

# DR. JUNIPER L. SIMONIS

Quantitative & Computational Conservation Biologist

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## EDUCATION

PhD Ecology and Evolutionary Biology, Cornell University 2013  
BS Integrative Biology, University of Illinois: Urbana-Champaign 2006

## PROFESSIONAL POSITIONS

State of Oregon Department of Human Services & Health Authority  
Research Forecaster, Office of Forecasting Research and Analysis 2023 – Present

Chemical Weapons Research Center  
Founder, Executive Director 2020 – Present

Reclaiming STEM Institute  
Board of Directors Member 2019 – Present

DAPPER Stats  
Founder, Owner, Lead Scientist 2015 – Present

500 Women Scientists  
Advisory Board Member 2021 – Present  
Leadership Board Member 2015 – 2021

University of Florida  
*Weecology Laboratory*  
Collaborating Researcher 2019 – Present  
Data Analyst 2017 – 2019

Cornell University Gay and Lesbian Alumni Association  
Board Member 2016 – 2018

Lincoln Park Zoo  
*Alexander Center for Applied Population Biology*  
Adjunct Scientist 2015 – Present  
Research Scientist 2015  
Postdoctoral Fellow 2013 – 2015  
*Urban Wildlife Institute*  
Adjunct Scientist 2014 – Present  
*Diversity and Inclusion Employee Task Force*  
Founding Member 2014 – 2015

Edanz Editing  
Expert Language Editor 2016 – 2017

Cramer Fish Sciences  
Biometrician 2015 – 2016

United States Fish and Wildlife Service  
Micronesian Kingfisher Recovery Committee Member 2014 – 2016

Cornell University  
*Cornell University Library*

Student Library Advisory Council Member	2011 – 2012
<i>Department of Ecology and Evolutionary Biology</i>	
National Science Foundation Graduate Research Fellow	2007 – 2013
Graduate Student Association Member	2007 – 2013
<i>Biogeochemistry and Environmental Biogeocomplexity Program</i>	
Seminar Committee Chair	2009 – 2012
Graduate Student Association Member	2007 – 2012
Florida State University	
<i>Underwood Laboratory</i>	
Research Technician	2006 – 2007
University of Illinois: Urbana-Champaign	
<i>Shearer Laboratory</i>	
Independent Undergraduate Researcher	2005 – 2006
<i>Suarez Laboratory</i>	
Research Assistant	2005 – 2006
<i>Cáceres Laboratory &amp; The Kellogg Biological Station</i>	
Research Experiences for Undergraduates Scientist	2005

## TEACHING, ADVISING, AND SUPERVISING

### Workshops

Statistics and Coding for Resource Managers	2018
Science Coding in the Middle School Classroom	2016
Quantitative Biology with R Lunch Bunch	2010 – 2012
Introduction to Programming in R for Ecologists	2010

### Course Instructor

Ecological Design and Analysis Using R	2010, 2011
Writing in the Majors for Evolutionary Biology	2009

### Teaching Assistant

Evolutionary Biology and Diversity [Lecture and Laboratory]	2012
Limnology [Lecture and Laboratory]	2012

### Advisor

Lincoln Park Zoo Population Biology Internship	2014
Kara Pellowe, Cornell University Undergraduate, BS with High Honors	2012
Shoals Marine Laboratory Research Internships in Field Sciences	2010, 2011

### Manager

DAPPER Stats	2020
Lincoln Park Zoo, Alexander Center	2014 – 2015
Shoals Marine Laboratory Research Internships in Field Sciences	2010, 2011

### Mentor

oSTEM (out in STEM)	2019
ESA SEEDS (Strategies for Education, Diversity, and Sustainability)	2016, 2017
Planned Parenthood Transgender Youth Support Group, Ithaca NY	2012
Cornell University Peer Educators of Gender and Sexuality	2012
Cornell University EnviroMentors Mentoring Program	2011 – 2012
Floating Classroom, Ithaca NY	2010 – 2012
Expanding Your Horizons Conference Volunteer	2010, 2011, 2012
Shoals Marine Laboratory Research Internships in Field Sciences	2010, 2011
Cornell University Campus-to-Coast	2007

### Coach

Rose City Rollers Trainer & Training Committee Member	2015 – Present
Rose City Rollers Junior Travel Team Head Coach	2016 – 2017
Windy City Rollers Trainer & Training Committee Co-Chair	2013 – 2015

## AFFILIATIONS

@iamscomm; 500 Women Scientists Portland Pod; American Society for Limnology and Oceanography; Association of Zoos and Aquariums; Chemical Weapons Research Consortium; Ecological Forecasting Initiative; Ecological Society of America; Ithaca League of Women Rollers; R-Ladies; oSTEM; Out in Tech; Police Brutality 2020 Tracker; Rose City Rollers; Sigma Xi; Society for Conservation Biology; Skype-A-Scientist; Small Population Management Advisory Group (Association of Zoos and Aquariums); The Wildlife Society; Trans, Gender-Non-Conforming, and Intersex Athlete Network; Willamette Riverkeeper; Windy City Rollers

## SCIENTIFIC PEER REVIEW

Associate Editor

*Ecological Solutions and Evidence*

2020 – 2023

Manuscript Referee

*Auk*, *American Naturalist*, *Citizen Science: Theory and Practice*, *Ecological Applications*, *Ecological Informatics*, *Ecology Letters*, *Ecology and Evolution*, *Ecosphere*, *Freshwater Science*, *Frontiers in Marine Science*, *Hydrobiologia*, *Journal of Ecology*, *Limnology and Oceanography*, *Proceedings of the Royal Society B: Biological Sciences*, *ReScience C*, *Royal Society Open Science*, *Scientific Reports*, United States Geological Survey, *Zoo Biology*

