

Daniel S. Karp

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CURRENT POSITION

2022-present Associate Professor, Department of Wildlife, Fish, & Conservation Biology
University of California, Davis
Department of Wildlife, Fish, & Conservation Biology

PREVIOUS POSITIONS

2017-2022 Assistant Professor, Department of Wildlife, Fish, & Conservation Biology
University of California, Davis

2015-2016 Killam Postdoctoral Fellow, The University of British Columbia
Institute for Resources, Environment, and Sustainability
Advisor: Kai Chan

2013-2015 NatureNet Science Fellow, The Nature Conservancy & UC Berkeley
Department of Environmental Science, Policy, and Management
Advisors: Claire Kremen, Mary Ruckelshaus, and Peter Kareiva

EDUCATION

2009-2013 PhD, Biology- Ecology and Evolution, Stanford University
Advisor: Gretchen Daily

2005-2009 BS, Biology- Ecology and Evolution Track, Stanford University
BS, Earth Systems- Biosphere Concentration, Stanford University
Advisors: Terry Root and Rodolfo Dirzo

CURRENT RESEARCH

Earth is experiencing more rapid changes now than at any time in the past ten thousand years. I am investigating the resulting trajectories of change in biodiversity and Earth's life-support systems. Looking forward, a key challenge for humanity is to increase food production, while at the same time securing other vital societal benefits from rural landscapes. Meeting this challenge requires improved understanding of how agricultural practices affect yields, biodiversity, and ecosystem services. My research thus focuses on developing methods for reconciling conservation activities with food production practices. My research program has four aspects. First, I develop and apply ecological theory to understanding and managing biodiversity in working landscapes. Second, I quantify the effects of alternative agricultural practices on biodiversity-mediated ecosystem services. Third, I investigate how identifying tradeoffs among biodiversity and ecosystem services can inform development of multifunctional landscapes. Finally, I work with international experts to synthesize science and guide policy.

TEACHING EXPERIENCE

- 2022 Co-instructor, Animal Space Use and Movement Ecology (ECL 290, graduate seminar).
- 2021-present Instructor, Conservation in Working Landscapes (WFC 126).
- 2018-present Instructor, Tropical Ecology and Conservation (WFC 125).
- 2017-present Instructor, Conservation Biology (WFC 154).
- 2017 Co-instructor, BioControl: Ecology & Applications (ECL 290, graduate seminar).
- 2010 Teaching Assistant, Human Evolution and the Environment (Bio 1).
- 2010 Teaching Assistant, Core Experimental Biological Laboratory (Bio 44Y).
- 2010 Teaching Assistant, Conservation Biology (Bio 144).
- 2009 Teaching Assistant, Biology of Birds (Bio 139).

MENTORING EXPERIENCE

Postdocs

- 2022-present Austin Spence, Postdoctoral Researcher
- 2021-present Sara Emery, Postdoctoral Researcher
- 2021-present Mahdieh Tourani, Postdoctoral Researcher
- 2020-present Jason Riggio, Postdoctoral Researcher
- 2019-present Naresh Devarajan, Postdoctoral Researcher (2019-2021);
Assistant Project Scientist (2021-present)
- 2019-2021 Daniel Paredes, Postdoctoral Researcher
- 2017-2020 Elissa Olimpi, Postdoctoral Researcher

Graduate Students

- 2022-present Emily Mensch, PhD student (co-supervisor)
- 2021-present Cody Pham, PhD student (supervisor)
- 2019-present Katherine Lauck, PhD student (supervisor)
- 2017-present Alison Ke, PhD student (supervisor)

Graduate Student Committees

- 2022 Yesenia Valverde (external qualifying exam committee member)
- 2022 Megan Doyle (qualifying exam committee member)
- 2022 Leila Harris (qualifying exam committee member)
- 2021 Michael Ellis (external qualifying exam committee member)
- 2020-present Maria Ospina (qualifying exam and dissertation committee)
- 2020 Breanna Martinico (qualifying exam committee)
- 2020 Aviv Karasov-Olson (qualifying exam committee)
- 2017-present Emelie Graves (qualifying and dissertation exam committees)
- 2017-present Daniel Rocha (guidance, qualifying, and dissertation exam committees)
- 2015-2019 Alejandra Echeverri Ochoa (qualifying and dissertation exam committees)
- 2017-2019 Mickey Agha (qualifying and dissertation exam committees)
- 2019 Valerie Linden (external evaluator; dissertation exam committee)
- 2019 Meredith Lutz (qualifying exam committee)
- 2018 Allie Essert (qualifying exam committee)
- 2017 Michael Culshaw-Maurer (qualifying exam committee)

Undergraduates

- 2021-2022 Thomas Phillips, Kees Hood, Katia Goldberg, Violet Wu, Wentao Yang, Yanshu Wang, Meirun Zhang
- 2020-2021 Thomas Phillips, Kees Hood, Katia Goldberg
- 2019-2020 Alice Mathew, Kathleen Mendez, Sophie Borison, Thomas Phillips
- 2018-2019 Janie Paz, Kathleen Cotti, Kimberly Luke, Adam Humphrey, Sophie Borison
- 2017-2018 Hallie Daly, Delayni Miller, Victoria Glynn, Eavan Barbieux

