

# Julian Resasco

CV (updated 1 December 2021)

Department of Ecology and Evolutionary Biology (EBIO)  
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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, connectivity, habitat fragmentation, ecological networks, plant-pollinator interactions, ants, entomology, invasion biology, climate change, stable isotopes, landscape ecology, community ecology, evolutionary ecology, ecosystem functions and services, metacommunities, conservation biology

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## FUNDING AND HONORS

### Grants:

- Pending*      **National Science Foundation:** DEB, CAREER: Can landscape connectivity allow populations to adapt to environmental stress? (PI: J Resasco; \$1,206,015)
- Pending*      **US Department of Agriculture:** AFRI Foundational Program: Sustainable Agroecosystems (A1451), BNRE Program. Orchards in an agroecological matrix: diversification, spillover effects, and ecosystem services (PIs K Suding, Co-PIs L Dee, L Corwin, J Resasco, S Taylor; \$649,999)
- 2021      **National Science Foundation:** DEB, REPS Supplement: Experimentally testing how heterogeneity in landscape characteristics and fire severity shape plant assemblages (PI: J Resasco; \$41,852)
- National Science Foundation:** DEB 2102974 – Understanding changes in a plant-pollinator network over a century of global change (PI: J Resasco; senior personnel: DP Vázquez; \$260,059)
- National Science Foundation:** Innovations in Graduate Education – FIRED UP: An immersive early field experience program to build community, support inclusivity, and foster large-scale research ideas (PI: VJ McKenzie; coPIs: L Corwin, NC Emery, J Resasco, SA Taylor; \$499,997)
- 2019      **National Science Foundation:** Long Term Research in Environmental Biology (LTREB) - Understanding the strength, duration, and stability of connectivity effects on community diversity (5-year renewal; PIs EI Damschen; coPIs: LA Brudvig, and NM Haddad; senior personnel: J Resasco and JL Orrock; \$352,728)
- National Geographic:** Explorer Grant: Consequences of a century of global change on a plant-pollinator interactions (PI: J Resasco; coPI: DP Vázquez; \$24,139)

### Awards and Fellowships

- 2021      **Ecological Society of America,** Early Career Fellows (2021 – 2025)
- 2016      **University of Colorado,** Chancellor's Postdoctoral Fellowship (2 yr. postdoc. support)
- Ecological Society of America:** Early Career Mentoring Program
- 2013      **University of Florida:** Delores Auzenne Dissertation Award (\$15,000)

- 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)

#### Small grants and supplements

- 2021 CU-Boulder UROP Team Grant (\$3000; with Anna Paraskevopoulos)
- 2020 National Geographic Explorer Grant Supplement (\$1000)
- 2019 CU-Boulder UROP Team Grant (\$3000)
- 2017 Ecological Society of America SEEDS Minority Ecologist Forum Travel Award (\$1000)
- 2017 CU-Boulder Implementation of Multicultural Perspectives and Approaches in Research and Teaching (IMPART) Awards - *Diversity and Inclusion Training for Introductory Biology Undergraduate Teaching Assistants* (\$4000; with Scott Taylor, Mallory Choudoir, Kendi Davies)
- 2018 NSF REU Supplement (\$7000; with Nick Haddad and Melissa Burt)
- 2017 NSF REU Supplement (\$7000; with Nick Haddad and Melissa Burt)
- 2016 NSF REU Supplement (\$7000; with Nick Haddad and Melissa Burt)
- 2016 Ecological Society of America Early-Career Section planning grant (\$5000)
- 2016 CU-Boulder UROP Team Grant (\$3000; with Kendi Davies)
- 2015 CU Undergraduate Research Opportunities Program (UROP; \$2000)
- 2015 CU-Boulder 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)
- 2008 NSF REU Supplement (\$7000, additional PIs DJ Levey)
- 2007 REU Travel award (\$1000)

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#### PEER REVIEWED PUBLICATIONS

