DR. JUNIPER L. SIMONIS

(they/them pronouns)

Quantitative Ecological Scientist

simonis@dapperstats.com
ORCID iD: 0000-0001-9798-0460

EDUCATION

PhD Ecology and Evolutionary Biology, Cornell University 2013

BS Integrative Biology, University of Illinois: Urbana-Champaign 2006

RESEARCH AND PROFESSIONAL EXPERIENCE

DAPPER Stats

Founder, Owner, Lead Scientist: 2015-Present

University of Florida

Data Analyst, Weecology Laboratory: 2017-2019

Edanz Editing

Expert Language Editor: 2016-2017

Cramer Fish Sciences

Biometrician: 2015-2016

Lincoln Park Zoo

Adjunct Scientist, Alexander Center for Applied Population Biology and Urban Wildlife Institute: 2015-Present

Research Scientist, Alexander Center for Applied Population Biology: 2015

Postdoctoral Fellow, Alexander Center for Applied Population Biology: 2013-2015

Cornell University

National Science Foundation Graduate Research Fellow: 2007-2013

Florida State University

Research Technician, Underwood Laboratory: 2006-2007

University of Illinois: Urbana-Champaign

Independent Undergraduate Researcher, Shearer Laboratory: 2005-2006

Research Assistant, Suarez Laboratory: 2005-2006

REU Researcher, Cáceres Laboratory and Kellogg Biological Station: 2005

TEACHING, ADVISING, AND SUPERVISING EXPERIENCE

Course Instructor

Statistics and Coding for Resource Managers [Professional Development Workshop], The Freshwater Trust, Portland OR: Spring 2018

Science Coding in the Classroom [Middle School Teacher Professional Development Course], Chicago Public Schools: Summer 2015

Ecological Design and Analysis Using R [Graduate Course], Cornell University: Spring 2010 and Fall 2011

Introduction to Programming in R [Intensive Workshop], Cornell University: Fall 2010

Evolutionary Biology, Writing-in-the-Majors Track, Cornell University: Fall 2009

Teaching Assistant

Evolutionary Biology and Diversity, Cornell University: Fall 2012

Limnology [Lecture and Laboratory Courses], Cornell University: Spring 2012

Advisor

Population Biology Internship, Lincoln Park Zoo: 2014

Kara Pellowe-Wagstaff, Cornell University Undergraduate, B.S. with High Honors: 2012

Research Internships in Field Sciences, Shoals Marine Laboratory: 2010-2011

Manager

Alexander Center Staff [Three Full-Time Employees, One Intern], Lincoln Park Zoo: 2014-2015

PUBLICATIONS

† Undergraduate co-author
Work prior to 2017-10-01 authored as "Joseph L. Simonis"

Preprints

Meiners, J. M., M. C. Orr, K. Riemer, T. L. Griswold, and J. L. Simonis. 2020. The influence of data type and functional traits on native bee phenology metrics: Opportunistic versus inventory records. *bioRxiv*. DOI: 10.1101/2020.04.16.044750

Journal Publications

Simonis, J. L. and J. E. Merz. 2019. Prey availability, environmental constraints, and aggregation dictate distribution of an imperiled fish. *Ecosphere* **10**:e02634. DOI: 10.1002/ecs2.2634

White, E. P., G. M. Yenni, S. Taylor, E. Christensen, E. Bledsoe, J. L. Simonis, and S. K. M. Ernest. 2019. Developing an automated iterative near-term forecasting system for an ecological study. *Methods in Ecology and Evolution* **10**:332-344. DOI: 10.1111/2041-210X.13104

Christensen, E., G. M. Yenni, H. Ye, J. L. Simonis, E. K. Bledsoe, R. M. Diaz, S. D. Taylor, E. P. White, and S. K. M. Ernest. 2019. portalr: an R package for summarizing and using the Portal Project Data. *Journal of Open Source Software* **4**(33):1098. DOI: 10.21105/joss.01098