Review Boards

Oregon Metro Nature-in-Neighborhoods Restoration Grant Review Committee

2016

Lincoln Park Zoo Research Committee

2013 – 2015

Cornell University Biogeochemistry and Biocomplexity Grant Review Panel

2008 – 2012

## PUBLICATIONS<sup>†</sup>

Scientific Manuscripts and Technical Reports

- Buckley, L., B. Briones Ortiz, I. Caruso, A. John, O. Levy, A. V. Meyer, E. A. Riddell, Y. Sakari, and J. L. Simonis. 2023. TrenchR: An R package for modular and accessible microclimate and biophysical ecology. *PLoS Climate* **2**: e0000139. [DOI: 10.1371/journal.pclm.0000139](https://doi.org/10.1371/journal.pclm.0000139)
- Dumandan P. K. T, J. L. Simonis, G. M. Yenni, S. K. M. Ernest, E. P. White. *Accepted*. Transferability of ecological forecasting models to novel biotic conditions in a long-term experimental study. *Ecology*.
- Garvin, J. C., J. L. Simonis, J. L. Taylor. 2024. Does size matter? Investigation of the effect of wind turbine size on bird and bat mortality. *Biological Conservation* **291**: 110474. [DOI: 10.1016/j.biocon.2024.110474](https://doi.org/10.1016/j.biocon.2024.110474).
- Simonis, J. L., G. M. Yenni, E. K. Bledsoe, E. M. Christensen, H. Senyondo, S. D. Taylor, H. Ye, E. P. White, and S. K. M. Ernest. 2022. portalcasting: Supporting automated forecasting of rodent populations. *Journal of Open Source Software* **7** (72):3220. [DOI: 10.21105/joss.03220](https://doi.org/10.21105/joss.03220).
- Merz, J. E. M. J. Camp, J. L. Simonis, and W. Thorpe. 2021 A new method for standardizing inland fish community surveys: characterizing habitat features controlling small-bodied fish species, abundance, and size distributions in a highly modified estuary. *Frontiers in Environmental Science: Conservation and Restoration Ecology*. [DOI: 10.3389/fenvs.2021.698210](https://doi.org/10.3389/fenvs.2021.698210).
- Duren, O., J. L. Simonis, M. L. Larsen, E. L. Hohn, and E. Cheng. 2021. Vegetation monitoring approach selection procedure. Prepared for Idaho Power Company. The Freshwater Trust, OR, 51 pp.
- Garvin, J. and J. L. Simonis. 2021 Bat fatality rate overlap analysis. Prepared for Red Horse Wind 2, LLC. Tetra Tech, Portland OR, 10 pp.
- Simonis, J. L. 2021. Thermal Fogger: An Imperial Tetherball. *Zenodo*. [Web Book. DOI: 10.5281/zenodo.4850406](https://doi.org/10.5281/zenodo.4850406)
- Simonis, J. L., E. P. White, and S. K. M. Ernest. 2021. Evaluating probabilistic ecological forecasts. *Ecology* **102**:e03431. [DOI: 10.1002/ecy.3431](https://doi.org/10.1002/ecy.3431).
- Simonis, J. L. 2021. Federal agents use ZnCl<sub>2</sub> gas against Black Lives Matter protesters. *Zenodo*. [DOI: 10.5281/zenodo.4059329](https://doi.org/10.5281/zenodo.4059329)
- Feds used toxic smoke grenades during summer protests in Portland, researcher finds. K. Williams. *The Oregonian* and *The Columbian*. January 19, 2021. [Oregon Live](https://www.oregonlive.com/news/oregonian/the-columbian/2021/01/19/feds-used-toxic-smoke-grenades-during-summer-protests-in-portland-researcher-finds/) and [The Columbian](https://www.columbian.com/news/2021/01/19/feds-used-toxic-smoke-grenades-during-summer-protests-in-portland-researcher-finds/).
- Scientists Identified a Green, Poisonous Gas Used By Federal Agents on Portland Protesters. L. Peskoe-Yang. *Future Human*. December 6, 2020. [Medium](https://www.futurehuman.com/scientists-identified-a-green-poisonous-gas-used-by-federal-agents-on-portland-protesters/).
- Sinister Smoke. C. Vaughn. *Portland Tribune*. October 20, 2020. [Pamplin Media](https://www.pamplinmedia.com/portland-tribune/sinister-smoke).
- Federal Agents Used Toxic Chemical Smoke Grenades in Portland. S. Lerner. *The Intercept*. October 10, 2020. [The Intercept](https://theintercept.com/2020/10/10/federal-agents-used-toxic-chemical-smoke-grenades-in-portland/).
- What Tear Gas Does To Fish. B. Owens. *Hakai Magazine*. September 23, 2020. [Hakai Magazine](https://www.hakaimagazine.com/what-tear-gas-does-to-fish/).
- Murray, M. M. Fidino, E. Lehrer, J. L. Simonis, and S. B. Magle. 2021. An integrated occupancy model to non-invasively monitor visible signs of wildlife health with camera traps. *Journal of Animal Ecology* **90**:1973-1984 [DOI: 10.1111/1365-2656.13515](https://doi.org/10.1111/1365-2656.13515).
- New, L., J. L. Simonis, M. C. Otto, E. R. Bjerre, M. C. Runge, and B. A. Millsap. 2021. Adaptive management to improve eagle conservation at terrestrial wind facilities. *Conservation Science and Practice* **3**:e449. [DOI: 10.1111/csp2.449](https://doi.org/10.1111/csp2.449).