2015-2016	William Ou
2013-2014	Mia Waters, Sara Winesemias
2012-2013	Sarah Kaewert
2011-2012	Florence Rutsch, Maesen Churchill, Seth Judson, Zoe Dubrow
2010-2011	Steve Scheele

Visiting Scholars

2022	Ronald Sanchez-Brenes (PhD Student)
2021	Navila Monteagudo (PhD Student)
2017	Daniel Paredes (PhD Student)

SYNERGISTIC ACTIVITIES

2022-present	Subject Matter Editor , Ecological Applications and Ecological Monographs
2018-present	Review Editor , Frontiers in Sustainable Food Systems.
2018-present	Science Advisory Team , Wildlife Insights. Joined a collaborative effort to compile global camera trap data into one database to inform biodiversity monitoring. Working with colleagues to use these data to track changes in mammal/bird diversity in tropical protected areas. Also, recruited and now co-advise a postdoctoral scholar tasked with analyzing global camera trap data and producing occupancy analytics for the Wildlife Insights Platform.
2017-present	Student Blog Curator , UC Davis. Created and now curates an outward facing blog— The Student Conservation Corner (www.medium.com/student-conservation-corner)— where undergraduate students communicate conservation literature to the public.
2017-present	Outreach and workshops . Helped organize or present at >10 workshops in Costa Rica and California for farmers, conservationists, and industry officials, reaching >900 stakeholders.
2017-2020	Faculty Advisor of the Graduate Group of Ecology's Diversity Committee , UC Davis. One of two faculty members of a committee charged with fostering diversity and promoting inclusivity in the UC Davis ecology community.
2010-present	Ecosystem Services Working Group Member , Group on Earth Observations— Biodiversity Observation Network (GEO BON). Member of a working group designed to monitor and report changes in ecosystem services from local to global scales. Helped write manuscripts and designed research aimed at reporting ecosystem services at national scales.
2014-2017	Pest Control Working Group Co-Lead , National Socio-Environmental Synthesis Center (SESYNC). With Rebecca Chaplin-Kramer, organized international working group of ecologists, entomologists, economists, and sociologists to develop a general, spatial model for biological control. Responsible for all team leadership activities, including securing funding and coordinating bi-annual meetings, research activities, syntheses of pest control data, dissemination of findings, and outreach.
2010-present	Peer reviewer . Contributed peer reviews to >65 grants and academic articles for journals including <i>Nature</i> , <i>Ecology Letters</i> , <i>PNAS</i> , and others.
2016-2018	Science Advisory Board , The Nature Conservancy's Working Lands Program. Member of an advisory board tasked with reviewing the evidence that a variety of agricultural practices increase biodiversity, ecosystem services, and/or crop yields in Mediterranean ecosystems.
2012-2013	Rising Environmental Leaders Program , Woods Institute for the Environment. Trained in environmental leadership including crafting policy-informative research, communication skills, and strategies for

integrating research into policy with a cohort of 24 students. Attended meetings in California and in Washington, DC.

COMMITTEES

2022-present Conservation Ecology Area of Emphasis (*Graduate Group in Ecology*), chair
 2022-present Diversity, Equity, and Inclusion Committee (*College of Agriculture and Environmental Sciences*), member
 2017-present Admissions Committee (*Graduate Group in Ecology*), member
 2017-present Seminar Committee (*department*), chair
 2019-present Library Representative (*department*), chair
 2018-present Endowment and Scholarship Committee (*department*), member
 2017-present Wildlife Society Student Chapter (*department*), member
 2021-2022 Admissions Committee (*Graduate Group in Ecology*), chair
 2020-2022 Executive Committee (*Graduate Group in Ecology*), member
 2020-2021 Admissions Committee (*Graduate Group in Ecology*), vice-chair
 2018-2019 Swift Award Committee (*department*), member
 2020 Visioning Committee for Agriculture Sustainability Institute (college), member
 2017-2020 Diversity Committee (*Graduate Group in Ecology*), faculty mentor
 2019 Faculty Search Committee- Professor of Wildlife Teaching (*department*), member
 2018 Space Committee (*department*), member
 2018 Curriculum Committee (*department*), member
 2018 Faculty Search Committee- Wildlife Habitat Ecologist (*department*), member
 2017 Strategic Vision Committee (*department*), member