Faust, L. J., S. T. Long, K. Perišin, and J. L. Simonis. 2019. Uncovering challenges to sustainability of AZA Animal Programs by evaluating the outcomes of breeding and transfer recommendations with PMCTrack. *Zoo Biology* **38**:24-35. DOI: 10.1002/zoo.21470

Fidino, M. A., J. L. Simonis, and S. B. Magle. 2019. A multistate dynamic occupancy model to estimate local colonization–extinction rates and patterns of co-occurrence between two or more interacting species. *Methods in Ecology and Evolution* **10**:233-244. DOI: 10.1111/2041-210X.13117

Simonis, J. L., R. B. Harrison, S. T. Long, D. R. Rabon, Jr., W. T. Waddell, and L. J. Faust. 2018. Movement and mixing in a managed metapopulation of the critically endangered red wolf. *The Journal of Wildlife Management* **82**:573-582. DOI: 10.1002/jwmg.21397

Zaringhalam, M., R. Vijayaraghavan, J. L. Simonis, K. Ramirez, and J. Zelikova, on behalf of 500 Women Scientists. Journal editors should not divide scientists. 2018. *Science* **360**: 163-164. DOI: 10.1126/science.aat6288

Ramirez, K. S., A. A. Berhe, J. Burt, G. Gil-Romera, R. F. Johnson, A. Koltz, I. Lacher, T. McGlynn, K. J. Nielsen, R. Schmidt, J. L. Simonis, C. P. terHorst, and K. Tuff. 2017. The future of ecology is collaborative, inclusive, and deconstructs biases. *Nature Ecology and Evolution* **2**:200. DOI: 10.1038/s41559-017-0445-7

Merz, J., P. S. Bergman, J. L. Simonis, D. Delaney, J. Pierson, P. Anders. 2016. Long-term seasonal trends in the prey community of Delta smelt (*Hypomesus transpacificus*) within the Sacramento-San Joaquin Delta, California. *Estuaries and Coasts* **39**:1526-1536. DOI: 10.1007/s12237-016-0097-x

Pellowe-Wagstaff, K. E.† and J. L. Simonis. 2014. The ecology and mechanisms of overflow-mediated dispersal in a rock-pool metacommunity. *Freshwater Biology* **59**:1161-1172. DOI: 10.1111/fwb.12337

Simonis, J. L. and J. C. Ellis. 2014. Bathing birds bias β-diversity: frequent dispersal by gulls homogenizes fauna in a rock-pool metacommunity. *Ecology* **95**:1545-1555. DOI: 10.1890/13-1185.1

Bell, R. C., A. Belmaker, J. M. Brown, C. Couch, K. Francisco, M. E. Manuel, K. M. Marchetto, J. L. Simonis, R. Q. Thomas, and J. P. Sparks. 2013. Effectiveness of bio-control in mediating Erythrina gall wasp (*Quadrastichus erythrinae*) infestations of Wiliwili trees (*Erythrina sandwicensis*). *Journal of the Torrey Botanical Society* **140**:215-224. DOI: 10.3159/TORREY-D-12-00069.1

Simonis, J. L. 2013. Predator ontogeny determines trophic cascade strength in freshwater rock pools. *Ecosphere* **4**:art62. DOI: 10.1890/ES13-00019.1

Simonis, J. L. 2013. Prey (*Moina macrocopa*) population density drives emigration rate of its predator (*Trichocorixa verticalis*) in a rock-pool metacommunity. *Hydrobiologia* **715**:19-27. DOI: 10.1007/s10750-012-1268-9

Simonis, J. L. 2012. Demographic stochasticity reduces the synchronizing effect of dispersal in predator-prey metapopulations. *Ecology* **93**:1517-1524. DOI: 10.1890/11-0460.1

Simonis, J. L., D. Neuharth-Keusch†, and I. Hewson. 2012. Aquatic bacterial assemblage variability in the supra littoral zone of Appledore Island, Gulf of Maine. *FEMS Microbiology Ecology* **80**:501-508. DOI: 10.1111/j.1574-6941.2012.01318.x