- Gornish, E. S., H. Ganjurjav, M. Liang, J. L. Simonis, and M. P. McClaran. 2021. Identifying restoration opportunities beneath native mesquite canopies. *Restoration Ecology* **29**: e13334. [DOI: 10.1111/rec.13334](https://doi.org/10.1111/rec.13334).
- Simonis, J. L. 2021. vmstool. Vegetation Monitoring Site Selection Tool Statistical Model. Prepared for The Freshwater Trust. DAPPER Stats, Portland OR, 7 pp.
- Simonis, J. L. 2021. Analysis of Interannual Variation in Lambda. Prepared for Tetra Tech. DAPPER Stats, Portland OR, 7 pp.
- Flaherty, R. J., L. K. Caldwell, D. Bingham, L. Belcher, J. L. Simonis, C. R. Contor, J. Bonifer, 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. [DOI: 10.5281/zenodo.3902416](https://doi.org/10.5281/zenodo.3902416).
- 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](https://doi.org/10.1101/2020.04.16.044750).
- Simonis, J. L. 2020. Measuring the strength of vegetational seasonality. Prepared for Dr. Catherine Hulshof, Virginia Commonwealth University. DAPPER Stats, Portland, OR. 25 pp. [DOI: 10.5281/zenodo.3902400](https://doi.org/10.5281/zenodo.3902400).
- 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. [DOI: 10.5281/zenodo.3902406](https://doi.org/10.5281/zenodo.3902406).
- 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. [DOI: 10.5281/zenodo.3902412](https://doi.org/10.5281/zenodo.3902412).
- 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. [DOI: 10.5281/zenodo.3922869](https://doi.org/10.5281/zenodo.3922869).
- 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](https://doi.org/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](https://doi.org/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](https://doi.org/10.1111/2041-210X.13117)
- Simonis, J. L. 2019. American Wind Wildlife Information Center Analysis Framework. Prepared for American Wind Wildlife Institute. DAPPER Stats, Portland, OR. 13 pp. [DOI: 10.5281/zenodo.3902420](https://doi.org/10.5281/zenodo.3902420).
- Simonis, J. L. 2019. Mesquite effects on understory plants. Prepared for Dr. Elise Gornish, University of Arizona. DAPPER Stats, Portland, OR. 12 pp. [DOI: 10.5281/zenodo.3902426](https://doi.org/10.5281/zenodo.3902426).
- 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. [DOI: 10.5281/zenodo.3902896](https://doi.org/10.5281/zenodo.3902896).
- Simonis, J. L. 2019. Crescent Dunes Solar Project avian mortality analyses. Prepared for Great Basin Bird Observatory. DAPPER Stats, Portland, OR. 10 pp. [DOI: 10.5281/zenodo.3902908](https://doi.org/10.5281/zenodo.3902908).
- 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. [DOI: 10.5281/zenodo.3922815](https://doi.org/10.5281/zenodo.3922815).
- 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. [DOI: 10.5281/zenodo.3922863](https://doi.org/10.5281/zenodo.3922863).
- 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](https://doi.org/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](https://doi.org/10.1111/2041-210X.13104)
- 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. [DOI: 10.5281/zenodo.3923005](https://doi.org/10.5281/zenodo.3923005).
- 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](https://doi.org/10.3133/tm7A2).
- [Simonis, J. L.](#) 2018. Crescent Dunes Solar Project Avian Mortality Analyses. Prepared for Great Basin Bird Observatory. DAPPER Stats, Portland, OR. 11 pp. [DOI: 10.5281/zenodo.3902910](https://doi.org/10.5281/zenodo.3902910).
- [Simonis, J. L.](#) 2018. Kawaihoa Wind Farm fatality estimation evaluation. Prepared for Tetra Tech, Inc. DAPPER Stats, Portland, OR. 3 pp. [DOI: 10.5281/zenodo.3922886](https://doi.org/10.5281/zenodo.3922886).
- [Simonis, J. L.](#) 2018. Pinyon Jay Nest Site Selection Analyses. Prepared for Great Basin Bird Observatory. DAPPER Stats, Portland, OR. 13 pp. [DOI: 10.5281/zenodo.3923011](https://doi.org/10.5281/zenodo.3923011).
- [Simonis, J. L.](#) and Duren, O. 2018. Statistical Review of Quantitative Vegetation Monitoring. Prepared for The Freshwater Trust. DAPPER Stats, Portland, OR. 16 pp. [DOI: 10.5281/zenodo.3922878](https://doi.org/10.5281/zenodo.3922878).
- [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](https://doi.org/10.1002/jwmg.21397).  
JWM: Red wolf reintroduction on path toward extinction. *The Wildlife Society*. December 19, 2017. [The Wildlife Society](https://www.wildlifesociety.org/).
- [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 Mortality. United States Geological Survey: Techniques and Methods:7-C19. 84 pp. [DOI: 10.3133/tm7C19](https://doi.org/10.3133/tm7C19).
- 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. 47 pp. [DOI: 10.5281/zenodo.3922986](https://doi.org/10.5281/zenodo.3922986).
- [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. [DOI: 10.5281/zenodo.3902915](https://doi.org/10.5281/zenodo.3902915).
- [Simonis, J. L.](#) 2017. Gunsight Fatality Estimation Analysis. Prepared for Tetra Tech, Inc. DAPPER Stats, Portland, OR. 3 pp. [DOI: 10.5281/zenodo.3922997](https://doi.org/10.5281/zenodo.3922997).
- [Simonis, J. L.](#) 2017. Clifton Court Forebay Predator Removal Consumption Analysis Methods. Prepared for Environmental Science Associates. DAPPER Stats, Portland, OR. 4 pp. [DOI: 10.5281/zenodo.3922995](https://doi.org/10.5281/zenodo.3922995).
- [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. [DOI: 10.5281/zenodo.3922989](https://doi.org/10.5281/zenodo.3922989).
- Caldwell, L. K., S. Cramer, [J. L. Simonis](#), L. Belcher, and F. Carpenter. 2016. Drift Creek cutthroat trout rearing capacity analysis. Prepared for Integrated Water Solutions, LLC. Cramer Fish Sciences, Gresham, OR. 28 pp. [DOI: 10.5281/zenodo.3922929](https://doi.org/10.5281/zenodo.3922929).
- 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. [DOI: 10.5281/zenodo.3922980](https://doi.org/10.5281/zenodo.3922980).
- 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. [DOI: 10.5281/zenodo.3922942](https://doi.org/10.5281/zenodo.3922942).
- 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. [DOI: 10.5281/zenodo.3922951](https://doi.org/10.5281/zenodo.3922951).
- 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](https://doi.org/10.1007/s12237-016-0097-x).
- [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. [DOI: 10.5281/zenodo.3922960](https://doi.org/10.5281/zenodo.3922960).
- Stroud, D. and [J. L. Simonis](#). 2016. Clifton Court Forebay Predator Study: Bioenergetics Feasibility and Sensitivity Analysis. Cramer Fish Sciences, Gresham, OR. 38 pp. [DOI: 10.5281/zenodo.3922970](https://doi.org/10.5281/zenodo.3922970).
- 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. [DOI: 10.5281/zenodo.3922923](https://doi.org/10.5281/zenodo.3922923).
- Johnson, B. J., [J. L. Simonis](#), B. Bahner, A. Baltz, 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. [DOI: 10.5281/zenodo.3922913](https://doi.org/10.5281/zenodo.3922913).
- [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. [DOI: 10.5281/zenodo.3922913](https://doi.org/10.5281/zenodo.3922913).

