

Charles B. van Rees

EDUCATION

Ph.D., Biology (Ecology, Evolution, and Behavior), Tufts University – Awarded May 2018

Certificate in Water Resources Systems, Science and Society

Interdisciplinary Traineeship in Water Diplomacy

B.A., Ecology, **B.A.**, Environmental Science, *summa cum laude* with honors, Connecticut College – 2010

Minor: Spanish; **Certificate** in Conservation Biology

ACADEMIC APPOINTMENTS

Odum School of Ecology, University of Georgia

Athens, GA

Assistant Professor (Graduate Faculty)

Spring 2024 – Present

Developing multiple lines of grant proposals in interdisciplinary conservation science

Designing curricula and instructing for courses on ecology, conservation, and restoration

Advising graduate students and coordinating an active research lab

Odum School of Ecology, University of Georgia

Athens, GA

Assistant Research Scientist (Graduate Faculty)

Fall 2022 – Spring 2024

Led competitive research proposals on biodiversity conservation via Nature-based Solutions

Coordinated and directing multiple parallel interdisciplinary research teams

Co-advised graduate students and leading a study abroad course in ecology and natural history

Odum School of Ecology, University of Georgia

Athens, GA

Postdoctoral Research Associate

Spring 2021 – 2022

Coordinated multi-project collaborative research initiative on nature-based infrastructure

Drafted competitive grant proposals and led multidisciplinary agenda-setting synthesis papers

Consulted with land stewards including state, federal, and Indigenous/tribal authorities

Flathead Lake Biological Station, University of Montana

Polson, MT

Postdoctoral Research Associate

Fall 2019 – Spring 2021

Designed analytical pipeline for predicting spread risk for aquatic invasive species

Coordinated an inter-agency collaborative research team at the state and national scales

Department of Wetland Ecology, Estación Biológica de Doñana

Seville, Spain

Fulbright Early Career Scholar

Fall 2018 – Summer 2019

Investigated effects of water management on space use of migratory waterbirds in rice fields

Analyzed time-series data on impacts of flooding on waterbird nesting patterns in natural wetlands

Department of Biology, Tufts University

Medford, MA

Postdoctoral Researcher

Summer 2018

Quantitatively assessed extinction risk for two candidate species for down-listing from endangered

Provided actionable knowledge for improving habitat management among multiple agencies

Department of Biology, Tufts University

Medford, MA

Ph.D Candidate

Fall 2012 – Spring 2018

Studied the effects of wetland loss, climate change and connectivity on the Hawaiian gallinule

Designed new frameworks for integrating ecological science into sustainable water management

SELECTED GRANTS & FELLOWSHIPS (Total >\$840,000; * - as Lead PI on collaborative grant)

2024	(\$4,000) University of Georgia Interdisciplinary Pre-Seed Grant
2023	*(\$604,962) NASA ROSES Ecological Conservation Grant, “Leveraging Earth Observation for Ecosystem Service Accounting in Large-scale Levee Setback Decisions”
2022	(\$2,000) Archbold Biological Station Visiting Scholar Fellowship, “Do Freshwater Nutrient Subsidies Have Population-Level Impacts on Birds?”
2021	(\$2,600) American Ornithological Society Postdoctoral Research Grant
2020	(\$51,000) Northwest Climate Adaptation Science Fellowship, “Using Predictive Modeling to Stay One Step Ahead of Aquatic Invaders in Mountain Streams”
2019	*(\$35,000) USFWS Partners Grant, “Science and Culture for ‘Alae ‘ula conservation”
2018	(\$22,956) Fulbright Early Career Scholar Award, “Integrating Earth Observation, Animal Behavior and Ecological Modeling to Assess the Conservation Value of Andalusian Rice Fields Under Climate Change”
2016	(\$5,280) Tufts Institute for the Environment Interdisciplinary Research Grant, “Genetic methods for assessing movement behavior in an endangered waterbird”
2016	*(\$25,000) Disney Conservation Fund Annual Conservation Grant, “Stewarding waterbird habitat on private lands via cultural practice”
2015	(\$5,690) Tufts Institute for the Environment Graduate Research Fellowship
2014-21	*(\$14,550) Nuttall-Blake Fund Research Grant, “Assessing movement behavior in endangered Hawaiian waterbirds”; “Water-mediated nutrient subsidies of declining terrestrial birds”
2013	(\$5,900) Tufts Institute for the Environment Graduate Research Fellowship
2012	(\$56,000) NSF IGERT Water Diplomacy Fellowship at Tufts University, “Wildlife as important stakeholders in water resources development”
2010	(\$3,000) Mellen Environmental Studies Research Grant, “Shrubland bird nesting ecology”
2008-2010	(\$3,500) Undergraduate Research Fellowship, Goodwin-Niering Center for Conservation Biology and Environmental Studies