Capps, K. A., M. T. Booth, S. M. Collins, M. A. Davison, J. M. Moslemi, R. W. El-Sabaawi, J. L. Simonis, and A. S. Flecker. 2011. Nutrient diffusing substrata: a field comparison of commonly used methods to assess nutrient limitation. *Journal of the North American Benthological Society* **30**:522-532. DOI: 10.1899/10-146.1

Hall, S. R., J. L. Simonis, R. M. Nisbet, A. J. Tessier, and C. E. Cáceres. 2009. Resource ecology of virulence in a planktonic host-parasite system: an explanation using dynamic energy budgets. *American Naturalist* **174**:149-162. DOI: 10.1086/600086

Hall, S. R., C. Becker, J. L. Simonis, M. A. Duffy, A. J. Tessier, and C. E. Cáceres. 2009. Friendly competition: evidence for a dilution effect among competitors in a planktonic host-parasite system. *Ecology* **90**:791-801. DOI: 10.1890/08-0838.1

Simonis, J. L., H. A. Raja, and C. A. Shearer. 2008. Extracellular enzymes and soft-rot decay: are ascomycetes important degraders in freshwater? *Fungal Diversity* **31**:135-146. EID: 2-s2.0-53549129355

Technical Reports

Simonis, J. L. 2020. Crescent Dunes Solar Project avian mortality analyses with multi-year rates. Prepared for Great Basin Bird Observatory. DAPPER Stats, Portland, OR. 12 pp.

Simonis, J. L. and M. L. Larsen. 2020. American Wind Wildlife Information Center Analysis Software. Prepared for American Wind Wildlife Institute. DAPPER Stats, Portland, OR. 6 pp.

Flaherty, R. J., L. K. Caldwell, D. Bingham, L. Belcher, J. L. Simonis, C. R. Contor, and M. Sheoships. 2020. Juvenile steelhead and chinook production and smolt survival. 2019 Annual Progress Report for the Umatilla Basin Natural Production Monitoring and Evaluation Project. Prepared for the Confederated Tribes of the Umatilla Indian Reservation. Cramer Fish Sciences, Gresham, OR. 39 pp.

Simonis, J. L. 2019. American Wind Wildlife Information Center Analysis Framework. Prepared for American Wind Wildlife Institute. DAPPER Stats, Portland, OR. 13 pp.

Simonis, J. L. 2019. Mesquite effects on understory plants. Prepared for Dr. Elise Gornish, University of Arizona. DAPPER Stats, Portland, OR. 13 pp.

Simonis, J. L. 2019. Pinyon Jay site selection analyses. Prepared for US Forest Service and Great Basin Bird Observatory. DAPPER Stats, Portland, OR. 12 pp.

Simonis, J. L. 2019. Crescent Dunes Solar Project avian mortality analyses. Prepared for Great Basin Bird Observatory. DAPPER Stats, Portland, OR. 10 pp.

Simonis, J. L. 2019. Bendire's and Le Conte's thrasher territory site selection analysis. Prepared for Great Basin Bird Observatory. DAPPER Stats, Portland, OR. 8 pp.

Simonis, J. L. 2019. Population viability analysis modeling to support releases of sihek (*Todiramphus cinnamominus*). Prepared for Division of Aquatic & Wildlife Resources, Department of Agriculture, Government of Guam. DAPPER Stats, Portland, OR. 12 pp.

Caldwell, L. K., J. L. Simonis, C. R. Contor, and M. Sheoships. 2019. Juvenile steelhead and chinook production and smolt survival. 2018 Annual Progress Report for the Umatilla Basin Natural Production Monitoring and Evaluation Project. Prepared for the Confederated Tribes of the Umatilla Indian Reservation. Cramer Fish Sciences, Gresham, OR. 46 pp.