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- 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](https://doi.org/10.1111/fwb.12337).
- Simonis, J. L. and J. C. Ellis. 2014. Bathing birds bias  $\beta$ -diversity: frequent dispersal by gulls homogenizes fauna in a rock-pool metacommunity. *Ecology* **95**:1545-1555. [DOI: 10.1890/13-1185.1](https://doi.org/10.1890/13-1185.1).
- Darwin was right. *The Economist*. April 12, 2014. [The Economist](https://www.economist.com).
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- Simonis, J. L. 2013. Predator ontogeny determines trophic cascade strength in freshwater rock pools. *Ecosphere* **4**:art62. [DOI: 10.1890/ES13-00019.1](https://doi.org/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](https://doi.org/10.1007/s10750-012-1268-9).
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#### Journalism Articles, Op-Eds, and Essays

- Simonis, J. L. 2021. Top US Chemical Weapons Company Selling Lethal Smoke as Non-Hazardous. *The Equation* 2021-10-14. Union For Concerned Scientists. [The Equation](https://www.theequation.org).
- Cheng, S. J., M. Zaringhalam, A. P. S. Carvalho, R. T. Barnes, G. Goldman, J. L. Simonis, M. Creary, S. C. Bodison, W. Bohon, P. Chakraborty, L. Edwards, S. Leath, A. R. Marklein, N. A. Williams, K. S. Ramirez, J. Zelikova, R. P. Caballero-Gill, A. Guatame-Garcia, A. Sanchez-Rios, and A. M. Porras. 2021. Moving scientific publishing toward social justice. *Inside Higher Ed* September 9, 2021. [Inside Higher Ed](https://www.insidehighered.com).
- Simonis, J. L. 2021. Safariland Promised to Stop Making Chemical Weapons—But Has It? *The Equation* 2021-08-13. Union For Concerned Scientists. [The Equation](https://www.theequation.org).
- Simonis, J. L. 2021. Pay no mind attention to the gross negligence behind the smoke. *We Out Here* 2021-03-23. [We Out Here](https://www.wouthere.com).
- Simonis, J. L. et al. 2020. Open Letter to Halt Use of Chemical Weapons. v.0.0.2. Chemical Weapons Research Consortium. [DOI: 10.5281/zenodo.3978769](https://doi.org/10.5281/zenodo.3978769).
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Simonis, J. L. 2013. The 2013 Trans 100 Chicago Launch Event: I Went, I Saw, They Inspired. *Autostraddle* 2013-04-16. [Autostraddle](#).

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## Legal Declarations

Simonis, J. L. 2021. Supplemental declaration of Juniper Simonis. Wolfe et al. v. City of Portland, et. al. Docket 3:20-cv-01822-SI, District Court D. Oregon, Document #93. 13 pp. [Court Listener RECAP Archive](#).

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Wolfe, P., K. Durden, M. Lewis, J. L. Simonis, and Disability Rights Oregon. 2020. Complaint for Declaratory, Injunctive Relief, and Damages. Wolfe et al. v. City of Portland, et. al. Docket 3:20-cv-01822-SI, District Court D. Oregon, Document #1. 66 pp. [Court Listener RECAP Archive](#).

## Photography and Videography

Simonis, J. L. 2021. South Waterfront neighborhood enveloped in CS gas and munitions smoke. Urban Ecosystem Research Consortium of Portland/Vancouver [Annual Conference Proceedings](#).

Simonis, J. L. 2021. Portland Police guard dumpster full of food at Fred Meyer. [Daily Mail](#). [Eater](#). [Fox News](#). [NBC News](#). [New York Times](#). [Now This News](#). [Real Talk with Ryan Jespersen](#). [The Young Turks](#). [Upworthy](#). [Vice News](#). [Yahoo! News Business Insider](#).

Simonis, J. L. 2020. Front row to Portland Police bull rush. [Reuters News](#).

## SOFTWARE

### Applications

Simonis, J. L. 2021. Portland Chemical Weapons Library. [Web Library](#).

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 v.1.3.1. [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 v.0.1.0. [URL](#).

### Packages

Buckley, L., B. Briones Ortiz, I. Caruso, A. John, O. Levy, A. Meyer, E. Riddell, Y. Sakari, and J. L. Simonis. 2022. TrenchR. R Software Package. v.0.1.0. [CRAN](#).