24. **Resasco J**, Chacoff NP, and Vázquez DP (2021) Plant-pollinator interactions between generalists persist over time and space. *Ecology*. 102: e03359..
23. Roeder KA, Penuela Useche V, Levey DJ, and **Resasco J** (2021) Testing effects of invasive fire ants and disturbance on ant communities of the longleaf pine ecosystem. *Ecological Entomology*, 46: 964–972.
22. **Resasco J** and Fletcher RJ Jr. (2021) Accounting for connectivity alters the apparent roles of spatial and environmental processes on metacommunity assembly. *Landscape Ecology* 36: 1089–1099.
21. CaraDonna PJ, Burkle LA, Schwarz B, **Resasco J**, Knight T, Benadi G, Blüthgen N, Dormann CF, Fang Q, Fründ J, Gauzens B, Kaiser-Bunbury C, Winfree R, and Vázquez DP (2021). Seeing through the static: the temporal dimension of plant–animal mutualistic interactions. *Ecology Letters* 24: 149–161.
20. Prinster AJ, **Resasco J**, and Nufio CR (2020). Weather variation affects the dispersal of grasshoppers beyond their elevational ranges. *Ecology and Evolution* 10: 14411–14422.
19. 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 (2020). Temporal scale-dependence of plant-pollinator networks. *Oikos* 129 (9): 1271–1439. (Editor's Choice)
18. 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.
  17. **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.
  16. **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.
  15. **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.
  14. 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.
  13. 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-Duvel 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. *Ecology*, 98(3): 883–884. (data paper)
  12. **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.
  11. 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.
  10. Chandler JL, Orrock JL, and **Resasco J**. (2016) Invasive ants generate heterogeneity in patterns of seed survival. *American Midland Naturalist* 176(2):289-297.
  9. 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.
  8. **Resasco J**, Haddad NM, Shoemaker DD, Orrock JL, Brudvig LA, EI 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.
  7. **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.
  6. 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). Potential negative ecological

effects of corridors. *Conservation Biology* 28:1178–1187.

5. **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* 39:267-271.
4. **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.
3. **Resasco J**, Levey DJ, and Damschen EI, (2012) Habitat corridors alter trophic position of fire ants. *Ecosphere* 3, art. 11.
2. 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.
1. **Resasco J**, Hale AM, Henry MC, and Gorchoff DL (2007) Detecting an invasive shrub in forest understory using remote sensing. *International Journal of Remote Sensing*. 28:3739–3745.

#### Submitted manuscripts

1. Perryman N, Bitters ME, Hicks AL, **Resasco J**, and Davies KF. Experimental habitat fragmentation does not drive trophic downgrading of an invertebrate food web. In revision
2. Bitters ME, Meyers J, **Resasco J**, Sarre SS, Tuff KT, and Davies KF. Experimental habitat fragmentation disrupts host-parasite interaction over decades via persistence thresholds. In review
3. Bitters ME, Holtz S, Acruri P, Wilson R, Hicks AL, Resasco J, and Davies KF. The dynamic matrix predicts population response to long-term experimental forest fragmentation. In revision

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## PRESENTATIONS

### Invited seminars

- 2022 UC Riverside (upcoming)
- 2021 University of Colorado, Center for Sustainable Landscapes and Communities  
Montana State University, Department of Ecology  
Smithsonian Environmental Research Center  
Utah State University, Ecology Center, Biology Department  
University of Illinois, Urbana-Champaign, Department of Entomology
- 2020 University of Toronto, Mississauga, Department of Biology  
University of Wyoming, Department of Botany  
Northwestern University/ Chicago Botanic Garden, Plant Biology and Conservation
- 2019 University of Denver, Department of Biological Sciences  
Miami University, Department of Biology (REU program's 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

- 2021 International Association for Landscape Ecology North America meeting (upcoming) ‡  
Ecological Society of America, virtual meeting (upcoming) \*
- 2020 Ecological Society of America, virtual meeting ‡,\*  
Colorado Pollinator Summit ‡

- 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  
 Advanced Science School on Ecological Networks, Brazil  
 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, Fall 2021)
- University of Colorado, **Principles of Landscape Ecology** (Fall 2018, 2019, 2020; co-taught with Carol Wessman in 2018 and 2019)
- 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)

### MENTORING

#### Graduate Students

- Asia Kaiser (PhD)
- Anna Paraskevopoulos (PhD; NSF GRFP)
- Claire Winfrey (PhD; NSF GRFP; co-advised with Noah Fierer)
- Kaitlyn Barthell (BA-MA)
- Andrew Gaier (BA-MA)

