

# Julian Resasco

## CV

Department of Ecology and Evolutionary Biology (EBIO)

University of Colorado

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<https://www.colorado.edu/lab/resasco/>

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### APPOINTMENTS AND DEGREES

Assistant Professor	University of Colorado, EBIO (2019 - present)
Chancellor's Postdoctoral Fellow	University of Colorado, EBIO (2017-2019)
NSF Postdoctoral Fellow	University of Colorado, EBIO (2013-2017)
PhD	Biology, University of Florida (2007-2013)
BS	Zoology, University of Oklahoma (2002-2006)

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### RESEARCH INTERESTS

Corridors, landscape connectivity, habitat fragmentation, ecological networks, plant-pollinator interactions, ants, entomology, invasion biology, climate change ecology, stable isotope ecology, landscape ecology, community ecology, ecosystem ecology, evolutionary ecology, ecosystem functions and services, metacommunities, conservation biology

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### FUNDING AND HONORS

#### Grants:

2020	<b>National Science Foundation:</b> DEB – Examining changes in plants, pollinators, and their interactions across a century (pending)
2019	<b>National Science Foundation:</b> Long Term Research in Environmental Biology (LTREB) - Understanding the strength, duration, and stability of connectivity effects on community diversity (5-year renewal; PIs E.I. Damschen, L. A. Brudvig, and N.M. Haddad; J. Resasco as senior personnel)  <b>National Geographic:</b> Explorer Grant: Consequences of a century of global change on a plant-pollinator interactions (additional PI: Diego Vázquez)
2018	<b>National Science Foundation:</b> Research experience for undergraduates (\$7000, additional PIs Nick Haddad and Melissa Burt)
2017	<b>National Science Foundation:</b> Research experience for undergraduates (\$7000, additional PIs Nick Haddad and Melissa Burt)
2016	<b>National Science Foundation:</b> Research experience for undergraduates (\$7000, additional PIs Nick Haddad and Melissa Burt)
2008	<b>National Science Foundation:</b> Research experience for undergraduates (\$7000, additional PI: Doug Levey)

## Awards and Fellowships

- 2016 University of Colorado: Chancellor's Postdoctoral Fellowship (2 years postdoctoral support)
- 2013 University of Florida: Delores Auzenne Dissertation Award (\$15,000 graduate support)
- 2013 **National Science Foundation:** Postdoctoral Research Fellowship in Biology - *A large-scale, experimental test of how habitat fragmentation affects trophic structure, species niches, and extinction risk* (DBI: 1309192, 4 yrs. support, \$276,000, PI)
- 2009 **National Science Foundation:** GK-12 Fellowship (1 yr. graduate support, \$30,000)
- 2008 **National Science Foundation:** Graduate Research Fellowship (3 yrs. support, \$108,000)
- 2007 **National Science Foundation:** South East Alliance for Graduate Education and the Professoriate (SEAGEP) Fellowship (1 yr. graduate support, \$20,000)

## Internal/small grants:

- 2019 CU UROP Team Grant (\$3000)
- 2017 ESA SEEDS Minority Ecologist Forum Travel Award (\$1000)
- 2017 CU Implementation of Multicultural Perspectives and Approaches in Research and Teaching (IMPART) Awards - *Diversity and Inclusion Training for Introductory Biology Undergraduate Teaching Assistants* (with Scott Taylor, Mallory Choudoir, Kendi Davies; \$4000)
- 2016 Ecological Society of America Early-Career Section planning grant (\$5000)
- 2016 CU UROP Team Grant (\$3000; with Kendi Davies)
- 2015 CU Undergraduate Research Opportunities Program (UROP; \$2000)
- 2015 CU UROP Team Grant (\$3000)
- 2014 Gordon Conference Travel Grant (\$1000)
- 2012 UF Biology travel award (\$450)
- 2012 CLAS travel award (\$300)
- 2011 Riewald and Olowo Memorial Fund Research Grant (\$300)
- 2010 NSF QSE3 IGERT Research Grant (\$500)
- 2009 UF Graduate Student Council travel awards (\$1200)
- 2007 REU Travel award (\$1000)

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## PEER REVIEWED PUBLICATIONS

1. Damschen EI, Brudvig LA, Burt MA, Fletcher RJ Jr., Haddad NM, Levey DJ, Orrock JL, **Resasco J**, and Tewksbury JJ (2019). Ongoing accumulation of plant diversity through habitat connectivity in an 18-year experiment. *Science* 365(6460):1478-1480.
2. **Resasco J** (2019). Meta-analysis on a decade of testing corridor efficacy: what new have we learned? *Current Landscape Ecology Reports* 4(3): 61-69.