GRANTS

2022-present Agriculture Research Initiative (co-PI; \$121,180 to UC Davis; \$659,987 for the full award)
 2022-present USDA Bioenergy, Natural Resources, and Environment Program (PI; \$649,633)
 2022-present Center for Produce Safety (PI; \$365,515)
 2020-present USDA Food and Agriculture Cyberinformatics and Tools Initiation (co-PI; \$282,648 to UC Davis; \$877,990 for full award)
 2020-present Conservation International Wildlife Insights Program (PI; \$149,010)
 2019-present NSF and the Belmont Forum (Co-PI: \$179,542)
 2018-present NSF Coupled Human Natural Systems (Co-PI; \$140,081 to UC Davis; \$1,301,737 for the full award)
 2018-present USDA Agricultural Research Service (PI; \$435,570)
 2020-2022 National Geographic Committee for Research and Exploration (PI; \$17,100)
 2019-2021 UC Davis Academic Senate (PI: \$24,984)
 2019-2021 Center for Produce Safety (PI; \$290,678)
 2017-2021 USDA Bioenergy, Natural Resources, and Environment Program (PI; \$500,000)
 2017-2019 National Geographic Committee for Research and Exploration (PI; \$20,850)
 2015-2016 Killam Postdoctoral Research Fellowship (\$100,000)
 2013-2014 NatureNet Science Fellow, The Nature Conservancy (\$200,000)
 2013 Stanford BioSciences Travel Grant (\$500)
 2013 Stanford Biology Department Travel Grant (\$600)
 2012 NSF Doctoral Dissertation Improvement Grant (\$15,000)
 2012 Stanford Biology Department Travel Grant (\$750)
 2012 Organization for Tropical Studies Research Fellowship Program (\$3,650)
 2012 Bat Conservation International Student Scholarship (\$3,600)
 2012 SciFund Challenge (\$1,100)
 2011-2013 NSF Graduate Research Fellowship (\$180,000)
 2011 Vice Provost of Graduate Education SCORE grant (\$2,000)

2008	Tambopata Experienced Researcher Fellowship (\$5,000)
2008	Stanford University Major Grant (\$5,200)
2007	Tambopata Research Fellowship (\$5,000)
2007	Monica Miller Walsh Internship Grant (\$2,150)
2007	Stanford University Quarterly Grant (\$1,500)

HONORS AND FELLOWSHIPS

2018	Nominated by UC Davis for Packard Early Career Fellowship.
2015	Killam Postdoctoral Research Fellowship, Killam Trusts Office.
2014	Hann Endowed Lecture of Ornithology, University of Michigan.
2014	Faculty of 1000, Nomination of 2012 Ecology Letters paper.
2014	Early Career Scientist Symposium, University of Michigan.
2013	Davidson-Cristoph Award, Organization for Tropical Studies
2013	NatureNet Science Fellowship, Inaugural class
2012	Best Talk Award, North American Congress for Conservation Biology
2010	Graduate Research Fellowship, NSF
2010	Excellence in Teaching Award, Biology Department-Stanford University
2009	JE Sterling Award for Scholastic Achievement, Stanford University
2009	Firestone Medal for Undergraduate Research, Stanford University
2009	Miller-Marsden Prize for Environmental Research, Stanford University
2009	Dean's Award for Academic Achievement, School of Earth Sciences
2009	Honorable Mention Graduate Research Fellowship, NSF
2007	Award for Excellence in Biological Laboratory, Stanford University
2006	President's Award for Academic Excellence, Stanford University

PUBLICATIONS (* = shared first authorship)

73. Rosenheim, J.A., E. Cluff, M.K. Lippey, B.N. Cass, D. Paredes, S. Parsa, **D.S. Karp**, and R. Chaplin-Kramer. (In Press) Increasing crop field size does not consistently exacerbate insect pest problems. *Proceedings of the National Academy of Sciences*.
72. Alexandridis, N., G. Marion, R. Chaplin-Kramer, M. Dainese, J. Ekroos, H. Grab, M. Jonsson, **D.S. Karp**, C. Meyer, M.E. O'Rourke, M. Pontarp, K. Poveda, R. Seppelt, H.G. Smith, Y. Clough, and E.A. Martin. (In Press) Archetype models upscale understanding of natural pest control response to land-use change. *Ecological Applications*.
71. Ke, A., R. Sollmann, L.O. Frishkoff, and **D.S. Karp**. (In Press) A hierarchical N-mixture model to estimate shifts in animal behavior. *Ecological Applications*.
70. Carlisle, L.*, K.E. Esquivel*, P. Baur, N. Ichikawa, E.M. Olimpi, J. Ory, H. Waterhouse, A. Iles, **D.S. Karp**, C. Kremen, and T. Bowles. (2022) Organic vegetable farmers face persistent structural barriers to adopting diversification practices in California's Central Coast. *Agroecology and Sustainable Food Systems*. DOI: <https://doi.org/10.1080/21683565.2022.2104420>
69. Olimpi, E.M., H. Daly, K. Garcia, V.M. Glynn, D.J. Gonthier, C. Kremen, L.K. M'Gonigle, and **D.S. Karp**. (2022) Interactive effects of multiscale diversification practices on farmland bird stress. *Conservation Biology* **36**: e13902.
68. Olimpi, E.M., K. Garcia, D.J. Gonthier, C. Kremen, W.E. Snyder, E.E. Wilson-Rankin, and **D.S. Karp**. (2022) Semi-natural habitat surrounding farms promotes multifunctionality in avian ecosystem services. *Journal of Applied Ecology* **59**: 898-908.