Simonis, J. L. 2018. Statistical Review of Quantitative Vegetation Monitoring. Prepared for The Freshwater Trust. DAPPER Stats, Portland, OR. 16 pp.

Dalthorp, D., L Madsen, M. Huso, R. Wolpert, P. Rabie, J. Studyvin, J. L. Simonis, and J. Mintz. 2018. GenEst Statistical Models—A Generalized Estimator of Mortality. United States Geological Survey: Techniques and Methods:7-A2. 22 pp. DOI: 10.3133/tm7A2

Simonis, J. L., M. Huso, D. Dalthorp, J. Mintz, L. Madsen, P. Rabie, and J. Studyvin. 2018. GenEst User Guide—Software for a Generalized Estimator of Moraltiy. United States Geological Survey: Techniques and Methods:7-C19. 84 pp. DOI: 10.3133/tm7C19

Simonis, J. L. 2018. Crescent Dunes Solar Project Avian Mortality Analyses. Prepared for Great Basin Bird Observatory. DAPPER Stats, Portland, OR. 11 pp.

Simonis, J. L. 2018. Kawailoa Wind Farm fatality estimation evaluation. Prepared for Tetra Tech, Inc. DAPPER Stats, Portland, OR. 3 pp.

Simonis, J. L. 2018. Pinyon Jay Nest Site Selection Analyses. Prepared for Great Basin Bird Observatory. DAPPER Stats, Portland, OR. 13 pp.

Caldwell, L. K., J. L. Simonis, C. R. Contor, and M. Sheoships. 2018. Juvenile steelhead and chinook production and smolt survival. 2017 Annual Progress Report for the Umatilla Basin Natural Production Monitoring and Evaluation Project. Prepared for the Confederated Tribes of the Umatilla Indian Reservation. Cramer Fish Sciences, Gresham, OR. 55 pp.

Simonis, J. L. 2017. Crescent Dunes Solar Project Avian Use and Mortality Analyses. Prepared for Great Basin Bird Observatory. DAPPER Stats, Portland, OR. 18 pp.

Simonis, J. L. 2017. Gunsight Fatality Estimation Analysis. Prepared for Tetra Tech, Inc. DAPPER Stats, Portland, OR. 3 pp.

Simonis, J. L. 2017. Clifton Court Forebay Predator Removal Consumption Analysis Methods. Prepared for Environmental Science Associates. DAPPER Stats, Portland, OR. 4 pp.

Simonis, J. L. 2017. Estimation of Fatalities at Renewable Wind Facilities. Prepared for United States Fish and Wildlife Service. DAPPER Stats, Portland, OR. 159 pp.

Merz, J. E., L. K. Caldwell, and J. L. Simonis. 2017. Dry Creek Temperature Modeling and Bioenergetics Report. Prepared for Environmental Science Associates. Cramer Fish Sciences, Gresham, OR. 50 pp.

Caldwell, L. K., J. L. Simonis, C. R. Contor, and M. Sheoships. 2016. Juvenile steelhead and chinook production and smolt survival. 2016 Annual Progress Report for the Umatilla Basin Natural Production Monitoring and Evaluation Project. Prepared for the Confederated Tribes of the Umatilla Indian Reservation. Cramer Fish Sciences, Gresham, OR. 40 pp.

Stroud, D. and J. L. Simonis. 2016. Clifton Court Forebay Predator Study: Bioenergetics Feasibility and Sensitivity Analysis. Cramer Fish Sciences, Gresham, OR. 38 pp.

Simonis, J. L., S. Zeug, and K. Ross. 2016. Estimating Loss of Chinook Salmon and Natural-Origin steelhead at the Central Valley Project and State Water Project. Prepared for California Department of Water Resources. Cramer Fish Sciences, Gresham, OR. 62 pp.

Faust, L., J. L. Simonis, R. Harrison, W. Waddell, and S. Long. 2016. Red Wolf (*Canis rufus*) Population Viability Analysis. Prepared for US Fish and Wildlife Service. Lincoln Park Zoo, Chicago, IL. 62 pp.

