

HAROLD N. EYSTER

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EDUCATION

Ph.D., Resources, Environment, and Sustainability

2016–2021

University of British Columbia

Vancouver, BC

Thesis: *Leveraging human–nature relationships towards sustainable pathways.*
[10.14288/1.0401270](https://doi.org/10.14288/1.0401270).

Advisor: Dr. Kai Chan

Committee: Dr. Terre Satterfield, Dr. Diane Srivastava, and Dr. Robin Naidoo

B.A., Environmental Science and Public Policy (High Honors)

2012–2016

Harvard University

Cambridge, MA

Graduation Honors: Magna Cum Laude

Thesis: *Invader Success and Changing Climate: Comparisons in the Native and Introduced Range of Seven Plant Species*

Advisor: Dr. Elizabeth Wolkovich

PUBLICATIONS

PAPERS UNDER PEER REVIEW

- Eyster, H. N.**, Naidoo, R., and K. M. A. Chan. Not just the Big Five: African ecotourists prefer parks brimming with bird and megafauna diversity. *Animal Conservation*.
- Eyster, H. N.**, Srivastava, D. S., Kreitzman, M., and K. M. A. Chan. *In situ* functional traits reveal how metacommunity processes maintain bird diversity in a human shared landscape. *Ecography*.

PEER-REVIEWED PUBLICATIONS

- Eyster, H. N.**, Olmsted, P., Naidoo, R., & Chan, K. M. A. (2022). Motivating conservation even for widespread species using genetic uniqueness and relational values. *Biological Conservation*, 266, 109438. <https://doi.org/10.1016/j.biocon.2021.109438>
- Kreitzman, M., **Eyster, H. N.**, Mitchell, M., Czajewska, A., Keeley, K., Smukler, S., Sullivan, N., Verster, A., & Chan, K. M. A. (2022). Woody perennial polycultures in the U.S. Midwest enhance biodiversity and ecosystem functions. *Ecosphere*, 13(1). <https://doi.org/10.1002/ecs2.3890>
- Eyster, H. N.**, & Wolkovich, E. M. (2021). Comparisons in the native and introduced ranges reveal little evidence of climatic adaptation in germination traits. *Climate Change Ecology*, 2, 100023. <https://doi.org/10.1016/j.ecoche.2021.100023>
- Chan, K. M. A., Boyd, D. R., Gould, R. K., Jetzkowitz, J., Liu, J., Muraca, B., Naidoo, R., Olmsted, P., Satterfield, T., Selomane, O., Singh, G. G., Sumaila, R., Ngo, H. T., Boedhihartono, A. K., Agard, J., Aguiar, A. P. D., Armenteras, D., Balint, L., Barrington-Leigh, C., Cheung, W. W. L., Díaz, S., Driscoll, J., Esler, K., **Eyster, H. N.**, Gregr, E. J., Hashimoto, S., Pedraza, G. C. H., Hickler, T., Kok, M., Lazarova, T., Mohamed, A. A. A., Murray-Hudson, M., O'Farrell, P., Palomo, I., Saysel, A. K., Seppelt, R., Settele, J., Strassburg, B., Xue, D., & Brondizio, E. S. (2020). Levers and leverage points for pathways to sustainability. *People and Nature*, 2(3), 693–717. <https://doi.org/10.1002/pan3.10124>
- Stoddard, M. C., **Eyster, H. N.**, Hogan, B. G., Morris, D. H., Soucy, E. R., & Inouye, D. W. (2020). Wild hummingbirds discriminate nonspectral colors. *Proceedings of the National Academy of Sciences*, 117(26), 15112–15122. <https://doi.org/10.1073/pnas.1919377117>
- Stoddard, M. C., Miller, A. E., **Eyster, H. N.**, Akkaynak, D., & Stoddard, M. C. (2018). I see your false colours: how artificial stimuli appear to different animal viewers. *Interface Focus*, 1(9). <https://doi.org/10.1098/rsfs.2018.0053>

Stoddard, M. C., Kupán, K., **Eyster, H. N.**, Rojas-Abreu, W., Cruz-López, M., Serrano-Meneses, M. A., & Küpper, C. (2016). Camouflage and Clutch Survival in Plovers and Terns. *Scientific Reports*, 6(January), 32059. <https://doi.org/10.1038/srep32059>