RESEARCH AND PROFESSIONAL EXPERIENCE

Cross-Realm Conservation Team , Center for Large Landscape Conservation	Bozeman, MT
Visiting Conservation Scientist	Winter – Spring 2017
Investigated cross-realm solutions for protecting freshwater and terrestrial ecosystems in Montana	
Convened scientists and stakeholders to guide future conservation decision-making in Yellowstone	
Shorebird Monitoring Program , Trustees of Reservations	Ipswich, MA
Wildlife Technician	Spring – Fall 2012
Monitored populations and nesting behavior of two threatened shorebird species	
Performed active predator management and nest protection based on published research	
Koenig Lab , Cornell Laboratory of Ornithology	Carmel Valley, CA
Field Technician	Fall 2011 – Spring 2012
Collected behavioral data for long-term research on cooperative breeding woodpeckers	
Studied oak mast phenology and nesting of dependent bird species	
Avian Ecology Lab , Archbold Biological Station	Venus, FL
Avian Ecology Intern	Winter 2010 – Summer 2011
Conducted extensive field surveys, observations, and monitoring of a threatened bird species	
Trapped, banded, and collected blood samples from birds for ongoing conservation research	

Shrubland Bird Team, National Audubon Society
Field Research Assistant

Southbury, CT
 Summer 2010

Captured, banded, and counted declining shrubland birds to inform habitat management

Sea Turtle Conservation Program, WIDECAST Costa Rica
Research Assistant & Volunteer Coordinator

Gandoca, Costa Rica

Summer 2009

Tagged, measured, and monitored nesting female leatherback Sea Turtles on a critical nesting beach

Translated between local staff and the public; Led nightly patrols to protect endangered nesting turtles

PEER-REVIEWED PUBLICATIONS (* - Shared First Authorship; † - Student Mentee co-author)