Caldwell, L. K., J. L. Simonis, F. Carpenter, and L. Belcher. 2016. North Pacific Fisheries Management Council High Seas Coded Wire Tag Database Overhaul. Prepared for North Pacific Fisheries Management Council. Cramer Fish Sciences, Gresham, OR. 25 pp.

Caldwell, L. K., S. Cramer, J. L. Simonis, L. Belcher, and F. Carpenter. 2015. Drift Creek cutthroat trout rearing capacity analysis. Prepared for Integrated Water Solutions, LLC. Cramer Fish Sciences, Gresham, OR. 24

pp.

Cramer, S. P., K. Sellheim, P. J. Haverkamp, K. Ceder, and J. L. Simonis. 2015. Lassen Lodge hydroelectric project: fish habitat survey and capacity modeling final report, South Fork Battle Creek. Prepared for Rugraw, LLC. Cramer Fish Sciences, Gresham, OR. 88 pp.

Johnson, B. J., J. L. Simonis, B. Bahner, P. Schultz, and R. Sweeney. 2015. Guam Kingfisher AZA Animal Program Population Viability Analysis Report. Association of Zoos and Aquariums. Lincoln Park Zoo, Chicago, IL. 29 pp.

Simonis, J. L., L. J. Faust, R. B. Harrison, S. T. Long, D. R. Rabon Jr., and W. T. Waddell. 2015. Red Wolf AZA Animal Program Population Viability Analysis Report. Association of Zoos and Aquariums. Lincoln Park Zoo, Chicago, IL. 30 pp.

Simonis, J. L., E. Reynolds, P. M. Stevens, C. R. Contor, and M. Sheoships. 2015. Juvenile steelhead and chinook production and smolt survival. 2015 Annual Progress Report for the Umatilla Basin Natural Production Monitoring and Evaluation Project. Prepared for the Confederated Tribes of the Umatilla Indian Reservation. Cramer Fish Sciences, Gresham, OR. 45 pp.

SOFTWARE

Applications

Dalthorp, D., J. L. Simonis, M. Huso, L. Madsen, P. Rabie, J. Mintz, R. Wolpert, J. Studyvin, and. F. Korner-Nievergelt. 2018. GenEst: Generalized Mortality Estimator. Web Application v1.3.1. URL

Simonis, J. L., S. Zeug, and K. Ross. 2017. Loss Calculator: Estimating Loss of Chinook Salmon and Natural-Origin Steelhead at the Central Valley Project and State Water Project. Web Application v0.1.0. URL

Packages

Simonis, J. L. and M. L. Larsen. 2020. American Wind Wildlife Information Center Analyses. R Software Package. v.1.0.0.

Simonis, J. L. 2020. accessor. Access Access Databases without Access to Access. bash and R Software Package. v.0.4.1. DOI: 10.5281/zenodo.3611911.

Simonis, J. L. 2020. salvage: tools for the California Delta Fish Salvage Database. bash and R Software Package. v.0.8.0. DOI: 10.5281/zenodo.3628045.

Simonis, J. L., E. M. Christensen, D. J. Harris, R. M. Diaz, H. Ye, E. P. White, and S. K. M. Ernest. 2019. LDATS. R Software Package. v.0.2.5. DOI: 10.5281/zenodo.3286117. CRAN

Simonis, J. L. 2019. gendrendr. R Software Package. v.0.1.4. DOI: 10.5281/zenodo.3525595

Simonis, J. L., G. M. Yenni, E. K. Bledsoe, E. M. Christensen, S. D. Taylor, H. Ye., E. P. White, and S. K. M. Ernest. 2019. portalcasting. R Software Package. v.0.17.0. DOI: 10.5281/zenodo.3332973

Ye, H., E. K. Bledsoe, E. M. Christensen, R. Diaz, S. K. M. Ernest, J. L. Simonis, E. P. White, and G. M. Yenni. 2019. Macroecological Analyses of Time Series Structure. R Software Package. v0.1.2. DOI: 10.5281/zenodo.3333008