Simonis, J. L., G. M. Yenni, E. K. Bledsoe, E. M. Christensen, H. Senyondo. S. D. Taylor, H. Ye., E. P. White, and S. K. M. Ernest. 2021. portalcasting. R Software Package. v.0.42.0. [DOI: 10.5281/zenodo.3332973](#)

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. 2021. portalm. R Software Package. v.0.3.9. [DOI: 10.5281/zenodo.1429290](#). [CRAN](#)

Simonis, J. L., M. L. Larsen, E. Hohn, E. Cheng, and O. Duren. 2021. vmstool. Vegetation Monitoring Site Selection Tool. R Software Package v.0.1.0.

Dalthorp, D., J. L. Simonis, L. Madsen, M. Huso, P. Rabie, J. Mintz, R. Wolpert, J. Studyvin, and. F. Korner-Nievergelt. 2021. GenEst: Generalized Mortality Estimator. R Software Package. v1.4.6. [DOI: 10.5066/P9O9BATL](#). [CRAN](#).

Larsen, M. L., J. L. Simonis, and J. S. Waters. 2020. mavenR. R Software Package. v.1.0.0. [waterslab/mavenR](#).

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Simonis, J. L. 2020. salvage: tools for the California Delta Fish Salvage Database. bash and R Software Package. v.0.11.0. [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. 2020. LDATS. R Software Package. v.0.2.7. [DOI: 10.5281/zenodo.3286117](#). [CRAN](#)

- Simonis, J. L. and M. L. Larsen. 2020. *awwic*. American Wind Wildlife Information Center Analyses. R Software Package. v.1.0.0.
- Ye, H., E. K. Bledsoe, E. M. Christensen, R. Diaz, S. K. M. Ernest, J. L. Simonis, E. P. White, and G. M. Yenni. 2020. Macroecological Analyses of Time Series Structure. R Software Package. v.0.3.2. [DOI: 10.5281/zenodo.3333008](https://doi.org/10.5281/zenodo.3333008)
- Simonis, J. L. 2019. *gendrendr*. For enders of gender. R Software Package. v.0.1.4. [DOI: 10.5281/zenodo.3525595](https://doi.org/10.5281/zenodo.3525595)
- Simonis, J. L. 2018. *reveget*. Quantitative Vegetation Estimation for Water Quality Testing. R Software Package. v.0.0.1.

## PRESENTATIONS<sup>‡</sup>

### Research & Science

- Simonis, J. L., E. P. White, and S. K. M. Ernest. 2022. Evaluating probabilistic ecological forecasts. Oral Presentation. Ecological Forecasting Initiative Virtual Conference.
- Simonis, J. L. 2022. Identifying, Quantifying, and Communicating the Impacts of Chemical Weapons on Urban Communities and Ecosystems. Graduate Program in Ecology and Evolution Seminar Series. Rutgers University. [Series Announcement](#).
- J. Garvin<sup>§</sup>, J. L. Simonis<sup>§</sup>, and J. Taylor. 2021. What we've learned about wildlife fatalities and increasing turbine size. Oral Presentation. American Clean Power Siting and Environmental Compliance Virtual Summit.
- Simonis, J. L., E. P. White, and S. K. M. Ernest. 2021. Evaluating probabilistic ecological forecasts. Oral Presentation. Ecological Society of America. [Abstract and On-Demand](#).
- Simonis, J. L. 2021. Chemical Weapons Environmental Toxicology. Presentation, Panel, and Discussion. Police Violence as a Public Health Threat. University of Washington. [Video](#).
- Simonis, J. L. 2021. Inclusive practices in research. Presentation, Panel, and Discussion. Oklahoma State University Women's Faculty Council. Virtual Meeting. [Announcement](#).
- Simonis, J. L. 2021. A Multi-Observation Model for Quantifying Deployment of Lethal Hexachloroethane by Federal Agents in Downtown Portland, OR, USA. Poster Presentation. Urban Ecosystem Research Consortium (Portland, OR/Vancouver, WA). Annual Meeting. [Abstract](#), [Poster](#).
- Simonis, J. L. 2021. Police Ineptitude and the Environmental Impacts of Chemical Weapons. Oral Presentation and Discussion. SunrisePDX & 350PDX: Poisoned People Poisoned Planet. Portland, OR. [Video](#).
- Simonis, J. L. 2021. Use of Chemical Weapons by Portland Police Bureau and its Human and Environmental Impacts. Oral Presentation and Discussion. Portland, OR Citizen Review Committee.
- Simonis, J. L. 2021. Cover-ups of health risks caused by law enforcement munitions smokes. Press Conference. Chemical Weapons Research Consortium (Portland, OR). [Video with ASL and captions](#), [Slides](#), [Text](#).
- Simonis, J. L. 2020. Tools for working with the CDFW salvage database. Oral Presentation and Discussion. Interagency Ecological Program Data Science Project Working Team.
- Simonis, J. L., E. M. Christensen, D. J. Harris, R. M. Diaz, H. Ye, E. P. White, and S. K. M. Ernest. 2020. LDATS: Latent Dirichlet Allocation coupled with Time Series Analyses. Oral Presentation. useR! 2020 Meeting. [Video](#).
- Simonis, J. L. and M. L. Larsen. 2020. Combining high-frequency sampling, continuous analysis, and a user-friendly interface to inform operations and mitigate impacts to salmon at major pumping plants in the California Delta. Invited Oral Presentation. Ecological Society of America Annual Meeting. [Abstract](#).
- Simonis, J. L. 2019. Computational Conservation Biology: Forecasting wildlife using long-term data and continuous analyses. Department Seminar. Washington State University-Vancouver, Science Seminar Series. [Archive Listing](#).
- Simonis, J. L. and J. Merz. 2019. Prey availability, environmental constraints, and aggregation dictate population distribution of an imperiled fish. Oral Presentation. American Fisheries Society Oregon Chapter Annual Meeting. [Abstract](#).
- Simonis, J. L., G. Yenni, S. Taylor, E. Christensen, E. Bledsoe, H. Ye, E. White, and S. K. M. Ernest. 2019. Sandboxing the pipeline: building automated forecasting systems to facilitate model development. Oral Presentation. Ecological Forecasting Initiative Semiregular Meeting. [Video](#).
- Simonis, J. L. 2019. Adventures in freelancing ecology: implementing lessons from Nelson outside of academia. Oral Presentation. Hairston Hoopla, Cornell University.
- Simonis, J. L., G. Yenni, S. Taylor, E. Christensen, E. Bledsoe, H. Ye, E. White, and S. K. M. Ernest. 2018. Prediction & forecasting of Portal fauna via particle filtration. Oral Presentation. Ecological Society of America Annual Meeting. [Abstract](#).
- Simonis, J. L., S. Zeug, and K. Ross. 2017. Particle filtration for the conservation biologist. Oral Presentation. Ecological Society of America Annual Meeting. [Abstract](#).
- Simonis, J. L., M. Fidino, E. W. Lehrer, and S. B. Magle. 2016. Developing a dynamic multi-species patch occupancy model to study urban mesocarnivore distributions. Poster Presentation. Urban Ecosystem Research Consortium (Portland, OR/Vancouver, WA). Annual Meeting. [Proceedings](#).