30. **van Rees, C.B.**, Chambers, M., Buhr, D., Mansur, A., Suedel, B., and Nibbelink, N. *in press*. Strategic Planning of Freshwater Nature-based Solutions: An Interdisciplinary Synthesis for Implementing Levee Setbacks. *WIRES Water*.
29. **van Rees, C.B.** and Reed, J.M. 2024. Small translocations of endangered *Gallinula galeata sandvicensis* (Hawaiian Common Gallinule) may be sufficient to generate a viable reintroduced population. *Ornithological Applications* (Online Early View).
28. **van Rees, C.B.**, Webber, B., Nietmann, L., *et al.* 2024. Updated vital rate estimates for the endangered Hawaiian Common Gallinule (*Gallinula galeata sandvicensis*). *The Wilson Journal of Ornithology* 136: 106-113.
27. **van Rees, C.B.**, Hernández-Abrams, D., Shultz, M., *et al.* 2023. Re-imagining Infrastructure for a Biodiverse Future. *Proceedings of the National Academy of Sciences* 120(46): e2214334120.
26. Chambers, M.L., **van Rees, C.B.**, Huang, Y., Bledsoe, B. *et al.* 2023. Nature-based Solutions for Leveed River Corridors. *Anthropocene* 44: 100417.
25. McKay, S.K., Wenger, S.J., **van Rees, C.B.**, Bledsoe, B.P., and Bridges, T.S. 2023. Jointly advancing infrastructure and biodiversity conservation. *Nature Reviews Earth and Environment* 4: 675-677.
24. **van Rees, C.B.**, Jumani, S., Abera, L., Rack, L., McKay, S.K., and Wenger, S.J. 2023. The potential for nature-based solutions to combat the freshwater biodiversity crisis. *PLoS Water* 2(6): e0000126.
23. Paxton, A.H., Paxton, K.L., Kawasaki, M.T., Gorresen, P.M., **van Rees, C.B.**, Underwood, J.G. 2023. Hawaiian waterbird movement across a developed landscape. *The Journal of Wildlife Management* 87(1): e22336.
22. Burgio, K.R., Davis, K.E., Dreiss, L.M., Cisneros, L.M., Klingbeil, B.T., Preseley, S.J., **van Rees, C.B.**, and Willig, M.R. 2022. Integrating multiple dimensions of biodiversity to inform global parrot conservation. *Animal Biodiversity and Conservation* 45(2): 189-202.
21. **van Rees, C.B.**, Elphick, C.S., and Reed, J.M. 2022. Evaluating the potential de-listing of two endangered Hawaiian waterbirds using population viability analysis and Bayesian hierarchical models. *Avian Conservation and Ecology* 17.1.
20. **van Rees, C.B.**, Naslund, L., Hernandez-Abrams, D.D., McKay, S.K., Woodson, C.B., Rosemond, A., McFall, B., Altman, S., and Wenger, S.J. 2022. A Holistic Monitoring Approach for Natural Infrastructure. *Science of the Total Environment* 832: 155078.
19. **van Rees, C.B.**, Hand, B.K., Barger, C., Carter, S.C. *et al.*, 2022. A Framework to Integrate Innovations in Invasion Biology Science for Proactive Management. *Biological Reviews* 97(4): 1712-1735.
18. †*Howard, L., ***van Rees, C.B.**, Dahlquist, Z., Luikart, G., and Hand, B.K. 2022. A Review of Invasive Species Reporting Apps for Citizen Science and Opportunities for Innovation. *NeoBiota* 71.
17. †Carter, S., **van Rees, C.B.**, Hand, B.K., Muhlfeld, C., Luikart, G., and Kimball, J.S. 2022. Testing a machine learning workflow for aquatic invasive species on Rainbow trout (*Oncorhynchus mykiss*) in Northwest Montana. *Frontiers in Big Data* 4.