Yenni, G. M., H. Ye, E. Christensen, J. L. Simonis, E. K. Bledsoe, R. M. Diaz, S. D. Taylor, E. P. White, and S. K. M. Ernest. 2019. portalr. R Software Package. v.0.3.0. DOI: 10.5281/zenodo.1429290. CRAN

Dalthorp, D., J. L. Simonis, M. Huso, L. Madsen, P. Rabie, J. Mintz, R. Wolpert, J. Studyvin, and. F. Korner-Nievergelt. 2018. GenEst: Generalized Mortality Estimator. R Software Package. v1.4.0.1. DOI: 10.5066/P9O9BATL. CRAN

PRESENTATIONS

Invited Presentations

Ecological Society of America: 2013, 2016, 2020

Interagency Ecological Program Data Science Project Working Team: 2020

Ecological Forecasting Initiative: 2019

Science Seminar Series, Washington State University-Vancouver: 2019

American Fisheries Society (OR Chapter): 2019

Women in Marine Sciences, Oregon State University: 2017

Department of Forestry and Natural Resources, Purdue University: 2015

Graduate Student Union and Gender Studies Department, University of Notre Dame: 2014

Conservation and Science Department, Lincoln Park Zoo: 2014

Department of Biology, University of South Dakota: 2013

Contributed Presentations

Hairston Hoopla, Cornell University: 2019

R Ladies: Gainesville (FL): 2019

Carpentries Research Bazaar, University of Florida: 2018

Ecological Society of America: 2008, 2011, 2012, 2015, 2016, 2017, 2018

Urban Ecology and Conservation Symposium: 2016

Red Wolf Species Survival Plan Working Group Annual Meeting: 2014, 2015

International Urban Wildlife Conference: 2015

Association of Zoos and Aquariums: 2013, 2014, 2015

The Wildlife Society: 2014

North American Congress for Conservation Biology: 2012

Department of Ecology and Evolutionary Biology, Cornell University: 2008, 2009, 2010, 2011, 2012

Heiserfest, Shoals Marine Laboratory: 2012

Frontiers in the Life Sciences, Cornell University: 2012

Biogeochemistry and Environmental Biocomplexity Program, Cornell University: 2009, 2010, 2011

Ninth International Symposium on Cladocera: 2011

American Society for Limnology and Oceanography: 2010

Celebration of a Centennial of Limnology, Cornell University: 2009

Mycological Society of America: 2006

PROFESSIONAL ACTIVITIES

Peer Reviews

Auk, American Naturalist, *Ecology Letters*, *Ecology and Evolution*, *Ecosphere*, *Freshwater Science*, *Frontiers in Marine Science*, *Hydrobiologia*, *Journal of Ecology, Proceedings of the Royal Society B: Biological Sciences*, *Royal Society Open Science*, United States Geological Survey, *Zoo Biology*

Society Memberships

American Society for Limnology and Oceanography, Association of Zoos and Aquariums, Ecological Society of America, Sigma Xi, Society for Conservation Biology, The Wildlife Society

Board and Committee Positions

Rowan Institute [Fiduciary Board Member]: 2019-Present

500 Women Scientists [Leadership Board Member, Portland Pod Member]: 2018-Present

Cornell University Gay and Lesbian Alumni Association [Board Member, Participation Committee Co-Chair]: 2016-2018

United States Fish and Wildlife Service Micronesian Kingfisher Species Recovery Committee: 2014-2016

Small Population Management Advisory Group, Association of Zoos and Aquariums: 2013-2016

Research Committee, Lincoln Park Zoo: 2013-2015

Student Library Advisory Council, Cornell University: 2011-2012

Biogeochemistry and Environmental Biocomplexity Seminar Committee, Cornell University [Chair]: 2009-2012
Department of Ecology and Evolutionary Biology Graduate Student Association, Cornell University: 2007-2012
Biogeochemistry and Biocomplexity Graduate Student Association, Cornell University: 2007-2012