3. **Resasco J**, Bitters ME, Cunningham SA, Jones HI, McKenzie VJ, and Davies KF (2019). Experimental habitat fragmentation disrupts nematode infections in Australian skinks. *Ecology*. 100(1): e02547.
4. **Resasco J**, Tuff KT, Cunningham SA, Melbourne BA, Hicks AL, Newsome SD, and Davies KF (2018). Generalist predator's niche shifts reveal ecosystem changes in an experimentally fragmented landscape. *Ecography*. 41(7):1209-1219.
5. Chacoff NP, **Resasco J**, and Vázquez DP (2018). Interaction frequency, network position, and the temporal persistence of interactions in a plant-pollinator network. *Ecology*. 99(1): 21–28.
6. Gibb H, Dunn R, Sanders N, Grossman B, Photakis M, Abril S, Agosti D, Andersen A, Angulo E, Armbrecht I, Arnan X; Baccaro F, Bishop T, Boulay R, Brühl C, Castracani C, Cerdá X, Del Toro I, Delsinne T, Diaz M, Donoso D, Ellison A, Enriquez M, Fayle T, Feener Jr. D, Fisher B, Fitzpatrick M, Gómez C, Gotelli N, Gove A, Grasso D, Groc S, Guénard B, Gunawardene N, Heterick B, Hoffmann B, Milan J, Kaspari M, Klimes P, Lach L, Laeger T, Lattke J, Laurent E, Leponce M, Lessard JP, Longino J, Lucky A, Luke S, Majer J, McGlynn T, Menke S, Mezger D, Mori A, Moses J, Thinandavha Caswell M, Pacheco R, Paknia O, Pearce-Duvet J, Pfeiffer M, Philpott S, **Resasco J**, Retana J, Silva R, Sorger D, Souza J, Suarez A, Tista M, Vasconcelos H, Vonshak M, Weiser M, Yates M, and Parr C. (2017) A global database of ant species abundances. (data paper) *Ecology*. 98(3): 883–884.
7. **Resasco J**, Bruna EM, Haddad NM, Banks-Leite C, and Margules CR. (2017) The contribution of theory and experiments to conservation in fragmented landscapes. *Ecography* 40(1): 109-118.
8. Brudvig, LA, Leroux SJ, Albert CA, Bruna EM, Davies KF, Ewers RM, Levey DJ, Pardini R, and **Resasco J**. (2017) Evaluating conceptual models of landscape change. *Ecography* 40(1): 74–84.
9. Chandler JL, Orrock JL, and **Resasco J**. (2016) Invasive ants generate heterogeneity in patterns of seed survival. *American Midland Naturalist* 176(2):289-297.
10. Jones HI and **Resasco J**. (2016) A new species of *Hedruris* (Nematoda: Hedruridae), from the Australian skink *Lampropholis guichenoti* (Reptilia: Scincidae). *Comparative Parasitology* 83:173-177.
11. **Resasco J**, Haddad NM, Shoemaker DD, Orrock JL, Brudvig LA, El Damschen, Tewksbury JJ, and Levey DJ. (2014) Landscape corridors can increase invasion by an exotic species and reduce diversity of native species. *Ecology* 95:2033–2039.
12. **Resasco J**, Pelini SL, Stuble KL, NJ Sanders, RR Dunn, SE Diamond, AM Ellison, Gotelli NJ, and Levey DJ (2014). Using historical and experimental data to uncover warming temperature effects on ant assemblages. *PLoS ONE* 9(2): e88029.
13. Haddad NM, Brudvig LA, Damschen, Evans DM, Johnson BL, Levey DJ, Orrock JL, **Resasco J**, Sullivan LL, Tewksbury JJ, Wagner SA, and Weldon AJ (2014). A review of the potential negative ecological effects of landscape corridors. *Conservation Biology*