- Simonis, J. L., M. Fidino, and S. B. Magle. 2016. To Chicagoland and beyond! Oral Presentation. Ecology Society of America. Annual Meeting. [Abstract](#).
- Simonis, J. L. 2016. Apps for applied ecology. Ignite Presentation. Ecology Society of America. Annual Meeting. [Abstract](#).
- Simonis, J. L., L. J. Faust, R. B. Harrison, S. T. Long, D. R. Rabon Jr., and W. T. Waddell. 2015. The case for space: the impact of holding capacity (and breeding) on the ability of the Red Wolf SSP to meet federal recovery goals. Poster Presentation. Associations of Zoos and Aquariums. Annual Meeting.
- Simonis, J. L., L. J. Faust, R. B. Harrison, S. T. Long, D. R. Rabon Jr., and W. T. Waddell. 2015. Movement and mixing in a managed metapopulation. Oral Presentation. Ecology Society of America. Annual Meeting. [Abstract](#).
- Simonis, J. L. 2015. Movement and mixing in a managed metapopulation. Seminar. Department of Forestry and Natural Resources, Purdue University.
- Simonis, J. L., M. Fidino, E. W. Lehrer, and S. B. Magle. 2015. Developing a dynamic multi-species patch occupancy model to study Chicagoland mesocarnivores. Poster Presentation. International Urban Wildlife Conference. Semi-Annual Meeting.
- Simonis, J. L. 2015. Computation for conservation. Oral Presentation and Discussion. Lincoln Park Zoo Heritage Society Science Luncheon.
- Simonis, J. L., L. J. Faust, S. T. Long, W. T. Waddell, D. R. Rabon Jr., and R. B. Harrison. 2015. *Ex situ* population viability analysis (PVA) model for red wolves. Oral Presentation. Red Wolf Species Survival Plan Working Group. Annual Meeting.
- Simonis, J. L., S. T. Long, K. Perišin, and L. J. Faust. 2014. Uncovering challenges to sustainability of AZA animal programs with PMCTrack. Poster Presentation. Associations of Zoos and Aquariums. Annual Meeting.
- Simonis, J. L., L. J. Faust, S. T. Long, W. T. Waddell, D. R. Rabon Jr., and R. B. Harrison. 2014. Population viability analysis (PVA) model for red wolves. Oral Presentation. Canid Tag Meeting. Association of Zoos and Aquariums.
- Faust, L. J.<sup>§</sup> and J. L. Simonis<sup>§</sup>. 2014. Are we doing a good job with our animal programs? Seminar. Conservation and Science Department, Lincoln Park Zoo.
- Simonis, J. L., L. J. Faust, R. B. Harrison, S. T. Long, D. R. Rabon Jr., and W. T. Waddell. 2014. One plan to save them all: using population viability analyses to manage *in situ* and *ex situ* red wolf populations. Poster Presentation. The Wildlife Society. Annual Meeting.
- Simonis, J. L., L. J. Faust, S. T. Long, W. T. Waddell, D. R. Rabon Jr., and R. B. Harrison. 2014. *Ex situ* population viability analysis (PVA) model for red wolves. Oral Presentation. Red Wolf Species Survival Plan Working Group. Annual Meeting.
- Faut, L. J.<sup>§</sup>, S. T. Long, K. Perišin, and J. L. Simonis<sup>§</sup>. 2013. Are we following breeding and transfer recommendations in our Animal Programs? A systematic analysis of 100,000 recommendations from PMCTrack. Poster Presentation. Associations of Zoos and Aquariums. Annual Meeting.
- Simonis, J. L. 2013. Resource-dependent dispersal promotes spatial food-web persistence in a rock-pool metacommunity. Invited Oral Presentation. Ecology Society of America. Annual Meeting. [Abstract](#).
- Simonis, J. L. 2013. Food webs in space! Seminar. Department of Biology, University of South Dakota.
- Simonis, J. L. 2012. Demographic stochasticity reduces the synchronizing effect of dispersal in predator-prey metapopulations, Oral Presentation. North American Congress for Conservation Biology. Semi-Annual Meeting.
- Simonis, J. L. 2012. Food webs in space! Seminar. Department of Ecology and Evolutionary Biology, Cornell University.
- Simonis, J. L. and J. Ellis. 2012. Boisterous bathing birds bias beta-diversity. Oral Presentation. Ecology Society of America. Annual Meeting. [Abstract](#).
- Simonis, J. L. and J. Ellis. 2012. Boisterous bathing birds bias beta-diversity. Oral Presentation. Heiserfest. Shoals Marine Laboratory, Cornell University.
- Simonis, J. L. and J. Ellis. 2012. Boisterous bathing birds bias beta-diversity. Poster Presentation. Frontiers in the Life Sciences Symposium, Cornell University.
- Simonis, J. L. 2011. Ontogenetic shift by top predator dictates trophic cascades in freshwater rock pools. Oral Presentation. Graduate Student Symposium. Biogeochemistry and Environmental Biogeochemistry Program, Cornell University.
- Simonis, J. L. 2011. The impact of top-predator ontogeny on trophic interactions in freshwater rock pools. Oral Presentation. Ninth International Symposium on Cladocera.
- Simonis, J. L. 2011. Demographic stochasticity reduces the synchronizing effect of dispersal in predator-prey metapopulations, Oral Presentation. Department of Ecology and Evolutionary Biology, Cornell University. Annual Symposium.
- Simonis, J. L. 2011. Is dispersal a strong synchronizing force in predator-prey metapopulations? Oral Presentation. Ecology Society of America. Annual Meeting. [Abstract](#).
- Simonis, J. L. 2010. Ontogenetic shift by in predation by *Trichocorixa verticalis* dictates trophic cascade in freshwater rock pools. Oral