Additional Service

oSTEM (out in STEM) Mentorship Program [Mentor]: 2019-Present
Rose City Rollers (Non-Profit), Inc. [Junior Team Coach, Trainer, Training Committee Member]: 2015-Present
Skype-A-Scientist [Participant]: 2019
Portland Public School Board Candidate [Zone 6]: 2017
ESA SEEDS (Strategies for Ecology, Education, Diversity, and Sustainability) [Mentor]: 2016, 2017
Oregon Metro: Nature-in-Neighborhoods Restoration Grants [Reviewer]: 2016
Purdue University Transgender Day of Remembrance Keynote Speaker: 2015
Diversity and Inclusion Employee Taskforce, Lincoln Park Zoo [Founding Member]: 2014-2015
Windy City Rollers (Non-Profit), Inc. [Trainer, Training Committee Co-Chair]: 2013-2015
Trans, Gender-Non-Conforming, and Intersex Athlete Network [Founder]: 2013
Planned Parenthood Transgender Youth Support Group, Ithaca, NY [Mentor]: 2012
Peer Educators of Gender and Sexuality, Cornell University: 2012
EnviroMentors Mentoring Program, Cornell University: 2011-2012
Expanding Your Horizons Conference, Cornell University [Volunteer]: 2010-2012
Floating Classroom, Ithaca, NY [Volunteer]: 2010-2012
Quantitative Biology with R Lunch Bunch [Coordinator]: 2008-2012
Biogeochemistry and Biocomplexity Grant Reviewer, Cornell University: 2008-2012
Campus-to-Coast Program, Cornell University [Volunteer]: 2007
Students for Environmental Concerns, University of Illinois: Urbana-Champaign [Environmental Education Chair]: 2004-2006

RESEARCH FUNDING

Competitive Research Grants and Fellowships

2019 National Science Foundation, Long-Term Research in Environmental Biology; Senior Personnel and co-author [$637,157]
2011-2012 National Science Foundation, Doctoral Dissertation Improvement Grant 1110545; Co-PI [$14,773]
2010 A.W. Mellon Foundation, Research Grant [$1,500]
2009 Sigma Xi, Research Grant [$800]
2008-2011 Cornell University Program in Biogeochemistry and Environmental Biocomplexity, Research Grants [total $15,000]
2008-2011 Shoals Marine Laboratory, Summer Research Awards [total $10,000]
2008-2009 Cornell Department of Ecology and Evolutionary Biology, Research Awards [total $1,250]
2007-2012 National Science Foundation, Graduate Research Fellowship [$178,500]

Research Contracts

2020-2022 Tetra Tech, Effect of Turbine Size
2020-2021 University of Florida, Forecasting Rodent and Plant Dynamics
2020-2021 University of Florida, Data-intensive Ecological Forecasting
2019-2020 American Wind Wildlife Institute, American Wind Wildlife Information Center
2019-2020 Cramer Fish Sciences, Long-term Smelt and Silverside Interactions
2019-2020 Cramer Fish Sciences, Multihabitat Aquatic Sampling Platform Analysis