67. Paredes, D., J.A. Rosenheim, and **D.S. Karp**. (2022) The causes and consequences of pest population stability in agricultural landscapes. *Ecological Applications* **32**: e2607.
66. Smith, O., C.M. Kennedy, A. Echeverri, **D.S. Karp**, J.M. Taylor, E.E. Wilson-Rankin, J.P. Owen, and W.E. Snyder. (2022) Complex landscapes stabilize farm bird communities and their expected ecosystem services. *Journal of Applied Ecology* **59**: 927-941. **Cover Article**.
65. Smith, O., E.M. Olimpi, N. Navarro-Gonzalez, K. Cornell, L.O. Frishkoff, T.D. Northfield, T.M. Bowles, A. Edworthy, J. Eilers, Z. Fu, K. Garcia, D.J. Gonthier, M.S. Jones, C.M. Kennedy, C.E. Latimer, J.P. Owen, C. Sato, J.M. Taylor, E.E. Wilson-Rankin, W.E. Snyder, **D.S. Karp**. (2022) A trait-based framework for predicting foodborne pathogen spillover from wild birds. *Ecological Applications* **32**: e2523.
64. Chapman, M., S. Wiltshire, P. Baur, T.M. Bowles, L. Carlisle, F. Castillo, K. Eszquivel, S. Gennet, A. Iles, D.S. Karp, C. Kremen, J.A. Liebert, E.M. Olimpi, J. Ory, M. Ryan, A.R. Sciligo, J. Thompson, H. Waterhouse, and C. Boettiger. (2022) Social-ecological feedbacks drive tipping points in farming system diversification. *One Earth*, **5**: 283-292.
63. Balvanera, P., I.R. Geijzendorffer, A. Cord, E.G. Drakou, **D.S. Karp**, B. Martín-López, T.H. Mwampamba, K.A. Brauman, and M. Schröter (2022) Essential ecosystem service variables for monitoring progress towards sustainability. *Current Opinion in Environmental Sustainability* **54**: 101152.
62. Esquivel, K.E.* , L. Carlisle*, A. Ke, E.M. Olimpi, P. Baur, J. Ory, H. Waterhouse, A. Iles, **D.S. Karp**, C. Kremen, and T. Bowles (2021) The 'sweet spot' in the middle: why do mid-scale farms adopt diversification practices at higher rates? *Frontiers in Sustainable Food Systems* **5**: 734088.
61. Alexandridis, N., G. Marion, R. Chaplin-Kramer, M. Dainese, J. Ekroos, H. Grab, M. Jonsson, **D.S. Karp**, C. Meyer, M. E. O'Rourke, M. Pontarp, K. Poveda, R. Seppelt, H.G. Smith, E.A. Martin, and Y. Clough (2021) Models of natural pest control: towards predictions across agricultural landscapes. *Biological Control* **163**: 104761.
60. Samaddar, S., **D.S. Karp**, R. Schmidt, N. Devarajan, J.A. McGarvey, A. Pires, and K. Scow. (2021) Role of soil in the regulation of human and plant pathogens: soils' contributions to people. *Philosophical Transactions of the Royal Society B* **376**: 20200179.
59. Devarajan, N., J. McGarvey, K.M. Scow, M.S. Jones, S. Lee, S. Samaddar, R. Schmidt, T. Tran, and **D.S. Karp** (2021) Cascading effects of composts and cover crops on soil chemistry, bacterial communities, and the survival of foodborne pathogens. *Journal of Applied Microbiology* **131**: 1564-1577.
58. Echeverri*, A., **D.S. Karp***, L.O. Frishkoff, J. Krishnan, R. Naidoo, J. Zhao, and K.M.A. Chan (2021) Avian cultural services peak in tropical wet forests. *Conservation Letters* **14**: e12763. **Cover Article**.
57. Bay, R.A., **D.S. Karp**, J.F. Saracco, W.R.L. Anderegg, L. Frishkoff, D. Wiedenfeld, T.B. Smith, and K. Ruegg. (2021) Genetic variation reveals individual-level climate tracking across the full annual cycle of a migratory bird. *Ecology Letters* **24**: 819-828.
56. Paredes, D., J.A. Rosenheim, R. Chaplin-Kramer, S. Winter, and **D.S. Karp** (2021).