16. *Leigh, D.M., ***van Rees, C.B.**, Milette, K.L., et al. 2021. Opportunities and challenges of macrogenetic studies. *Nature Reviews Genetics* 22(12): 791-807.
15. **van Rees, C.B.**, Aragonés, D., Bouten, W., Bustamente, J., and Green, A.J. 2021. Dynamic space use of Andalusian rice fields by Lesser Black-backed Gulls (*Larus fuscus*) is driven by flooding pattern. *Ibis* 163(4): 1252-1270.
14. Paz-Vinas, I., Jensen, E.L., Bertola, L.D., Breed, M.F., Hand, B.K., Hunter, M.E., Kershaw F., Leigh D.M., Luikart, G., Mergeay, J., Miller, J.M., **van Rees, C.B.**, Segelbacher, G., Hoban, S. 2021. Macro-genetic studies must not ignore limitations of genetic markers and scale. *Ecology Letters* 24(6): 1282-1284.
13. **van Rees, C.B.**, †Muñoz, M.A., Cooke, S.C., and Reed, J.M. 2021. Morphometric differences in an isolated, island-endemic subspecies of the Common gallinule (*Gallinula galeata*). *Pacific Science* 74(4): 345-364.
12. **van Rees, C.B.**, Jähnig, S.C., et al., 2021. Safeguarding Freshwater Life Beyond 2020: Recommendations for the new Global Biodiversity Framework from the European Experience. *Conservation Letters* 14(1): e12771.
11. Gormally, B.M.G., **van Rees, C.B.**, Bowers, E., Reed, J.M., and Romero, L.M. 2020. Feather corticosterone does not correlate with environmental stressors or body condition in an endangered waterbird. *Conservation Physiology* 8(1): coaa125.
10. **van Rees, C.B.**, Surya, G., and Reed, J.M. 2020. Multiple Sources of Evidence for density dependence in the endangered Hawaiian stilt (*Himantopus mexicanus knudsenii*). *Population Ecology* 62: 207-219.
9. **van Rees, C.B.**, Rozek, J.C., Garcia, G., and J.M. Reed 2019. Ecological Stakeholder Analogs as intermediaries between freshwater biodiversity conservation and sustainable water management. *Environmental Policy and Governance* 29.4: 303-312.
8. Cooke, S.C., Haskell, L.E., **van Rees, C.B.**, and Fessl, B. 2019. A Review of the Introduced Smooth-billed Ani (*Crotophaga ani*) in Galápagos. *Biological Conservation*. 229:38-49.
7. **van Rees, C.B.** 2018. Wetland conservation in Hawaii and the need for flagship species. *Elepaio* 78: 37-41.
6. **van Rees, C.B.** and J.M. Reed. 2018. The potential effects of habitat connectivity, management and sea level rise on the extinction risk of an endangered waterbird in a fragmented island landscape. *PeerJ* 6: e4990.
5. **van Rees, C.B.**, Reed, J.M., Wilson, R.E., Underwood, J.G., and S.A. Sonsthagen 2018. Landscape genetics implicates stream and drainage infrastructure as corridors in the dispersal of an endangered wetland bird. *Ecology and Evolution* 8: 8328-8343.
4. **van Rees, C.B.**, et al. 2018. Estimation of vital rates for the Hawaiian gallinule, a cryptic, endangered waterbird. *Journal of Fish and Wildlife Management* 9:117-131.
3. **van Rees, C.B.**, Reed, J.M., Wilson, R.S., Underwood J.G., and S.A. Sonsthagen. 2018. Small-scale genetic structure in an endangered wetland specialist: possible effects of landscape change and population recovery. *Conservation Genetics* 19:129-142.
2. **van Rees, C.B.** and J.M. Reed 2015. Water Diplomacy from a Duck's Perspective: Wildlife and Ecosystems as stakeholders in Water Management. *Journal of Contemporary Water Research and Education* 155:28-42.

1. **van Rees, C.B.** and J.M. Reed 2014. Wetland Loss in Hawai'i since human settlement. *Wetlands* 32:335-350.

PEER-REVIEWED BOOK CHAPTERS

Roy, H.E., Pauchard, A., Stoett, P., Truong, T.R., Lipinskaya, T., Vincente, J.R., ... **van Rees, C.B.** *et al.* 2023. IPBES Invasive Alien Species Assessment: Chapter 1. Introducing biological invasions and the IPBES thematic assessment of invasive alien species and their control.

<https://doi.org/10.5281/zenodo.10056589>

van Rees, C.B., Rozek, J.C., and Garcia, G. 2019. Confronting the Natural Domain: Strategies for Addressing Ecology and Conservation in Complex Water Management Challenges. In: Interdisciplinary Collaboration for Water Diplomacy: Problem-Driven Research and Practice. (Islam, S. and Smith, K., Eds.). *Routledge Press*.

Burgio, K.R., **van Rees, C.B.**, Block, K.E., Pyle, P., Patten, M.A., Spreyer, M.F. and E.H. Bucher 2016. Monk Parakeet (*Myiopsitta monachus*), In: The Birds of North America (P.G. Rodewald, Ed.). Ithaca: Cornell Lab of Ornithology.

PENDING PUBLICATIONS (* - Shared First Authorship † - Student Mentee co-author)

van Rees, C.B. *in review*. Recognizing Human-Environment Water Conflict is A Critical Step for Managing Tradeoffs Between Water Management and Freshwater Biodiversity. Invited Submission at *One Earth*.

Howard, L. **van Rees, C.B.**, Carter, S., *et al.* *in review*. Mobilizing Species-Occurrence Databases and Satellite Imagery for Rapid Distribution Modeling of Aquatic Invasive Species. *Biological Conservation*.

***van Rees, C.B.**, *Jumani, S., McKay, S.K., Dekker, T., Chaudhary, V., and Wenger, S.J., *in prep*. Guideposts and Guardrails for Biodiversity Accounting in the 21st Century.

