van Wyk, JI*; Mola, JM*; Toll, K*; Miller TE* & NM Williams. Wildfire lowers outcrossing in an annual mint through altered pollinator communities and changes in plant morphology

*graduate student collaborator; †undergraduate collaborator; ‡amateur naturalist (nonacademic)

TEACHING/MENTORING EXPERIENCE

Teaching assistantships:

Vertebrate evolution, 2008, Dr. Christine Janis, Brown University

Animal behavior, 2009, Dr. Jonathan Waage, Brown University

Introduction to Ecology and Evolution, 2013, Dr. David Spiller, UC-Davis

Introduction to Ecology and Evolution, 2014, Dr. Jason Baumsteiger, UC-Davis

Terrestrial Field Ecology, 2016 & 2017, Dr. Richard Karban, UC-Davis

Insect Ecology, 2016, Dr. Louie Yang, UC-Davis

Other:

2013, 2015: Grant-writing workshop co-leader, UC Davis

Students mentored:

2014: Jacob Ewald, capstone project in animal sciences. "Do cowbirds match host egg shape?"

2015: Karissa Merritt, undergraduate research project. "Investigating emergence of dioecy in *Trichostema laxum*"

2017: Jake Goidell, Davis high school student, columbine pollination mechanics.

PROFESSIONAL DEVELOPMENT

2011: "Curso ecologia de bosques" (Forest Ecology) Drs. Juan Armesto, Juan Celis-Diez & David Wardle. Universidad Pontificia Catolica, Santiago, Chile, at Senda Darwin field station, Chiloe Island.

2013: "Phylogenetically corrected statistics" Dr. Luke Mahler. UC Davis

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PRESENTATIONS

Meetings/conferences:

Society for Integrative and Comparative Biology, 2011 (poster)
Neotropical Ornithology Congress, 2011
Ecological Society of America, 2014, 2017
Entomological Society of America, 2017

Invited lectures (academic, public & classroom):

2017: "Integrating predator behavior into sticky plant indirect defense, testing theoretical predictions" Entomological Society of America Meeting special symposium on Indirect Defense
2016: "Plant external defenses" Duke University Population Biology
2015: "Siren song of a columbine" Davis Botanical Society
2013: "Insect reintroduction projects" UC Davis, EVE 198 (conservation seminar)

FELLOWSHIPS, AWARDS & GRANTS

Awards

2010, James F. Kidwell prize in genetics and population biology, Brown University
2010, election to Sigma Xi

Fellowships

2013-2017, NSF Graduate Research Fellow (~\$130,000)
2017-2019, NSF PRFB postdoctoral fellowship in biological collections (~\$138,000)

Research grants

2009: \$3,000 UTRA undergraduate research award, Brown University
2011: \$500 Blyth, J & LoPresti, E. Nantucket Biodiversity Initiative annual research grant.
2013: \$2,330 Jastro Research Award, UC Davis
2013: \$1,500 Center for Population Biology, Hardman Native Plant Award, UC Davis
2014: \$2,710 Jastro Research Award, UC Davis
2014: \$1,500 Davis Botanical Society Student Award
2015: \$2,992 Mildred Mathias Research Award, University of California Natural Reserve System
2016: \$2,100 Jastro Research Award, UC Davis
2016: \$1,219 Center for Population Biology, Hardman Native Plant Award, UC Davis
2017: \$956 Valentine Reserve Graduate Student Research Award, UC Santa Barbara
2017: \$30,000 PRFB Biological Collections research allowance (with fellowship), NSF

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SERVICE

Student board representative (2016-2017): Davis Botanical Society

Seminar organizer (2015-2016): Graduate Group in Ecology

Reviewer: *Flora*, *Hydrobiologia*, *Journal of Insect Behavior*, *Oecologia*, *Proceedings of the Royal Society: B*

PROFESSIONAL AFFILIATIONS

Ecological Society of America, American Botanical Society, Entomological Society of America

PRESS & OUTREACH

Press

Siren song of a sticky plant (Ecology, 2015): covered by *Discover*, *Smithsonian*, *Science*, IFL Science.

Chewing sandpaper (Ecology, 2016): covered by *Discover*, *Science*, *Quirks and Quarks* (Canadian Public Radio), *Newsweek*, *Cricket* (science magazine for 3-6 year olds!)

Blog

Natural Musings (naturalmusings.blogspot.com): my ecology/natural history blog. >40,000 page views (5/2017)

Non-refereed articles:

LoPresti, EF. Nantucket Butterflies: past and present. *Massachusetts Butterflies*. 37: Fall 2011

LoPresti, EF; Mckenna-Foster, AM; Perrotti, L & Blyth, J. American burying beetle (*Nicrophorus americanus*) survey on Nantucket, 2011. Report to US Fish & Wildlife Service, November, 2011.

LoPresti, EF. *Trichostema laxum*. California Native Plant Society Bulletin. April, 2016.

Lopresti, EF. California's bounty of sticky, oily, slimy, and otherwise interesting plants. *Lasthenia*. 46: 4.

Photo contributions:

Odonates of Brazil (Guillermo, R), Butterflies of America (butterfliesofamerica.com), Saturniidae of the World (<http://www.silkmoths.bizland.com/indexos.htm>), *Ecology*, *Ecological Entomology*, *Oecologia*, *Frontiers in Ecology and Evolution*, *La Chiricoca*, *Cotinga*, *Massachusetts Butterflies*, *Bird Observer*

NATURAL HISTORY SPECIMENS

UC-Davis herbarium: voucher specimens for McLaughlin Reserve, *Trichostema laxum* populations across its range, *Abronia* spp. and other assorted interesting plants.

Maria Mitchell Association: voucher specimens of Odonata and Orthoptera for comparison to 1920's and 30's collections

McGuire Center for Lepidoptera, University of Florida: specimens of central Chilean Hesperiiidae.

Dennis Paulson, University of Puget Sound: Chilean odonate specimens

Charley Eisemann collection, archived in various institutions: leaf miner specimens

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ACADEMIC REFERENCES

Dr. Richard Karban
UC-Davis
Dissertation major professor
rkarban@ucdavis.edu

Dr. Louie Yang
UC-Davis
Dissertation committee member
lhyang@ucdavis.edu

Dr. Jay Rosenheim
UC-Davis
Dissertation committee member
jarosenheim@ucdavis.edu

Dr. Marjorie Weber
Michigan State University
Post-doctoral studies adviser
marjorie.gail@gmail.com

Dr. Douglass Morse
Brown University (emeritus)
Undergraduate research adviser
d_morse@brown.edu

Dr. Christine Janis
Brown University (emeritus)
Undergraduate research adviser
christine_janis@brown.edu