- Landscape simplification increases vineyard pest outbreaks and insecticide use. *Ecology Letters* 14: 73-83.
55. Tamburini, G., G. Santoiemma, M. O'Rourke, R. Bommarco, R. Chaplin-Kramer, M. Dainese, **D.S. Karp**, T.N. Kim, E.A. Martin, M. Peterson, and L. Marini (2020) Species traits elucidate crop pest response to landscape composition: a global analysis. *Proceedings of the Royal Society: B* 287: 20202116.
 54. Garcia, K., E.M. Olimpi, **D.S. Karp**, and D.J. Gonthier (2020) The good the bad and the risky: can birds be incorporated as biological control agents into integrated pest management programs. *Journal of Integrated Pest Management* 11: 1-11.
 53. Olimpi, E.M., K. Garcia, D. Gonthier, K.T. De Master, A. Echeverri, C. Kremen, A.R. Sciligo, W.E. Snyder, E. Wilson-Rankin, and **D.S. Karp** (2020) Shifts in species interactions and farming contexts mediate net effects of birds in agroecosystems. *Ecological Applications* 30: e02115. **Cover Article.**
 52. Echeverri, A., **D.S. Karp**, R. Naidoo, J.A. Tobias, J. Zhao, and K. Chan (2020) Can avian functional traits predict cultural ecosystem services? *People and Nature* 2: 138-151.
 51. González-Chang, M., S.D. Wratten, M.W. Shields, R. Costanza, M. Dainese, G.M. Gurr, J. Johnson, **D.S. Karp**, J.W. Ketelaar, J. Nboyine, J. Pretty, R. Rayl, H. Sandhu, M. Walker, and W. Zhou (2020) Understanding the pathways from biodiversity to agro-ecological outcomes: a new, interactive approach. *Agriculture, Ecosystems, and the Environment* 301: 107053.
 50. Olimpi, E.M., P. Baur, D. Gonthier, **D.S. Karp**, C. Kremen, A. Sciligo, and K.T. De Master (2019) Evolving food safety pressures in California's Central Coast region. *Frontiers in Sustainable Food Systems* 3:102.
 49. Dainese, M., E.A. Martin, M.A. Aizen, M. Albrecht, I. Bartomeus, R. Bommarco, L.G. Carvalheiro, R. Chaplin-Kramer, V. Gagic, L.A. Garibaldi, J. Ghazoul, H. Grab, Mattias Jonsson, **D.S. Karp**, C.M. Kennedy, D. Kleijn, C. Kremen, D.A. Landis, D.K. Letourneau, L. Marini, K. Poveda, R. Rader, H.G. Smith, T. Tschardtke, G.K.S. Andersson, I. Badenhauer, S. Baensch, A.D.M. Bezerra, F.J.J.A. Bianchi, V. Boreux, V. Bretagnolle, B. Caballero-Lopez, P. Cavigliasso, A. Četković, N.P. Chacoff, A. Classen, S. Cusser, F.D. da Silva e Silva, G.A. de Groot, J. H. Dudenhöffer, J. Ekroos, T. Fijen, P. Franck, B.M. Freitas, M.P.D. Garratt, C. Gratton, J. Hipólito, A. Holzschuh, L. Hunt, A.L. Iverson, S. Jha, T. Keasar, T.N. Kim, M. Kishinevsky, B.K. Klatt, A.-M. Klein, K.M. Krewenka, S. Krishnan, A.E. Larsen, C. Lavigne, H. Liere, B. Maas, R.E. Mallinger, E.M. Pachon, A. Martínez-Salinas, T.D. Meehan, M.G.E. Mitchell, G.A.R. Molina, M. Nesper, L. Nilsson, M.E. O'Rourke, M.K. Peters, M. Plečaš, S.G. Potts, D.L. Ramos, J.A. Rosenheim, M. Rundlöf, A. Rusch, A. Sáez, J. Scheper, M. Schleuning, J. Schmack, A.R. Sciligo, C. Seymour, D.A. Stanley, R. Stewart, J.C. Stout, L. Sutter, M.B. Takada, H. Taki, G. Tamburini, M. Tschumi, B.F. Viana, C. Westphal, B.K. Willcox, S.D. Wratten, A. Yoshioka, C. Zaragoza-Trello, W. Zhang, Y. Zou, and I. Steffan-Dewenter (2019) A global synthesis reveals biodiversity-mediated benefits for crop production. *Science Advances* 5: eaax0121.
 48. Mastrángelo, M.E., N. Perez-Harguindeguy, L. Enrico, E. Bennett, S. Lavorel, G.S. Cumming, D. Abeygunawardane, L.D. Amarilla, B. Burkhard, B.N. Egoh, L.O. Frishkoff, L. Galetto, S. Huber, **D.S. Karp**, A. Ke, E. Kowaljow, A. Kronenburg-García, B. Locatelli, B. Martín-López, P. Meyfroidt, T.H. Mwampamba, J. Nel, K.A. Nicholas, C. Nicholson, E.