OTHER PUBLICATIONS

van Rees, C.B. 2022. Perspectives from the Global South inform and affirm the contemporary river conservation paradigm: A commentary on Feio et al. *Global Change Biology* 29(2): 292-293.

van Rees, C.B. and Kawasaki, M.T. 2020. Restoring Hawaii's wetlands is caring for our history, culture. Honolulu Star Advertiser, February 2020.

Reilly, E. and **van Rees, C.B.** 2018. Urban wetlands play key role in sustaining communities. Honolulu Star Advertiser, January 2018.

Creech, T., McClure, M., and **van Rees, C.B.** 2018. A Conservation Prioritization Tool for the Missouri Headwaters Basin. Center for Large Landscape Conservation, Bozeman, MT.

van Rees, C.B. 2017. Disney Conservation Fund Grant to Protect Endangered `Alae `Ula. *Kolea* 67:9. Conservation Council for Hawaii.

van Rees, C.B. 2015. Kokua needed to track the elusive `Alae `Ula. *Kolea* 65:5. Conservation Council for Hawaii.

AWARDS & HONORS

2023	Honorable Mention, Best Global Conservation Paper, Society for Freshwater Science
2021	Young Author Award, The Society of Population Ecology
2018	Best Student Paper, The Waterbird Society
2017	Certificate of Commendation for Dedication & Service to Hawaiian Conservation (House of Representatives, State of Hawai'i)
2016	Tufts University Undergraduate Mentoring and Teaching Award
2016	1 st Place in Research Talks, Tufts Graduate Student Research Symposium
2016	Honorable Mention – North American Ornithological Congress Best Student Presentation

- 2010 Finalist, Oakes and Louise Ames Prize for Outstanding Honors Thesis
2010 Connecticut College Winthrop Scholar
2010 Helen F. Mathieson Prize for Excellence in Conservation Biology
2010 Barbara Shattuck Kohn Prize for Excellence in Environmental Studies
2009 Sibyl A. Houseman Prize for Excellence in Biology
2006-10 Dean's High Academic Honors, Connecticut College

SELECTED INVITED SEMINARS (12 of >30)

van Rees, C.B. 2024. Nature-based Solutions and a New Paradigm for Freshwater Biodiversity Conservation. Department of Biology, University of South Carolina, Columbia, SC.

van Rees, C.B. 2024. Levee Setbacks for Wildlife Conservation: A New Research Approach. Invited Plenary, Missouri River Natural Resources Committee, Nebraska City, NE.

van Rees, C.B. 2024. Interdisciplinarity, Nature-based Solutions, and other tools for 21st-Century Water(fowl) Conservation. Department of Wildlife, Fish, and Conservation Biology, UC Davis, Davis, CA.

van Rees, C.B. 2019. Saving Hawaii's Swamp Chicken: The Conservation story of 'Alae 'Ula. Flathead Audubon Society Lecture Series, Kalispell, MT.

van Rees, C.B. 2019. Bridging conservation research and water security post-2020. EU Biodiversity Strategy Post-2020 Advisory Meeting Ghent, Belgium.

van Rees, C.B. 2019. Conserving Nature on a hot, crowded planet: Lessons learned from the Belgian gulls of Andalusia. Fulbright Spain 2019 Mid-Year Seminar. Valencia, Spain.

van Rees, C.B. 2018. Saving Hawaii's Swamp Chickens: The Impacts of Landscape and Climate Change on the Hawaiian gallinule. The Wildlife Society & Montana State University Department of Ecology Summer Lecture Series, Bozeman, MT.

van Rees, C.B. 2018. Marsh Birds in Paradise: The Ecology and Conservation of the Hawaiian Gallinule. Nuttall Ornithological Club Lecture Series, Harvard University, Cambridge, MA.

van Rees, C.B. 2017. Tracking the Fire Thief: A Case Study in American Connectivity Conservation. British Trust for Ornithology Seminar, Thetford, UK.