#### Graduate Students Awards and Grants

- 2021 Asia Kaiser, CU Diversity Recruitment Fellowship  
 Andrew Gaier, Colorado Native Plant Society, Myrna Steinkamp Memorial Grant, \$1,000  
 Andrew Gaier, EBIO Research Award, \$1,000  
 Anna Paraskevopoulos, EBIO Research Award, \$2,175  
 Anna Paraskevopoulos, Beverly Sears Graduate Student Grant, \$1,000  
 Anna Paraskevopoulos, City of Boulder Open Space and Mountain Parks, \$2,400  
 Anna Paraskevopoulos, CU Museum of Natural History, Student Research Award, \$1,100  
 Claire Winfrey, EBIO Research Award, \$2,200  
 Kaitlyn Barthell, CanBee Cocktails, student grant, \$1,000
- 2020 Anna Paraskevopoulos, NSF Graduate Research Fellowship  
 Claire Winfrey, CU Diversity Recruitment Fellowship

#### Graduate student committees (\* Masters, † PhD)

Travis McDevitt-Galles (2019-21)<sup>†</sup>, Michael Catchen (2019-20)<sup>\*</sup>, Grant Vagle (2019- )<sup>†</sup>, Megan Zabinski (2019 - )<sup>\*†</sup>, Brendan Hobart (2019 - )<sup>†</sup>, Aislyn Keyes (2019 - )<sup>\*</sup>, Austin Nash (2019-)<sup>\*</sup>, Jess Mullins (2019-21)<sup>\*</sup>, Elias Stallard-Olivera (2021 - )<sup>†</sup>, Courtney Van Den elzen (2021 - )<sup>†</sup>, Will Cox (2021 - )<sup>†</sup>, Sean Streich (2020 - )<sup>†</sup>, Katie Williams (2021 - )<sup>†</sup>, Scott Nordstrom (2020- )<sup>†</sup>

#### Recent Undergraduate mentees

- **Honors:** Mairead Brogan (2021–22)
- **SMART program:** Anabella Miller (2020)
- **NSF-REU:** Michelle Kirchner (2018), Claire Turkal (2017), Samantha Skerlec (2017), Hector Castillo (2016), De'Aja Sanders (2016), Spencer Holtz (2015), Paulina Arcuri (2015)
- **Undergrad. Research Opportunity Program:** Claire Stufflebeam (2019), Emily Joy (2018), Manuela Mejia (2016 – 2017), Michaela Trainer (2016-17), Tyrha Delger (2015-16), Tai Kondo (2015-16), Audrey Oweimrin (2015-16), Rachel Ridgen (2015-16)
- **Research assistants:** Benjamin Overlie (2021), Jacob Unger (2019-20), Andrew Gaier (2019 -20), Matt Bitters (2015), Jasimine Vidrio (2015)
- **ESA SEEDS:** Hector Castillo (2017), Mary Keilhauer (2016), Eanas Alia (2015), Nicole Boone (2013)

### SERVICE AND CAMPUS INVOLVMENT

2019-present	CU EBIO Diversity and Inclusion Committee
2019, 2021-present	CU EBIO Executive Committee
2017-2020	CU-Café member (collective of diverse STEM trainees that promotes inclusivity and scientific excellence)
2021	CU-Café faculty advisor (with Karen Bailey and Lorne Hough)
2017	SACNAS chapter founding leadership team - postdoc advisor
2016-2018	Office of Postdoctoral Affairs Advisory Board member
2016-17	CU EBIO, <a href="#">Inclusive Excellence</a> Committee
2013-present	Contributor to <a href="http://www.conservationcorridor.org">http://www.conservationcorridor.org</a>
2009-2011	<a href="#">NSF I<sup>3</sup> Graduate Student Advisory Council</a>
2009	UF Biology Seminar Committee
2008	UF Biology Graduate Forum

## PEER REVIEW

### Editorial boards

**Associate Editor:** Journal of Animal Ecology (2017 – 2021)

**Subject Matter Editor:** Ecology and Ecological Monographs (2021 – present)

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

**Funding agency reviewer:** *National Science Foundation* (6 ad hoc, 2 panels).

**Misc. reviewer:** HHMI BioInteractive (educational material), Springer Publishing (book chapter)

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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)
- Colorado Native Plant Society (Lifetime member)

### Hosted seminar speakers

2022	Becky Irwin (NC State)
2021	Nate Sanders (University of Michigan)
2020	Emilio Bruna (University of Florida)
2019	Sara Bombacci (Colorado State)
2017	Aaron Ellison (Harvard Forest)
2016	Laura Burkle (Montana State University)
2015	Andrew Gonzalez (McGill University)
2014	Rob Fletcher (University of Florida)
2009	Rob Dunn (NC State)

### Languages

Fluent in Spanish and English

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## OUTREACH

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