14. **Resasco J**, Porter SD, Sanders NJ, and Levey DJ (2014). Assessing the effects of sodium on fire ant foraging in the field and colony growth in the laboratory. *Ecological Entomology* 39:2 267-271.
15. **Resasco J** (2013) Field-based and hands-on ecology labs increase undergraduate interest in the natural world. *Journal of Natural History Education and Experience* 7: 22-25.
16. **Resasco J**, Levey DJ, and Damschen EI, (2012) Habitat corridors alter trophic position of fire ants. *Ecosphere* 3, art. 11.
17. Callis KL, Christ LR, **Resasco J**, Armitage DW, Ash JD, Caughlin TT, Clemmensen SF, Copeland SM, Fullman TJ, Lynch RL, Olson C, Pruner RA, Vieira-Neto EHM, West-Singh R, and Bruna EM. (2009) Improving Wikipedia: educational opportunity and professional responsibility. *Trends in Ecology and Evolution* 24: 177-179.
18. **Resasco J**, Hale AM, Henry MC, and Gorchov DL (2007) Detecting an invasive shrub in forest understory using remote sensing. *International Journal of Remote Sensing*. 28:3739–3745.

*Submitted manuscripts*

1. Prinster AJ, **Resasco J**, and CR Nufio. Weather variation affects the dispersal of grasshoppers beyond their elevational ranges. in revision at *Oikos*.
2. Schwarz B, Vázquez DP, CaraDonna PJ, Knight TM, Benadi G, Dormann CF, Gauzens B, Motivans E, **Resasco J**, Blüthgen N, Burkle LA, Fang Q, Kaiser-Bunbury CN, Alarcón R, Bain JA, Chacoff NP, Huang S-Q, LeBuhn G, MacLeod M, Petanidou T, Rasmussen C, Simanonok MP, Thompson AH, and Fründ J. Temporal scale-dependence of plant-pollinator networks. in review at *Oikos*.

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## PRESENTATIONS

### Invited seminars:

- 2020 University of Wyoming, Department of Botany (*upcoming*)  
University of Illinois, Urbana-Champaign, Department of Entomology (*upcoming*)  
Northwestern University/ Chicago Botanic Garden, Plant Biology and Conservation
- 2019 University of Denver, Department of Biological Sciences  
Miami University, Department of Biology (REU invited scientist)  
University of Colorado, Mountain Research Station
- 2018 University of Colorado, Department of Ecology and Evolutionary Biology
- 2017 Freiburg Institute for Advanced Studies (FRIAS), Freiburg, Germany (working group)
- 2016 University of Michigan, Department of Ecology and Evolutionary Biology  
University of Colorado Mountain Research Station (REU program)
- 2015 University of Oklahoma, Department of Biology  
University of Rhode Island, Department of Biological Sciences
- 2014 CNRS – Station d'Ecologie Théorique et Expérimentale, Moulis, France (working group)
- 2011 CONICET – IADIZA, Mendoza, Argentina (*in Spanish*)

### Conference presentations:

- 2018 Ecological Society of America, New Orleans, LA\*  
Reunión Argentina de Ecología, Mar del Plata, Argentina (*in Spanish*) ‡
- 2017 Guild of Rocky Mountain Ecologists and Evolutionary Biologists, MRS, CO\*  
Ecological Society of America, Portland, OR\*, ‡
- 2016 Guild of Rocky Mountain Ecologists and Evolutionary Biologists, RMBL, CO\*  
Ecological Society of America, Fort Lauderdale, FL\*  
International Congress of Entomology, Orlando, FL ‡
- 2015 Ecological Society of America, Baltimore, MD†
- 2014 Gordon Research Conference on Predator Prey Interactions, Ventura, CA†  
Ecological Society of America, Sacramento, CA†
- 2013 Ecological Society of America, Minneapolis, MN†
- 2012 Entomological Society of America, Knoxville, TN\*  
Ecological Society of America, Portland, OR\*
- 2011 Ecological Society of America, Austin, TX\*
- 2010 Ecological Society of America, Pittsburgh, PA†  
NSF GK-12 Annual Conference, Washington DC†
- 2009 Southeastern Ecology and Evolution Conference, Gainesville, FL†
- 2007 Ecological Society of America, San Jose, CA†
- \* Contributed Talk, † Poster, ‡ Symposium/organized session

#### Short courses/ working groups/ workshops:

- 2018 NextProf Science, University of Michigan, USA
- 2017 Temporal Scale in Mutualistic Networks working group, Freiburg Institute for Advanced Studies (FRIAS), Germany
- 2014 Theory and experiments in habitat fragmentation working group, CNRS, Moulis, France
- 2013 Stable Isotopes in Ecology and Biogeochemistry, University of Utah, USA
- 2011 Visiting scholar Diego Vázquez lab, CONICET, Mendoza, Argentina
- 2011 Advanced Science School on Ecological Networks, Brazil
- 2011 Conservation & Restoration Genetics, OTS, Costa Rica
- 2010 Ant Course (Cal. Acad. of Science), Sabah (Borneo), Malaysia
- 2006 REU - Miami University (advisor Mary Henry)