UNITED NATIONS REPORTS, CONTRIBUTING AUTHOR

Chan, K. M. A., Agard, J., Liu, J., Aguiar, A. P. D. d., Armenteras, D., Boedhihartono, A. K., Cheung, W. W. L., Hashimoto, S., Pedraza, G. C. H., Hickler, T., Jetzkowitz, J., Kok, M., Murray-Hudson, M., O'Farrell, P., Satterfield, T., Saysel, A. K., Seppelt, R., Strassburg, B., Xue, D., Selomane, O., Balint, L., & Mohamed, A. (2019). Pathways towards a sustainable future. In E. S. Brondízio, J. Settele, S. Díaz, & H. Ngo (Eds.), *Global assessment report of the intergovernmental science-policy platform on biodiversity and ecosystem services*. IPBES. <https://doi.org/10.5281/zenodo.3832100>

MEDIA COVERAGE:

The New York Times, The Wall Street Journal, CNN, Fox News, National Geographic, National Geographic España, Science Friday, ABC News, Princeton University, New Hampshire Union Leader, EcoWatch, iNFOnews, Delo, The Science Times

PRESENTATIONS

SYMPOSIA AND PANELS ORGANIZED

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| Chan, K. M. A, Eyster, H. N. , Gould, R., & Hogberg, J. “Fostering Inclusive Conservation: Emerging approaches for broadening conservation constituencies.” <i>North American Congress for Conservation Biology</i> | 2018
Toronto, ON |
| Winkler-Schor, S., Eyster, H. N. , Lanza, G., Lobo, D. “Enhancing conservation inclusion and diversity: lessons learned from the SCB Disciplinary Inclusion Task Force” <i>International Congress for Conservation Biology</i> | 2021
-remote- |

PAPERS PRESENTED

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| Eyster, H. N. “Using Stan to diagnose and fit high-dimensional multispecies abundance models.” <i>StanConnect Ecology</i> | 2021
-remote- |
| Eyster, H. N. , Satterfield, T., and Chan, K. “Synthesizing human action theories.” <i>Student Conference on Conservation Science</i> | 2019
Cambridge, UK |
| Eyster, H. N. and Naidoo, R., “Bird & Megafauna Diversity Explain Tourist Visits to African Parks.” <i>International Ornithological Congress</i> | 2018
Vancouver, BC |
| Eyster, H. N. and Chan, K. “Cultivating Conservationists: Using social science models to build conservation capacity.” <i>North American Congress on Conservation Biology</i> | 2018
Toronto, ON |
| Eyster, H. N. and Chan, K. “A framework for using eBird observer data to model human values for bird conservation.” <i>Joint meeting of the American Ornithological Society and the Society of Canadian Ornithologists</i> | 2017
East Lansing, MI |
| Eyster, H. N. “Rothschildia (Saturniidae) transparent ‘windows’ function to mimic avian predator, not to aid in dead leaf camouflage.” <i>100th meeting of the Ecological Society of America</i> | 2015
Baltimore, MD |
| Eyster, H. N. “Tolmie’s MacGillivray’s Warbler: the story of a name.” <i>91st meeting of the Wilson Ornithological Society</i> | 2010
Geneva, NY |

DEPARTMENTAL TALKS

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| Bastos, J., Blair, DG, Eyster, H. N. , Gow, E., Luszcz, T. “Science- and community-based approach for addressing cat predation of birds and SAR: case study of the use of Translational Ecology in Vancouver, BC.” <i>Pacific Wildlife Research Centre Seminar Series</i> | 2021
-remote- |
| Eyster, H. N. “Using genetic distinctness to motivate people to conserve a widespread species.” <i>Institute for Resources Environment and Sustainability Departmental Seminar, University of British Columbia</i> | 2020
Vancouver, BC |
| Eyster, H. N. “Conservation through the lens of human–nature relationships.” <i>Conservation Spotlight Seminar Series, University of British Columbia</i> | 2020
Vancouver, BC |

PUBLIC TALKS

RESEARCH ASSISTANTSHIPS

Research Assistant —Avian camouflage, pigmentation, vision, and evolution with Dr. M. C. Stoddard <i>Harvard University Department of Organismic and Evolutionary Biology and Princeton Department of Ecology and Evolutionary Biology</i>	2013–16
Research Assistant —augmented reality in environmental science pedagogy with Dr. Loch Brown <i>Geography Department, University of British Columbia</i>	2016–17
Research Assistant —temporal community ecology with Professor Elizabeth Wolkovich <i>Harvard University Department of Organismic and Evolutionary Biology and Arnold Arboretum</i>	2014–16
Conservation Bird Artist <i>Fundacion de Conservacion Jocotoco (Ecuador)</i>	2014
Wildlife Field Technician —conducted field surveys of Great Gray Owls and Peregrine Falcons <i>Yosemite National Park, US National Park Service</i>	2012
Intern —conducted prescribed burns, removed invasive species, collected native seeds, etc. <i>Natural Area Preservation, Division of the City of Ann Arbor, MI</i>	2009–10
Intern —researched concentrated animal feeding operations and helped design the 2009–10 Michigan Environmental Briefing Book <i>Michigan League of Conservation Voters, Ann Arbor, MI</i>	2009