- Oteros-Rozas, S.J. Rahlao, C. Raudsepp-Hearne, T. Ricketts, U.B. Shrestha, C. Torres, K.J. Winkler, and K. Zoeller (2019) Key knowledge gaps to achieve global sustainability goals. *Nature Sustainability* **2**: 1115-1121.
47. Shackelford, G., R. Kelsey, W. Sutherland, C.M. Kennedy, S. Wood, S. Gennet, **D.S. Karp**, C Kremen, N. Seavy, J. Jedlicka, K. Gravuer, S. Kross, D. Bossio, A. Muñoz-Sáez, D. Griffin, K. Garbach, L. Ford, M. Felice, M. Reynolds, D. Rao, K. Boomer, G. LeBuhn, and L. Dicks (2019) Evidence synthesis as the basis for decision analyses: a method of selecting the best agricultural practices for multiple ecosystem services. *Frontiers in Sustainable Food Systems*. **3**: 83.
46. Chaplin-Kramer, R., M. O'Rourke, N. Schellhorn, W. Zhang, B. Robinson, C. Gratton, J.A. Rosenheim, T. Tschardtke, and **D.S. Karp** (2019) Measuring what matters: actionable information for conservation biocontrol in multifunctional landscapes. *Frontiers in Sustainable Food Systems*. **3**: 60.
45. Echeverri, A., L.O. Frishkoff, J.P. Gomez, J.R. Zook, P. Juárez, R. Naidoo, K.M.A. Chan, and **D.S. Karp** (2019) Precipitation and tree cover gradients structure avian alpha-diversity in Northwestern Costa Rica. *Diversity and Distributions*. **25**: 1222-1233.
44. Gonthier, D., A. Sciligo, **D.S. Karp**, A. Lu, K. Garcia, G. Juarez, T. Chiba, and C. Kremen (2019) Bird services and disservices to strawberry farming in Californian agricultural systems. *Journal of Applied Ecology*. **56**: 1948-1959.
43. **Karp, D.S.**, A. Echeverri, J. Zook, P. Juárez, A. Ke, J. Krishnan, K.M.A. Chan, and L.O. Frishkoff (2019) Remnant forest on private land fosters Neotropical bird communities that are indistinguishable from formal reserves. *Journal of Applied Ecology*. **56**: 1839-1849.
42. Frishkoff, L.O. and **D.S. Karp** (2019) Species-specific responses to habitat conversion across scales synergistically restructure Neotropical bird communities. *Ecological Applications* **29**: e01910. **Cover Article**.
41. Frishkoff, L.O., A. Ke, I. Martins, E. Olimpi, and **D.S. Karp** (2019) Countryside Biogeography: The controls of species distributions in human-dominated landscapes. *Current Landscape Ecology Reports* **4**: 15-30.
40. Echeverri, E., R. Naidoo, **D.S. Karp**, K.M.A. Chan, and J. Zhao (2019) Iconic manakins and despicable grackles: comparing bird-related cultural ecosystem services across birdwatchers, farmers, and urbanites in Northwestern Costa Rica. *Ecological Indicators* **106**:105454.
39. Dinat, D., A. Echeverri, M. Chapman, **D.S. Karp**, and T. Satterfield (2019) Eco-xenophobia among rural populations: the Great-tailed Grackle as a contested species in Guanacaste, Costa Rica. *Human Dimensions of Wildlife*. **24**: 332-348.
38. Jones, M.S., Z. Fu, J.P. Reganold, **D.S. Karp**, T.E. Besser, J.M. Tylianakis, and W.E. Snyder (2019) Organic farming promotes biotic resistance to food-borne human pathogens. *Journal of Applied Ecology* **56**: 1117-1127.
37. Paredes, D., **D.S. Karp**, R. Chaplin Kramer, E. Benítez, and M. Campos (2019) Natural habitat increases the economic value of natural pest control in olive groves. *Journal of Pest Science* **92**: 1111-1121.

36. Maas, B., S. Heath, I. Grass, C. Cassano, A. Classen, D. Faria, P. Gras, K. Williams-Guillén, M. Johnson, **D. S. Karp**, V. Linden, A. Martínez-Salinas, J. Schmack, and Sara Kross (2019) Experimental field enclosure of birds and bats in agricultural systems - methodological insights, potential improvements, and cost-benefit trade-offs. *Basic and Applied Ecology* **35**: 1-12.
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the National Academy of Sciences **112**: 11126-11131.

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12. Mendenhall, C.D., **D.S. Karp**, C.F.J. Meyer, E.A. Hadly, and G.C. Daily. (2014) Predicting biodiversity change and averting collapse in agricultural landscapes. *Nature* **509**: 213-217.
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6. Anderegg, W.R.L, L. Anderegg, C. Sherman, and **D.S. Karp** (2012) Effects of widespread drought-induced aspen mortality on understory plants. *Conservation Biology* **26**: 1082-1090.
5. Tallis, H., H. Mooney, S. Andelman, P. Balvanera, W. Cramer, **D.S. Karp**, S. Polasky, B.

Reyers, T. Ricketts, S. Running, K. Thonicke, B. Tietjen, and A. Walz (2012) A global system for monitoring ecosystem service change. *BioScience* **62**: 977-986.