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## TEACHING

### Instructor:

- University of Colorado, **Spatial Ecology** (Spring 2020)
- University of Colorado, **Principles of Landscape Ecology** (Fall 2018, 2019) co-taught with Carol Wessman
- University of Colorado, **Diversity and Inclusion in STEM** (Spring 2017 and 2018, Fall 2017). co-taught with Scott Taylor, Kendi Davies, and Mallory Choudoir (Spring 2017) co-taught with Mallory Choudoir (Fall 2017, Spring 2018)
- University of Colorado, **Graduate Seminar in Population Biology** (Fall 2015). co-taught with Kendi Davies and Caroline Tucker
- University of Colorado, **General Biology**, Population ecology module – three classes, four sections (200-300 students per section; Spring 2014, 2015, 2016, 2017). Developed material and taught using active-learning techniques (e.g., think-pair-share, small group discussion, problem solving with data)

### Guest Lecturer:

- University of Colorado, *Energy Flow in Ecosystems. Principles of Ecology* (Fall 2016).

- University of Colorado, *Spatial point pattern analysis*. **Quantitative Biology Seminar** (Spring 2015).
- University of Florida, *Experimental design and data analysis*. **STEM Research Methods** (Spring 2013)
- University of Florida, *Landscape corridors*. **Quantitative Wildlife Ecology** (Fall 2012).
- University of Florida, *Interaction networks*, **Community Ecology** (Fall 2011).

#### Teaching Assistant:

- University of Florida, **General Ecology Lab** (2011-12).
- University of Florida, **Natural Areas Teaching Lab** (2008)
- University of Florida, **Biological Sciences Lab** (2007)

#### NSF GK-12 fellow:

- University of Florida and Lincoln Middle School, **Life Science** (2008-10)

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### MENTORING

#### Trainees:

- **While at University of Colorado**
  - Jacob Unger (2019 student research technician)
  - Andrew Gaier (2019 student research technician)
  - Emily Joy (2018; Undergraduate Research Opportunity Program at Mountain Research Station)
  - Michelle Kirchner (2018; NSF-REU at Savannah River Site; undergraduate student at NCSU; co-supervised with Nick Haddad and Melissa Burt)
  - Elise Hanson (2018; research technician at Savannah River Site; co-supervised with Nick Haddad and Melissa Burt)
  - Manuela Mejia (2016 - 2017; Undergraduate Research Opportunity Program; undergraduate student at CU-Boulder; co-supervised with Kendi Davies)
  - Michaela Trainer (2016 - 2017; Undergraduate Research Opportunity Program; undergraduate student at CU-Boulder; co-supervised with Kendi Davies)
  - Claire Turkal (2017 - present; NSF-REU at Savannah River Site; undergraduate student at NCSU; co-supervised with Nick Haddad and Melissa Burt)
  - Samantha Scerlek (2017; NSF-REU at CU Mountain Research Station; undergraduate student at John Carroll University)
  - Hector Castillo (2016; NSF-REU at CU Mountain Research Station; undergraduate student at University of Utah)
  - De'Aja Sanders (2016 - present; NSF-REU at Savannah River Site; undergraduate student at NCSU; co-supervised with Nick Haddad and Melissa Burt)
  - Spencer Holtz (2015 - 2017; NSF-REU; undergraduate student at CU-Boulder; co-supervised with Kendi Davies)
  - Paulina Arcuri (2015 - 2017; NSF-REU; undergraduate student at CU-Boulder; co-supervised with Kendi Davies)
  - Tyrha Delger (2015 - 16; Undergraduate Research Opportunity Program at Mountain Research Station; now MS student at University of San Francisco)
  - Matt Bitters (2015 - present; PhD student CU-Boulder; co-supervised with Kendi Davies)
  - Jasimine Vidrio (2015; undergraduate student at CU-Boulder; co-supervised with Kendi Davies)

