Harold N. Eyster

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Education

Ph.D., Resources, Environment, and Sustainability 2016–2021
University of British Colubmbia Vancouver, BC
Thesis: *Leveraging human–nature relationships towards sustainable pathways.* 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

Positions

Gund Postdoctoral Fellow 2021–
Gund Institute for Environment, University of Vermont Burlington, VT
Advisors: Dr. Brian Beckage and Dr. Rachelle K. Gould

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*.

Papers in press

Eyster, H. N., Satterfield, T., and K. M. A. Chan. Why people do what they do: an interdisciplinary synthesis of human action theories. *Annual Review of Environment & Resources*.

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., & Beckage, B. (2022). Conifers may ameliorate urban heat waves better than broadleaf trees: Evidence from vancouver, canada. *Atmosphere*, *13*(5), 830. https://doi.org/10.3390/atmos13050830

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.ecochg.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., & Brondízio, 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 Bird Way, by Jennifer Ackerman, The New York Times, The Ubyssey 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

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

Conference presentations

Eyster, H. N., Satterfield, T., and Chan, K. "Why people do what they do: An interdisciplinary synthesis of human action theories." *North American Congress on Conservation Biology*	2022 Reno, NV
Eyster, H. N. "Functional traits reveal how metacommunity processes maintain bird diversity in a human shared landscape." *Joint meeting of the American Ornithological Society and Bird Caribbean*	2022 San Juan, PR
Eyster, H. N. "Using Stan to diagnose and fit high-dimensional multispecies abundance models." *StanConnect Ecology*	2021 -remote-
Eyster, H. N., Satterfield, T., and Chan, K. "Synthesizing human action theories." *Student Conference on Conservation Science*	2019 Cambridge, UK
Eyster, H. N. and Naidoo, R., "Bird & Megafauna Diversity Explain Tourist Visits to African Parks." *International Ornithological Congress*	2018 Vancouver, BC
Eyster, H. N. and Chan, K. "Cultivating Conservationists: Using social science models to build conservation capacity." *North American Congress on Conservation Biology*	2018 Toronto, ON

Eyster, H. N.and Chan, K. "A framework for using eBird observer data to model human values for bird conservation." *Joint meeting of the American Ornithological Society and the Society of Canadian Ornithologists* — 2017, East Lansing, MI

Eyster, H. N."Rothschildia (Saturniidae) transparent 'windows' function to mimic avian predator, not to aid in dead leaf camouflage." *100th meeting of the Ecological Society of America* — 2015, Baltimore, MD

Eyster, H. N."Tolmie's MacGillivray's Warbler: the story of a name." *91st meeting of the Wilson Ornithological Society* — 2010, Geneva, NY

Departmental talks

Eyster, H. N. Understanding how cities might support birds, people, and climate. *Postdoctoral Research Conference* — 2022, Burlington, VT

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." *Pacific Wildlife Research Centre Seminar Series* — 2021, -remote-

Eyster, H. N. "Using genetic distinctness to motivate people to conserve a widespread species." *Institute for Resources Environment and Sustainability Departmental Seminar, University of British Columbia* — 2020, Vancouver, BC

Eyster, H. N.. "Conservation through the lens of human–nature relationships." *Conservation Spotlight Seminar Series, University of British Columbia* — 2020, Vancouver, BC

Public talks

Eyster, H. N., Bastos, J., Cant, M., Luszcz, T. "Birds and Cats: Innovative Solutions for Finding Common Ground." *Vancouver Bird Week* — 2020, Vancouver, BC

Research Assistantships

Research Assistant—Avian camouflage, pigmentation, vision, and evolution with Dr. M. C. Stoddard — 2013–16
Harvard University Department of Organismic and Evolutionary Biology and Princeton Department of Ecology and Evolutionary Biology

Research Assistant—augmented reality in environmental science pedagogy with Dr. Loch Brown — 2016–17
Geography Department, University of British Columbia

Research Assistant—temporal community ecology with Professor Elizabeth Wolkovich — 2014–16
Harvard University Department of Organismic and Evolutionary Biology and Arnold Arboretum

Conservation Bird Artist — 2014
Fundacion de Conservacion Jocotoco (Ecuador)

Wildlife Field Technician—conducted field surveys of Great Gray Owls and Peregrine Falcons — 2012
Yosemite National Park, US National Park Service

Intern—conducted prescribed burns, removed invasive species, collected native seeds, etc. — 2009–10
Natural Area Preservation, Division of the City of Ann Arbor, MI

Intern—researched concentrated animal feeding operations and helped design the 2009–10 Michigan Environmental Briefing Book — 2009
Michigan League of Conservation Voters, Ann Arbor, MI

Teaching & Supervision

Supervisor for three undergraduate research assistants — 2022
Urban bird diversity

Supervisor for one undergraduate research assistant — 2022
Urban aerial imagery georeferencing

Co-supervisor with Kai Chan for undergraduate researcher — 2020–21
Urban epiphyte diversity, University of British Columbia

Co-supervisor with Kai Chan for undergraduate researcher — 2021
Remote sensing tree identification, University of British Columbia

Guest Lecturer—ENVS 201: Research Methods 2021
Rubenstein School of Environment and Natural Resources, University of Vermont

Teaching Assistant—Agroecology I: Introduction to principles and techniques 2019
Faculty of Land and Food Systems, University of British Columbia

Teaching Assistant—Introduction to Environmental Science 2016–17
Dept. of Earth, Oceans, and Atmospheric Science, University of British Columbia

Teaching Assistant—Assisted with workshop on Bayesian inference language Stan 2018
Biodiversity Research Center, University of British Columbia

Awards and Scholarships

Environment and Climate Change Canada (co-PI with Brian Beckage)	CAD $100,000	2021–3
Gund Postdoctoral Fellowship	USD $114,500	2021–3
Biodiversity Research: Integrative Training and Education Internship	CAD $6,000	2020–1
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 (declined)	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
World Atlatl Champion, youth division		2009
American Birding Association Young Birder of the Year		2009

Service

Abstract reviewer, *North American Congress for Conservation Biology* 2022

Committee member, *Cats and Birds Subcommittee, Vancouver Parks Board* 2020–

Co-Founder, Taskforce Member, *Society for Conservation Biology Disciplinary Inclusion Taskforce* 2020–22

Contributing author, *Intergovernmental Panel on Biodiversity and Ecosystem Services* Global Assessment–Chapter 5: Pathways towards a Sustainable Future 2019

Contributing author, *Intergovernmental Panel on Biodiversity and Ecosystem Services* Values Assessment–Chapter 4: Indigenous protected spaces case studies 2020

Contributing author, *Intergovernmental Panel on Biodiversity and Ecosystem Services* Values Assessment–Chapter 4: Protected Area Case Study 2020

Reviewer, *Biological Conservation (1), Ambio (4), Proceedings of the Royal Society B: Biological Sciences (2), People and Nature (1), Ecosystems and People (2)* 2019–

Mentor, Research Experience for undergraduates (REX), University of British Columbia 2019–20

Trustee, Canadian Union of Public Employees Local 2278 (TAs) 2016–17
University of British Columbia

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, *Harvard College Review of Environment & Society*	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 Bouldering 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 with: Linux, R, Bayesian modeling in Stan, Git, Stella, html, css, Jekyll, QGIS ArcGIS, PyQGIS, LaTeX, ImageJ, OceanView, Adobe InDesign, Adobe Photoshop, Emacs, Inkscape, Python, Spanish, MatLab, spectrophotometry, bird and plant identification, & nature illustration