Creech, T. and **C.B. van Rees** 2017. Wilderness to Waikiki: Case Studies in American Connectivity Conservation. Cambridge Conservation Forum Lecture, David Attenborough Building, Cambridge, UK.

van Rees, C.B. 2015. The Movement Mystery of the Hawaiian gallinule. University of New Hampshire, Department of Biology, Durham, NH.

van Rees, C.B. 2013. Hawaiian Wetlands—A Historical Perspective. Pacific Coast Joint Venture Hawaiian Wetlands and Waterbird Workshop, Kailua, HI.

Ellmore, G.S. and **C.B. van Rees**. 2012. Vietnam on the Biodiversity stage: Biodiversity Hotspots and Conservation Biology. Hanoi University of Science, Hanoi, Vietnam.

SELECTED CONFERENCE PRESENTATIONS (10 of >50)

van Rees, C.B., Hernández-Abrams, D., Shudtz, M., *et al.* 2023. Re-imagining Water Infrastructure for a Biodiverse Future. Society for Freshwater Sciences 2023, Brisbane, Queensland, Australia.

van Rees, C.B. 2023. Human-Environment Water Conflict and the Future of Sustainable Water Management. *Honorable Mention for Best Global Conservation Paper*. Society for Freshwater Sciences 2023, Brisbane, Queensland, Australia.

van Rees, C.B., Aragonés, D., Bouten, W., Thaxter, C., Ross-Smith, V.H., Steinen, E., Bustamante, J., and Green, A.J. 2020. Temporally Dynamic Resource Use of Overwintering Waterbirds During an Agricultural Cycle in Southern Spain. North American Ornithological Conference VII (Virtual).

van Rees, C.B., Hand, B.K. *et al.* 2020. Integrating underutilized technologies to predict the spread of aquatic invasive species. American Fisheries Society, Montana Chapter Conference. Kalispell, MT.

van Rees, C.B. and Reed, J.M. 2018. The impacts of climate change and dispersal behavior on population viability of an endangered Hawaiian waterbird. 27th Annual International Ornithological Congress, Vancouver, BC.

van Rees, C.B., *et al.* 2018. Navigating a Paved Paradise: Landscape Genetics of an Endangered Hawaiian Waterbird. **Winner of Best Student Paper**. 42nd Annual Meeting of the Waterbird Society. Vancouver, BC.

van Rees, C.B., Reed, J.M., Wilson, R.E., Underwood, J., Nadig, A., and S.A. Sonsthagen. 2018. Landscape genetics of endangered Hawaiian waterbirds. Student Conference on Conservation Science, University of Cambridge, Cambridge, UK.

van Rees, C.B., *et al.* 2017. Marsh birds in urban lands: Do stream corridors explain population connectivity? Student Conference on Conservation Science, American Museum of Natural History, New York City.

van Rees, C.B., Kawasaki, M.T., Underwood, J., Sonsthagen, S.A., Paxton, E.H., and J.M. Reed 2016. Ke lele manu o ka wai: Movement Ecology and Conservation of Hawaiian Waterbirds. IUCN World Conservation Congress 2016, Honolulu, Hawaii.

van Rees, C.B., Reed, J.M., Wilson, R.E., Underwood, J., Nadig, A., and S.A. Sonsthagen 2016. The movement ecology of an endangered rallid: The Hawaiian gallinule. North American Ornithological Congress VI, Washington, D.C.

MENTORING AND ADVISING (* - as Thesis Co-advisor)

2021-2024	*Colin Peterson , M.S. Ecology, Univ. of Georgia (2024)
2019-2022	Sean C. Carter , M.S. Forestry, University of Montana (2022)
2019-2022	Leif Howard , B.S. & M.S. Wildlife Bio., Univ. of Montana (2020 & Ongoing)
2018-2021	Lukanicole Zavas , M.S. Nat. Resources, University of Hawai‘i at Mānoa (2020)
2017-2018	Matthew Pedrotti , B.S. Botany, Humboldt State University (2018)
2016-2021	Maria Alejandra Muñoz , B.S. Ecology, Tufts University (2018)
2015-2017	Annie Miller , B.S. Ecology, Tufts University (2016)
2015	Tiana Bolosan , B.S. Envi. Science, University of Hawai‘i at Hilo (2016)