4. **Karp, D.S.**, A.J. Rominger, J. Zook, J. Ranganathan, P.R. Ehrlich, and G.C. Daily (2012) Intensive agriculture erodes β -diversity at large scales. *Ecology Letters* **15**: 963-970. **Faculty of 1000.**
3. **Karp, D.S.**, G. Ziv, J. Zook, P.R. Ehrlich, and G.C. Daily (2011) Resilience and stability in bird guilds across tropical countryside. *Proceedings of the National Academy of Sciences* **108**: 21134-21139.
2. **Karp, D.S.** and R. Guevara (2011) Conversational noise reduction as a win-win for ecotourists and rainforest birds. *Biotropica* **43**: 122-130
1. **Karp, D.S.** and T. Root (2009) Sound the stressor: how hoatzins (*Opisthocomus hoazin*) react to ecotourist conversation. *Biodiversity and Conservation* **18**: 3733-3742.

PUBLICATIONS IN REVIEW

- Riggio, J., Engilis, A., Cook, H., De Greef, E., **Karp, D.S.**, and Truan, M. (In Review) Long-term monitoring reveals the impact of changing climate and habitat on the fitness of cavity-nesting songbirds. *Biological Conservation*.
- García, K., E.M. Olimpi, L. M'Gonigle, **D.S. Karp**, E.E. Wilson-Rankin, C. Kremen and D.J. Gonthier (In Review) Semi-natural habitats on organic strawberry farms and in surrounding landscapes promote bird biodiversity and pest control potential. *Agriculture, Ecosystems, and the Environment*.
- Lauck, K.S.* , A. Ke*, E.M. Olimpi, D. Paredes, K. Hood, T. Phillips, W.R.L. Anderegg, and **D.S. Karp** (In Review) Habitat conversion and temperature extremes interactively erode avian fitness across the United States. *Science*.
- Ke, A., R. Sollmann, L.O. Frishkoff, A. Echeverri, J. Zook, and **D.S Karp** (In Review) Habitat conversion to agriculture reduces avian reproductive behavior in Northwest Costa Rica. *Ecology Letters*.

POPULAR PUBLICATIONS

- Devarajan, N., and **D.S. Karp** (2022) Can organic soil management practices limit the survival of foodborne pathogens? *Microbiologist* **23**: 24-26.
https://issuu.com/societyforappliedmicrobiology/docs/sfam_microbiologist_june_2022_hresingles/24
- Smith, O.M., E.M. Olimpi, and **D.S. Karp** (2022) Feedlot association increases food safety risk associated with wild birds. *Bulletin of The Ecological Society of America* **103**: e01974.
- Garcia, K., E.M. Olimpi, **D.S. Karp**, and D.J. Gonthier (2020) Birds, bugs, and agriculture: is it a sin to kill a mockingbird? *Entomology Today*. Entomological Society of America.
- A. Echeverri, **D.S. Karp**, and J. Tobias (2020) Loved or loathed: Why are some Neotropical birds more popular than others. *Neotropical Birding*.
- D.S. Karp** and A. Echeverri. (2019) Forest patches in working landscapes offer surprising

opportunities to conserve neotropical birds. *The Applied Ecologist*. Journal of Applied Ecology Blog. <https://appliedecologistsblog.com/2019/06/27/forest-patches-neotropical-birds/>

D.S. Karp, S. Gennet, and R. Kelsey (2014) Can we grow safe produce and conserve nature at the same time? *Cool Green Science*. The Nature Conservancy. <http://blog.nature.org/science/2014/12/15/safe-produce-conservation-nature-wildlife-ecoli-habitat-foodborne>

L.O. Frishkoff and **D.S. Karp** (2014) Preserving evolutionary history alongside tropical agriculture. *Landscapes Blog for People, Food, and Nature*. EcoAgricultural Partners. <http://peoplefoodandnature.org/blog/preserving-evolutionary-history-alongside-tropical-agriculture/>

D.S. Karp (2014) Discovering abundance in own backyard. *Field Notes*. Peninsula Open Space Trust. <http://blog.openspacetrust.org/2014/06/26/abundance-in-our-backyard/>

Keyes, S.M. and **D.S. Karp**. (2014) The Bard's Birds. *The Pacific Standard*. <http://www.psmag.com/navigation/nature-and-technology/shakespeare-fanatic-introduced-bards-birds-america-82279/>

Karp, D.S. (2012) Big farms, small farms, and biodiversity. *Landscapes Blog for People, Food, and Nature*. EcoAgricultural Partners. http://blog.ecoagriculture.org/2012/09/19/ccb_birds/

Karp, D.S. (2011) Birds, bats, and the berry borer: Conserving insectivores and pest control services in Costa Rican coffee plantations. *Amigos Newsletter N76*: 6-7.