- Presentation. American Society for Limnology and Oceanography. Annual Meeting. [Abstract](#).
- Simonis, J. L. and I. Hewson. 2010. The effects of dissolved organic carbon inputs on freshwater rock pools. Oral Presentation. Graduate Student Symposium. Biogeochemistry and Environmental Biogeochemistry Program, Cornell University.
- Simonis, J. L. 2010. Aerial defense of offspring by gulls (*Larus* sp.) against intruding researchers. Oral Presentation. Department of Ecology and Evolutionary Biology, Cornell University. Annual Symposium.
- Simonis, J. L. 2010. Food webs in space: interactions between dispersal and food-web dynamics. Oral Presentation. Cary Institute of Ecosystem Sciences. Graduate Student Symposium.
- Simonis, J. L. 2010. Gulls as dispersal vectors in a rock-pool metacommunity. Oral Presentation. Department of Ecology and Evolutionary Biology, Cornell University. Annual Symposium.
- Simonis, J. L. 2009. Long- and short-term dynamics of pond zooplankton communities. Oral Presentation. Graduate Student Symposium. Biogeochemistry and Environmental Biogeochemistry Program, Cornell University.
- Simonis, J. L. 2009. Rock pools, guano and DOC: the effects of nutrient loading on aquatic micro-ecosystems. Oral Presentation. Cary Institute of Ecosystem Sciences. Graduate Student Symposium.
- Simonis, J. L. 2009. Ocean-front limnology: freshwater rock pools as model ecosystems. Poster Presentation. Celebration of a Centennial of Limnology. Cornell University.
- Simonis, J. L., S. R. Hall, C. E. Cáceres, and A. J. Tessier. 2008. Feed a fever, starve a haemolymph fungus. Poster Presentation. Ecology Society of America. Annual Meeting.
- Simonis, J. L. 2008. The use and abuse of multivariate analytical methods in community (field) ecology. Seminar and Discussion. Department of Ecology and Evolutionary Biology, Cornell University. Lunch Bunch.
- Simonis, J. L. 2008. Rot-n-enzymes: substrate degradation by freshwater ascomycete fungi. Oral Presentation. Department of Ecology and Evolutionary Biology, Cornell University. Annual Symposium.
- Simonis, J. L., H. A. Raja, and C. A. Shearer. 2006. Substrate degradation patterns of freshwater euascomycetes. Poster Presentation. Mycological Society of America. Annual Meeting.
- Simonis, J. L. 2006. Oral Presentation. Substrate degradation patterns of freshwater euascomycete fungi: extracellular enzymes and soft-rot decay. School of Integrative Biology, University of Illinois. Annual Undergraduate Research Symposium.

### Career Pathways

- Simonis, J. L. 2020. ~Transitioning~ to outside academia. Panelist. Challenges to an Inclusive Freshwater Community. Society for Freshwater Sciences Summer of Science.
- Simonis, J. L. 2019. Freelancing ecological data science. Presentation and Discussion. R Ladies Gainesville.
- Simonis, J. L. 2018. Applied data science inside, out of, and around academia. Oral Presentation. University of Florida Carpentries Research Bazaar.
- Simonis, J. L. 2017. Visible and invisible identities in the workplace. Presentation and Discussion. Women in Science, Women in Policy & Women in Marine Sciences. Oregon State University.
- Simonis, J. L. 2014. Conservation and Science Careers. Presentation and Discussion. Career Explorers. Lincoln Park Zoo.

### LGBTQIA

- Simonis, J. L. 2020. When equality is the prize; a panel of trans athletes. Panel Discussion. Co-EXIST. Dragon Productions Theater Company.
- Simonis, J. L. 2015. Transgender Day of Remembrance. Keynote Address. Purdue University.
- Simonis, J. L. 2014. Queer in academia. Seminar. Gender Studies Department and Graduate Student Union. University of Notre Dame.

## RESEARCH FUNDING

### Competitive Research Grants and Fellowships

- National Science Foundation, Long-Term Research in Environmental Biology. 2019. Using forecasting and long-term experiments to understand ecological dynamics under novel conditions. Grant [1929730](#). Senior Personnel and Co-Author. \$637,157.
- National Science Foundation, Doctoral Dissertation Improvement Grant. 2011. Food webs in space: the interplay between dispersal and trophic interactions. Grant [1110545](#). Co-PI. \$14,773.
- A. W. Mellon Foundation, Research Small Grant. 2010. \$1,500.
- Sigma Xi, Research Small Grant. 2009. \$800.