TEACHING EXPERIENCE

2024	Co-Instructor, Costa Rica Tropical Ecology Maymester, ECOL 3510L
2023	Guest Instructor (Field Methods), University of Georgia Odum School of Ecology, ECOL 8000 Topics in Modern Ecology
2022	Guest Lecturer, University of Georgia Odum School of Ecology, ECOL 2200 Water Sustainability in the Anthropocene

- 2021 Guest Lecturer, University of Georgia Odum School of Ecology, ECOL 6080
Principles of Integrative Conservation and Sustainability
- 2012-2017 Teaching Assistant, Tufts University Department of Biology
- BIO 144 Principles of Conservation Biology (2 Semesters)
 - BIO 051 Experiments in Ecology (1 Semester)
 - BIO 012 Evolution in Our World (Non-majors) (1 Semester)
 - BIO 132 Biostatistics (1 Semester)
 - BIO 181 Tropical Ecology and Conservation (1 Semester)
 - Natural History, Bahamas Field Course (2 Sessions)
 - BIO 007 Environmental Biology (1 Semester)
 - BIO 093/193 Independent Research (4 semesters, two students)
 - BIO 199 Senior Honors Thesis (2 semesters, one student)

SELECTED OUTREACH & MEDIA COVERAGE

Co-Producer & Co-Host, [The Nature Guys Podcast](#)

Joined naturalist team sharing nature topics with >7,000 listeners bimonthly

Co-produced episode mini-series on water and the environment featuring Erin Brockovich

2022 TED_x Speaker, “[A Glance through Nature's Playbook](#)”. TED_x Bozeman, April 2022.

Featured Guest, [Anchor & Flame Podcast](#). "[Conversation with Naturalist Dr. Charles van Rees](#)"
December 2021.

Featured Guest, [Podsongs Podcast](#). "[Charles van Rees on invasive species \(ft. Musical guests Creature Comfort\)](#)" November 2021.

Featured Guest, [Rewildology Podcast](#). "[The \(Im\)Balance Between Life & Water with Charles van Rees, PhD](#)" September 2021.

Guest Scientist, SciComm Mondays Science [Livestream](#) with Nicole Wood.

Featured Guest, Maunaloa: East Oahu Communities Working Together.

Episodes aired [September](#) 2014, [August](#) and [September](#) 2015, [June](#) 2016.

Featured in “[Campbell’s Coup](#)”, Hawaii Magazine, September/October 2014 edition by Mary Vorsino.

Science Storyteller, [The Story Collider](#).

Authored and performed science story about field work in ecology & conservation. Recorded live at the Oberon theater in Cambridge, MA and [podcast](#) in March 2014.

LEADERSHIP, VOLUNTEERING, & SERVICE

Founder & Editor in Chief, The [Gulo in Nature](#) Blog Athens, GA
Writing weekly blog posts on naturalist tips, outdoor recreation, Winter 2022 – Present
ecology, conservation, and environmental careers for a nature education blog.

Scientific Advisor, ‘Alae ‘ula Recovery Working Group Kapa‘a, HI
Co-producing a recovery & reintroduction plan for an Summer 2021-Present
endangered waterbird

Facilitated grant development among collaborators from state, federal & private agencies