Karp, D.S. (2011) Birds, bats, and la broca: valuing pest control in coffee plantations. *San Vito Bird Club Newsletter 5*: 6-9

INVITED TALKS

2022	BUZZ Ecology Conference, GoogleX
2021	Kellogg Biological Station, Michigan State University
2021	Dept of Wildlife, Fish, and Conservation Biology, University of California, Davis
2021	Project Director's Meeting, United States Department of Agriculture
2020	UC Davis Environmental Law Symposium, University of California, Davis
2020	California District Attorneys Association, Long Beach, California
2019	Department of Evolution and Ecology, University of California, Davis
2018	Project Director's Meeting, United States Department of Agriculture
2018	School of Forest Resources and Environmental Science, Michigan Technological University
2018	Department of Ecology and Evolutionary Biology, Tulane University
2018	Department of Entomology, University of California, Davis
2018	Dept. of Wildlife, Fish, & Conservation Biology, University of California, Davis
2018	Department of Ecology and Evolutionary Biology, University of Arizona
2018	Department of Ecology, Evolution, and Behavior, UT Austin
2017	Project Director's Meeting, United States Department of Agriculture
2017	Wildlife, Fish, and Conservation Biology Seminar Series, UC Davis
2017	Wildlife Seminar Series, UC Berkeley
2016	Institute for Resources, Environment, & Sustainability Seminar Series, University of British Columbia
2016	Centro Agronómico Tropical de Investigación y Enseñanza (CATIE)

2016	Department of Food Science, Cornell University
2015	Department of Wildlife, Fish, and Conservation Biology, UC Davis
2015	Department of Anthropology, UC Davis
2015	Department of Ecology and Evolutionary Biology, Princeton University
2014	Swedish University of Agricultural Sciences
2014	Center for Latin American Studies, Stanford University
2014	MARINE seminar series, Moss Landing Biological Labs
2014	Hann endowed lecture, University of Michigan, Biological Station
2014	Early Career Scientist Symposium, University of Michigan.
2014	Center for Tropical Research, University of California Los Angeles
2014	San Jose State University
2014	Essig Museum of Entomology, University of California Berkeley
2013	San Francisco State University
2009	Achauer Symposium, Stanford University

CONFERENCE PRESENTATIONS (* = invited, + = organized symposium, \$ = keynote)

2022	Ecological Society of America
2022	Center for Produce Safety Research Symposium*
2022	EcoFarm Annual Conference*
2021	Nekudat Hen Annual Conference *, \$
2021	Ecological Society of America+
2021	Center for Produce Safety Research Symposium*
2020	Ecological Society of America
2020	Center for Produce Safety Research Symposium*
2019	American Ornithological Society*
2018	American Ornithological Society*, +
2017	Ecological Society of America*
2017	Natural Capital Symposium, Stanford University*
2016	North American Ornithological Congress
2016	Ecological Society of America
2015	Natural Capital Symposium, Stanford University
2014	Ecological Society of America
2013	Association for Tropical Biodiversity and Conservation*
2013	All Science Meeting, The Nature Conservancy
2012	Ecological Society of America
2012	North American Congress of the Society for Conservation Biology
2011	Ecological Society of America
2011	Bay Area Conservation Biology Symposium

Webinars/Workshops

2022	Finding and Contacting Potential Advisors, Ecology and Evolution Graduate Preview Program
2022	Role of Birds on Farms Virtual Course, Wild Farm Alliance
2022	Essential Ecosystem Service Variables Webinar, Group on Earth Observations-Biodiversity Observation Network
2021	Vegetated Practices and Food-Safety Impacts Webinar, California Marine Sanctuary Foundation
2021	Bird Identification and Conservation Workshop, Hojanca Costa Rica
2021	Virtual Field Day Webinar, Blue Herons, Wild Farm Alliance
2020	Beyond Environmental Science Series, Webinar
2019	Bird Management Grower Workshop and Banding Demonstration, Tres Sabores

- 2019 Vineyard, Napa, California
- 2019 Bird Management Grower Workshop and Banding Demonstration, Wights Station Vineyard, Los Gatos, California
- 2019 Bird Management Grower Workshop and Banding Demonstration, Redhill Farm, Nevada City, California
- 2019 Agro-Ecology Course Field Trip, UC Santa Cruz
- 2019 Field Trip for EcoFarm Conference, Watsonville, California
- 2019 Water Control Board, Watsonville, California
- 2019 Chinese Academy of Agricultural Sciences Delegation, UC Davis
- 2019 SINAC and MINEAT, Hojanca, Costa Rica
- 2019 Taylor Farms, Watsonville, California
- 2019 Bird Identification and Conservation Workshop, Hojanca Costa Rica
- 2019 Corredor Biológico Hojanca-Nandayure, Hojanca, Costa Rica
- 2018 Biological Control Modeling Workshop, Lund University
- 2018 Western Section Student Conclave, The Wildlife Society
- 2017 Developing BONs in Latin America, Stanford University*
- 2016 Way Cool Seminar Series, Biodiversity Research Centre, University of British Columbia
- 2016 Canada Wildlife Service, Environment and Climate Change Canada
- 2012 Species Interactions Workshop, Stanford University/UC Santa Cruz
- 2012 Species Interactions Workshop, Stanford University/UC Santa Cruz

MEDIA AND OUTREACH

I have worked with the UC Davis and Stanford University press offices to develop releases, and have been interviewed for print, online, television, and radio media. Outlets include Nature News, PBS, and NPR. Articles have been published in English, Spanish, Dutch, and German.