TEACHING

Co-supervisor with Kai Chan for undergraduate researcher <i>Urban epiphyte diversity, University of British Columbia</i>	2020–21
Co-supervisor with Kai Chan for undergraduate researcher <i>Remote sensing tree identification, University of British Columbia</i>	2021
Guest Lecturer —ENVS 201: Research Methods <i>Rubenstein School of Environment and Natural Resources, University of Vermont</i>	2021
Teaching Assistant —Agroecology I: Introduction to principles and techniques <i>Faculty of Land and Food Systems, University of British Columbia</i>	2019
Teaching Assistant —Introduction to Environmental Science <i>Dept. of Earth, Oceans, and Atmospheric Science, University of British Columbia</i>	2016–17
Teaching Assistant —Assisted with workshop on Bayesian inference language Stan <i>Biodiversity Research Center, University of British Columbia</i>	2018

AWARDS AND SCHOLARSHIPS

Biodiversity Research: Integrative Training and Education Internship	CAD \$6,000	2020–21
Interdisciplinary Graduate Student Network travel award	CAD \$300	2019
International Doctoral Fellowship	CAD \$131,248	2017–21
Faculty of Science Graduate Award, University of British Columbia	CAD \$4,000	2016
International Tuition Award, University of British Columbia	CAD \$16,000	2016–18
Society of Canadian Ornithologist Travel Award	CAD \$275	2017
Werner and Hildegard Hesse Research fund	CAD 4,259	2017–18
Harvard University Ctr for the Environ. Undergraduate Summer Research Fund	\$1,000	2015
Harvard College Undergraduate Res. Fund	\$3,000	2015

Dean's Student Life Fund – conference travel grant	\$500	2015
David Rockefeller Int'l Experience Fund	\$5,500	2014
Isobel L. Briggs Traveling Fellowship Fund	\$6,500	2015
Michigan Botanical Club HVC Scholar		2012
American Birding Association Young Birder of the Year		2009

SERVICE

Committee member , <i>Cats and Birds Subcommittee, Vancouver Parks Board</i>	2020–
Co-Founder, Taskforce Member , <i>Society for Conservation Biology Disciplinary Inclusion Taskforce</i>	2020–21
Contributing author , <i>Intergovernmental Panel on Biodiversity and Ecosystem Services Global Assessment–Chapter 5: Pathways towards a Sustainable Future</i>	2019
Contributing author , <i>Intergovernmental Panel on Biodiversity and Ecosystem Services Values Assessment–Chapter 4: Indigenous protected spaces case studies</i>	2020
Contributing author , <i>Intergovernmental Panel on Biodiversity and Ecosystem Services Values Assessment–Chapter 4: Protected Area Case Study</i>	2020
Reviewer , <i>Ambio, Proceedings of the Royal Society B: Biological Sciences, Ecosystems and People</i>	2019–20
Mentor , Research Experience for undergraduates (REX), University of British Columbia	
Trustee , Canadian Union of Public Employees Local 2278 (TAs) <i>University of British Columbia</i>	2016–17
PhD representative Resources, Environment, and Sustainability Student Society, University of British Columbia	2017–18
Mentor , Planting Science	2017
Judge , Greater Vancouver Regional Science Fair	2017
Co-Founder and Co-Editor-In-Chief , <i>Harvard College Review of Environment & Society</i>	2013–15
Co-Founder and Field Trip Organizer , Harvard College Naturalists Club	2014–16
Men's Captain , Harvard College Running Club	2014–16
Wall Staff , Harvard Boulderling Wall	2014–16
Assistant Director for Sustainability , Harvard National Model United Nations	2013–14
Policy Chair , Harvard Environmental Action Committee	2012–13
Communications Director , Divest Harvard	2014
Media Director , Divest Harvard	2013
Artist , Michigan Botanical Club/Huron Valley Chapter	2007–12
Field trip Leader , Michigan Botanical Club and Washtenaw Audubon Society	2005–12
Field Trip Leader , Arc of Appalachia Preserve System	2012
Drum Major , Chelsea High School Marching Band	2011–12
Co-founder and instructor , Blue Heron Nature Camp, a camp for children to learn about wildlife, plants, & nature crafts	2005–06

RELATED SKILLS

Proficient in: R, Bayesian modeling in Stan, Git, html, css, Jekyll, QGIS ArcGIS, L^AT_EX, ImageJ, OceanView, Adobe InDesign, Adobe Photoshop, Emacs, Inkscape, Python, Spanish, MatLab, & spectrophotometry, bird and plant identification, [nature illustration](#)