Executive Board Member, K9 Conservationists	Missoula, MT
Providing scientific consultations for organization mission and directives	Spring 2021 – Present
Researching and identified grant funding and outreach opportunities	
Executive Board Member, Hawai‘i Islands Conservation Collective	Honolulu, HI
Providing scientific expertise on endangered bird ecology	Winter 2020 – Present
Deliberating and voting upon organizational mission, goals, and actions	
Lead Ecologist, Livable Hawaii Kai Hui	Honolulu, HI
Drafted conservation plan for biodiversity on managed properties	Summer 2015 – Present
Spearheaded and organized applications for wildlife conservation grants	
Directed community science research programs and managed databases	
President, Connecticut College Martial Arts Club	New London, CT
Coordinated training schedules and skill trades for 30+ students	Fall 2007 – Spring 2010
Organized performances for cultural events & self-defense for women & LGBTQ+ students	
Reviewer For: Proceedings of the Royal Society B, Nature, Global Change Biology, Nature Scientific Reports, Environmental Reviews, Conservation Science and Practice, Wetlands, Freshwater Biology, Water, Animal Conservation, Frontiers in Ecology and Evolution, Wilson Journal of Ornithology, Waterbirds, Anthropocene, Journal of Field Ornithology, Sustainability, Ornithological Science, PeerJ, Ecology and Evolution, Diversity and Distributions, Ecological Indicators, Biological Invasions, Journal of Environmental Planning and Management	
WORKSHOPS & PROFESSIONAL DEVELOPMENT	
Integrative Conservation Reading Group: Equity and Justice	Athens, GA
Biweekly reading group on racial and environmental justice issues in biodiversity conservation.	Spring 2023
Participatory and Student-Centered Teaching	Athens, GA
Training in strategies and tools for increasing student engagement and involvement in undergraduate and graduate courses.	Fall 2023
Co-production for Just and Equitable Climate Research	Albuquerque, NM
Four-day intensive on research methods, engagement skills, and ethics for including Indigenous knowledge and perspectives in climate change research.	Fall 2021
Montana Master Naturalist Certification	Missoula, MT
Field- and course-work certification in natural history and interpretive nature guiding	Fall 2020
Theory and Practice of Linking Knowledge with Action for Applied Science	Seattle, WA
Graduate-level fellowship training in achieving scientific co production.	Spring 2020
Communication Skills for Effective Leadership	Madrid, Spain
Intensive training in written and oral communication for team coordination	January 2019
Using Conservation Evidence to answer conservation questions	Cambridge, UK
Training in evidence-based approaches to applied conservation research.	April 2018
Hawaii Bird Banding Workshop	Honolulu, HI
Ethics and methods of bird capture, banding, and resighting for research.	February 2018
Spatial Analysis in R	New York, NY
Handling and analyzing spatial datasets using statistical analysis software.	October 2017

Making Conservation Politically Effective	New York, NY
Training in representing conservation interests to lawmakers	October 2017
Occupancy modeling for Ecology in R	New York, NY
Statistical theory and programming for occupancy-based ecological models.	October 2016
Mediation and Negotiation in Water Resources Conflicts	Harvard, MA
Mediating and leading negotiations between stakeholders in water conflicts.	September 2015
Wetland Ecology and Waterfowl Management	Puxico, MO
Training in hydrology and ecology of lentic wetland systems.	August 2013
Moist-soil management techniques for waterfowl conservation	

PROFESSIONAL SKILLS SUMMARY

Software: ENVI, ArcGIS, QGIS, Program MARK, VORTEX, SPSS, Microsoft Office Suite

Programming: R (advanced), Python (basic), JAGS/OpenBUGS, MATLAB (basic), SQL (basic)

Language: English (Native speaker), Spanish (Professional Working Proficiency)

PROFESSIONAL AFFILIATIONS

Society for Freshwater Science, American Ornithological Society, Sigma Xi, IUCN Connectivity Conservation Working Group, GEO BON Species Populations Working Group, Freshwater BON, Nuttall Ornithological Society, Phi Beta Kappa.

PROFESSIONAL REFERENCES

Dr. Seth Wenger
Associate Professor & Director of Science
Odum School of Ecology & River Basin Center
University of Georgia
Email: swenger@uga.edu
Phone: (208) 340-7046

Dr. Gordon Luikart
Professor of Conservation Genetics
Department of Wildlife Biology
University of Montana & Flathead Lake Biological Station
Email: gordon.luikart@umontana.edu
Phone: (406) 872-4517

Dr. J. Michael Reed
Professor of Biology
Tufts University
Email: Michael.reed@tufts.edu
Phone: (617) 627-3544

Dr. Shafiqul Islam
Professor of Civil Engineering & Water Diplomacy
Fletcher School of Law & Diplomacy
Tufts University
Email: Shafiqul.islam@tufts.edu
Phone: (617) 627-4290