Cornell University Program in Biogeochemistry and Environmental Biocomplexity, Research Small Grants. 2008 – 2011. \$15,000.  
Shoals Marine Laboratory, Summer Research Awards. 2008 – 2011. \$10,000.  
Cornell University Department of Ecology and Evolutionary Biology, Research Awards. 2008 – 2009. \$1,250.  
National Science Foundation, Graduate Research Fellowship. 2007. \$178,500.

## Research Contracts

Riverbanks Zoo and Garden. Sustainability Index Reports. 2022. \$1,500.  
Cramer Fish Sciences. The impact of armored shorelines on fish communities. 2021. \$2,875.  
Kitizen Science. Cat photo identification analyses. 2020. \$20,000.  
Buckley Laboratory, University of Washington. trenchR. 2020. \$8,750.  
Tetra Tech. Effective of turbine size on mortality rates. 2020. \$25,380.  
Waters Lab. Providence College. MAVEn R package. 2020. \$5,000.  
Weecology Laboratory, University of Florida. Forecasting rodent and plant dynamics. 2020. \$37,866.  
Weecology Laboratory, University of Florida. Data-intensive ecological forecasting. 2020. \$154,104.  
Great Basin Bird Observatory. Avian mortality at Crescent Dunes Solar Project. 2020. \$8,450.  
American Wind and Wildlife Institute. American Wind and Wildlife Information Center. 2019. \$16,288.  
Cramer Fish Sciences. Long-term smelt and silverside interactions. 2019. \$13,500.  
Cramer Fish Sciences. Multihabitat aquatic sampling platform analysis. 2019. \$12,625.  
The Sustainability Innovation Lab, University of Colorado: Boulder. ATTA project public database. 2019. \$10,000.  
Hulshof Lab, Virginia Commonwealth University. Phenological impacts of Hurricane Maria. 2019. \$10,000.  
Cramer Fish Sciences. Umatilla smolt outmigration analyses. 2019. \$14,500.  
Gornish Laboratory, University of Arizona. Impacts of Lehmann lovegrass on agave. 2019. \$7,000.  
Gornish Laboratory, University of Arizona. Analysis of mesquite impacts on understory plants. 2019. \$7,000.  
Great Basin Bird Observatory. Avian mortality at Crescent Dunes Solar Project. 2019. \$2,000.  
The Freshwater Trust. Vegetation monitoring site selection model. 2018. \$52,156.  
Reef Environmental Education Foundation. Embedded assessment of public participation in reef fish surveys. 2018. \$27,000.  
Great Basin Bird Observatory. Thrasher territory analysis. 2018. \$5,000.  
US Forest Service & Great Basin Bird Observatory. Pinyon jay site selection analyses. 2018. \$6,000.  
Great Basin Bird Observatory. Waterbird trend analysis. 2018. \$1,525.  
Cramer Fish Sciences. Umatilla smolt outmigration analyses. 2018. \$14,500.  
Great Basin Bird Observatory. Avian mortality at Crescent Dunes Solar Project. 2018. \$2,850.  
Tetra Tech. Kawailoa Wind Farm fatality estimation evaluation. 2018. \$250.  
Bat Conservation International. Generalized estimator of bird and bat fatality at renewable energy facilities. 2017. \$53,397.  
The Freshwater Trust. Snake River vegetation monitoring plan evaluation. 2017. \$7,718.  
Great Basin Bird Observatory. Pinyon jay habitat use and nesting analysis. 2017. \$6,000.  
Tetra Tech. Gunsight Wind Energy Project analysis. 2017. \$1,375.  
Cramer Fish Sciences. Umatilla smolt outmigration analyses. 2017. \$9,600.  
Environmental Science Associates. Clifton Court Forebay predator removal bioenergetics. 2017. \$8,926.  
Great Basin Bird Observatory. Evaluation of Bureau of Land Management vegetation survey data. 2017. \$750.  
Great Basin Bird Observatory. Avian use and mortality at Crescent Dunes Solar Project. 2017. \$2,500.  
Great Basin Bird Observatory. Road-based survey population estimator evaluation. 2017. \$375.  
Cramer Fish Sciences. Delta smelt population distribution modeling. 2016. \$51,560.  
US Fish and Wildlife Service. Estimating project-specific mortality estimates from post-construction survey data and refinement of eagle Bayesian risk model. 2016. \$24,000.  
Cramer Fish Sciences. Clifton Court Forebay predator bioenergetics. 2016. \$17,525.

Cramer Fish Sciences. Umatilla smolt outmigration analyses. 2016. \$9,600.  
 Cramer Fish Sciences. Dry Creek temperature modeling. 2016. \$6,400.  
 Guam Department of Agriculture. Population Viability Analysis to support releases of Sihok (*Todiramphus cinnamominus*). 2015. \$19,720.  
 Lincoln Park Zoo. Red wolf Population Viability Analysis. 2015. \$38,492.

#### Travel Grants

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

### AWARDS AND RECOGNITIONS

Women's Flat Track Derby Association	
Champion, Rose City Rollers' Wheels of Justice	2015, 2016, 2018, 2019
Runner Up, Rose City Rollers' Wheels of Justice	2017
Mundelein High School	
Distinguished Alumna	2018
The Trans 100	
Excellence in Service to Community	2015
Cornell University	
Lamont C. Cole Award for Outstanding Publication, Ecology & Evolutionary Biology	2014
Robert H. Whittaker Award for Outstanding Presentation, Ecology & Evolutionary Biology	2011
1 <sup>st</sup> Place, Harry W. Greene Grilled Cheese Competition	2011
University of Illinois: Urbana-Champaign	
Bronze Tablet & <i>Summa Cum Laude</i>	2006
Harriett Long Award for Outstanding Undergraduate Research, Integrative Biology	2006
Thesis Honors with High Distinction, Integrative Biology	2006

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

‡ Only first-authored presentations are listed

§ Co-authors contributed equally to the work