2019-2020 University of Wyoming, ATTA Project Public Database
2019-2020 Virginia Commonwealth University, Phenological Impacts of Hurricane Maria
2019 Cramer Fish Sciences, Umatilla Smolt Outmigration
2019 University of Arizona, Impacts of Lehmann Lovegrass on Agave
2019 University of Arizona, Analysis of Mesquite Impacts on Understory Plants
2019 Great Basin Bird Observatory, Avian Mortality and Crescent Dunes Solar Project
2018- Freshwater Trust, Monitoring Site Selection Model
2018- REEF, Embedded Assessment of Public Participation in Reef Fish Surveys
2018-2019 Great Basin Bird Observatory, Thrasher Territory Analysis
2018-2019 US Forest Service & Great Basin Bird Observatory, Pinyon Jay Site Selection Analyses
2018-2019 Great Basin Bird Observatory, Waterbird Trend Analysis
2018 Cramer Fish Sciences, Umatilla Smolt Outmigration
2018 Great Basin Bird Observatory, Avian Mortality and Crescent Dunes Solar Project
2018 Tetra Tech, Kawailoa Wind Farm Fatality Estimation Evaluation
2017-2018 Bat Conservation International, Development of a Generalized Estimator of Bird and Bat Fatality at Renewable Energy Facilities
2017-2018 Freshwater Trust, Snake River Vegetation Monitoring Plan Evaluation
2017-2018 Great Basin Bird Observatory, Pinyon Jay Habitat Use and Nesting Analysis
2017 Tetra Tech, Gunsight Wind Energy Project Analysis
2017 Cramer Fish Sciences, Umatilla Smolt Outmigration
2017 Environmental Science Associates, Clifton Court Forebay Predator Removal Bioenergetics
2017 Great Basin Bird Observatory, Evaluation of BLM Vegetation Survey Data
2017 Great Basin Bird Observatory, Avian Use and Mortality and Crescent Dunes Solar Project
2017 Great Basin Bird Observatory, Road-Based Survey Population Estimator Evaluation
2016-2019 Cramer Fish Sciences, Delta Smelt Population Distribution Modeling
2016-2017 US Fish and Wildlife Service, Estimating Project-Specific Mortality Estimates from Post-Construction Survey Data and Refinement of Eagle Bayesian Risk Model
2016 Cramer Fish Sciences, Clifton Court Forebay Predator Bioenergetics
2016 Cramer Fish Sciences, Umatilla Smolt Outmigration
2016 Cramer Fish Sciences, Dry Creek Temperature Modeling
2015-2017 Guam Department of Agriculture, Population Viability Analysis (PVA) Modeling to Support Releases of Sihek (*Todiramphus cinnamominus*)
2015-2017 Lincoln Park Zoo, Red Wolf Population Viability Analysis

Travel Grants

2012 Society for Conservation Biology, Graduate Student Travel Grant [$500]
2011 Cornell Department of Ecology and Evolutionary Biology, Orenstein Award [$750]
2011 Ninth International Symposium on Cladocera, Graduate Student Travel Grant [$700]
2010 Cornell University Graduate School, Research Travel Grant [$2,000]
2008-2012 Cornell University Graduate School, Conference Grants [total $1,600]

AWARDS AND RECOGNITION

2019 Women's Flat Track Derby Association, Champion [Rose City Rollers' Wheels of Justice]
2018 Women's Flat Track Derby Association, Champion [Rose City Rollers' Wheels of Justice]
2018 Distinguished Alumna, Mundelein High School
2017 Women's Flat Track Derby Association, Runner-Up [Rose City Rollers' Wheels of Justice]
2016 Women's Flat Track Derby Association, Champion [Rose City Rollers' Wheels of Justice]

2015 Women's Flat Track Derby Association, Champion [Rose City Rollers' Wheels of Justice]

2015 United States Trans100 Honoree [Excellence in Service to the Transgender Community]

2014 Lamont C. Cole Award [Outstanding Graduate Student Publication], Department of Ecology and Evolutionary Biology, Cornell University

2011 Robert H. Whittaker Award [Outstanding Graduate Student Presentation], Department of Ecology and Evolutionary Biology, Cornell University

2011 1st Place, Harry W. Greene Grilled Cheese Competition, Department of Ecology and Evolutionary Biology, Cornell University

2006 Bronze Tablet and *Summa Cum Laude* [University Honors] University of Illinois: Urbana-Champaign

2006 Harriett Long Award [Outstanding Undergraduate Research], School of Integrative Biology, University of Illinois: Urbana-Champaign

2006 Thesis Honors with High Distinction, School of Integrative Biology, University of Illinois: Urbana-Champaign