- Tai Kondo (2015 - 2016; Undergraduate Research Opportunity Program; undergraduate student at CU-Boulder)
- Audrey Oweimrin (2015; Undergraduate Research Opportunity Program; undergraduate student at CU-Boulder)
- Rachel Ridgen (2015 - present; Undergraduate Research Opportunity Program; NSF-REU co-supervised with Kendi Davies; undergraduate student at CU-Boulder)
- **While at University of Florida**
  - Hannah Penn (2007-11; Undergraduate Research Assist. Program; then PhD student at University of Kentucky on NSF-GRFP; now postdoc at Miami University)
  - Malika Jafferjee (2010-13; Undergraduate Research Assist. Program)
  - Viviana Peñuela (USDA Forest Service STEP; 2011; now at Florida Department of Environmental Protection)
  - Camille Beasley (NSF-REU; 2008-09)
  - Candice Hardwick (NSF-REU 2008)
- **Ecological Society of America SEEDS**
  - Hector Castillo (2017)
  - Mary Keilhauer (2016)
  - Eanas Alia (2015)
  - Nicole Boone (2013)

**Graduate student committees:**

University of Colorado: Travis McDevitt-Galles<sup>†</sup>, Michael Catchen<sup>\*</sup>, Grant Vagle<sup>†</sup>, Megan Zabinski<sup>\*†</sup>, Brendan Hobart<sup>†</sup>, Aislyn Keyes<sup>\*</sup>, Austin Nash<sup>\*</sup>, Jess Mullins<sup>\*</sup>

\* Masters, † PhD

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**SERVICE AND CAMPUS INVOLVMENT**

2019 - CU EBIO Diversity and Inclusion Committee  
 2019 - CU EBIO Executive Committee  
 2017-present CU-Café member (collective of diverse STEM trainees that promotes inclusivity and scientific excellence) <https://cucafeseminar.wordpress.com/our-group/>  
 2017-present SACNAS chapter founding leadership team - postdoc advisor  
 2016-2018 Office of Postdoctoral Affairs Advisory Board member  
 2016-17 CU-Boulder, EBIO, [Inclusive Excellence](#) Committee  
 2013-present Contributor to <http://www.conservationcorridor.org>  
 2009-2011 [NSF I<sup>3</sup> Graduate Student Advisory Council](#)  
 2009 University of Florida, Department of Biology Seminar Committee  
 2008 University of Florida, Department of Biology Graduate Forum Committee

**Peer review service:**

**Associate Editor:**

*Journal of Animal Ecology*: Nov. 2017 – present; submissions handled to date = 34

**Journal reviewer:** *Acta Oecologica*, *Arctic*, *Antarctic*, and *Alpine Research*, *Austral Entomology* (*Australian Journal of Entomology*), *Biological Conservation* (3), *Biological Invasions* (2), *Biology Letters*, *Biotropica*, *Conservation Letters* (2), *Current Landscape Ecology Reports*, *Current Opinion in Insect Science*, *Ecological Applications*, *Ecological Complexity*,

*Ecography, Ecology, Ecology and Evolution, Ecology Letters, Ecosphere, Estuaries and Coasts, Global Change Biology (2), Ibis, Insectes Sociaux, Journal for Nature Conservation, Journal of Arid Environments, Journal of Applied Ecology, Journal of Ecology, Journal of Insect Conservation, Journal of Natural History Education and Experience, Landscape Ecology, Myrmecological News (2), Oecologia (2), Proceedings of the Royal Society B., Scientific Reports, Springer Publishing (book chapter).*

**Funding agency reviewer:** *National Science Foundation (5 ad hoc, 2 panels).*

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## **OTHER**

### **Society Memberships:**

- Ecological Society of America
  - o Early Career Section
  - o Natural History Section
  - o Latin American Chapter
  - o Inclusive Ecology Section
- British Ecological Society
- Asociación Argentina de Ecología
- Society for Conservation Biology
- American Society of Naturalists
- Entomological Society of America
- SACNAS (Society for Advancement of Chicanos/Hispanics and Native Americans in Science)
- US-IALE (International Association for Landscape Ecology)

### **Hosted seminar speakers:**

2009	Rob Dunn (NC State)
2014	Rob Fletcher (University of Florida)
2015	Andrew Gonzalez (McGill University)
2016	Laura Burkle (Montana State University)
2017	Aaron Ellison (Harvard Forest)
2020	Emilio Bruna (University of Florida; upcoming)

### **Languages:**

Fluent in Spanish and English.

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## **OUTREACH**

2016-present **Bilingual volunteer naturalist**, City of Boulder Open Space and Mountain Parks –(lead interpretive hikes and visit classrooms to do ecology programs in Spanish and English for K-12 students).