

# HAROLD N. EYSTER

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## EDUCATION

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### **Ph.D. candidate, Resources, Environment, and Sustainability**

*University of British Columbia*

Advisor: Dr. Kai Chan

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

Expected graduation:

Summer 2021

Vancouver, BC

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

*Harvard University*

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

2012–2016

Cambridge, MA

## PUBLICATIONS

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### PAPERS CURRENTLY UNDER PEER REVIEW

- Eyster, H. N., P. Olmsted, R. Naidoo, and K. M. A. Chan. Motivating conservation even for widespread species using genetic uniqueness and relational values. *Conservation Biology*.
- Eyster, H. N., Wolkovich, E. M. Germination traits largely do not evolve post-invasion: Comparisons in the native and introduced range of seven herbaceous plant species. *Climate Change Ecology*.
- Kreitzman, M., H. N. Eyster, M. Mitchell, A. Czajewski, K. Keeley, S. Smukler, N. Sullivan, A. Verster, & K. M. A. Chan. Perennial polycultures in the US Midwest have multiple ecosystem benefits but produce little food yet. *Ecological Monographs*.

### PEER-REVIEWED PUBLICATIONS

- Chan, Kai M A, David R. Boyd, Rachelle K. Gould, Jens Jetzkowitz, Jianguo Liu, Barbara Muraca, Robin Naidoo, Paige Olmsted, Terre Satterfield, Odirilwe Selomane, Gerald G. Singh, Rashid Sumaila, Hien T. Ngo, Agni Klintoni Boedhihartono, John Agard, Ana Paula D. Aguiar, Dolors Armenteras, Lenke Balint, Christopher Barrington-Leigh, William W. L. Cheung, Sandra Diaz, John Driscoll, Karen Esler, Harold Eyster, Edward J. Geger, Shizuka Hashimoto, Gladys Cecilia Hernández Pedraza, Thomas Hickler, Marcel Kok, Tanya Lazarova, Assem A. A. Mohamed, Mike Murray-Hudson, Patrick O'Farrell, Ignacio Palomo, Ali Kerem Sarsel, Ralf Seppelt, Josef Settele, Bernardo Strassburg, Dayuan Xue, and Eduardo S. Brondizio (July 2020). "Levers and leverage points for pathways to sustainability". In: *People and Nature* 2.3, pp. 693–717.
- Stoddard, Mary Caswell, Harold N. Eyster, Benedict G. Hogan, Dylan H. Morris, Edward R. Soucy, and David W. Inouye (June 2020). "Wild hummingbirds discriminate nonspectral colors". In: *Proceedings of the National Academy of Sciences* 117.26, pp. 15112–15122.
- Stoddard, Mary Caswell, Audrey E Miller, Harold N Eyster, Derya Akkaynak, and Mary Caswell Stoddard (2018). "I see your false colours : how artificial stimuli appear to different animal viewers". In: *Interface Focus* 1.9. ISSN: 2042-8898.
- Stoddard, Mary Caswell, Krisztina Kupán, Harold N. Eyster, Wendoly Rojas-Abreu, Medardo Cruz-López, Martín Alejandro Serrano-Meneses, and Clemens Küpper (2016). "Camouflage and Clutch Survival in Plovers and Terns". In: *Scientific Reports* 6.January, p. 32059. ISSN: 2045-2322.

### UNITED NATIONS REPORTS, CONTRIBUTING AUTHOR

Chan, Kai M. A., John Agard, Jianguo Liu, Ana Paula D. de Aguiar, Dolors Armenteras, Agni Klintoni Boedhihartono, William W. L. Cheung, Shizuka Hashimoto, Gladys Cecilia Hernández Pedraza, Thomas Hickler, Jens Jetzkowitz, Marcel Kok, Mike Murray-Hudson, Patrick O’Farrell, Terre Satterfield, Ali Kerem Saysel, Ralf Seppelt, Bernardo Strassburg, Dayuan Xue, Odirilwe Selomane, Lenke Balint, and Assem Mohamed (2019). “Pathways towards a Sustainable Future”. In: *Global assessment report of the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services*. Ed. by E. S. Brondízio, J. Settele, S. Díaz, and H. Ngo. Bonn, Germany: IPBES. Chap. 5. ISBN: 978-3-947851-20-1.

MEIDA COVERAGE: RESEARCH FEATURED IN, AMONG OTHERS:

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

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### PANELS ORGANIZED

Chan, K., **Eyster, H.**, Gould, R., & Hogberg, J. “Fostering Inclusive Conservation: Emerging approaches for broadening conservation constituencies.” *North American Congress on Conservation Biology* 2018  
Toronto, ON

### PAPERS PRESENTED

**Eyster, H.** and Satterfield, T., and Chan, K. “Synthesizing human action theories.” *Student Conference on Conservation Science* 2019  
Cambridge, UK  
**Eyster, H.** and Naidoo, R., “Bird & Megafauna Diversity Explain Tourist Visits to African Parks.” *International Ornithological Congress* 2018  
Vancouver, BC  
**Eyster, H.** and Chan, K. “Cultivating Conservationists: Using social science models to build conservation capacity.” *North American Congress on Conservation Biology* 2018  
Toronto, ON  
**Eyster, H.** 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.** “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.** “Tolmie’s MacGillivray’s Warbler: the story of a name.” *91st meeting of the Wilson Ornithological Society* 2010  
Geneva, NY

### DEPARTMENTAL TALKS

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  
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**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

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<b>Research Assistant</b> —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
<b>Research Assistant</b> —augmented reality in environmental science pedagogy with Dr. Loch Brown <i>Geography Department, University of British Columbia</i>	2016-17
<b>Research Assistant</b> —temporal community ecology with Professor Elizabeth Wolkovich <i>Harvard University Department of Organismic and Evolutionary Biology and Arnold Arboretum</i>	2014-16
<b>Conservation Bird Artist</b> <i>Fundacion de Conservacion Jocotoco (Ecuador)</i>	2014
<b>Wildlife Field Technician</b> —conducted field surveys of Great Gray Owls and Peregrine Falcons <i>Yosemite National Park, US National Park Service</i>	2012
<b>Intern</b> —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
<b>Intern</b> —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

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<b>Co-supervisor</b> with Kai Chan for undergraduate researcher <i>Urban epiphyte diversity, University of British Columbia</i>	2020–21
<b>Teaching Assistant</b> —Agroecology I: Introduction to principles and techniques <i>Faculty of Land and Food Systems, University of British Columbia</i>	2019
<b>Teaching Assistant</b> —Introduction to Environmental Science <i>Dept. of Earth, Oceans, and Atmospheric Science, University of British Columbia</i>	2016-17
<b>Teaching Assistant</b> —Assisted with workshop on Bayesian inference language Stan <i>Biodiversity Research Center, University of British Columbia</i>	2018

## AWARDS AND SCHOLARSHIPS

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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

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

## RELATED SKILLS

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Proficient in: R, Bayesian modeling in Stan, Git, html, css, Jekyll, QGIS ArcGIS, L<sup>A</sup>T<sub>E</sub>X, ImageJ, OceanView, Adobe InDesign, Adobe Photoshop, Emacs, Inkscape, Python, Spanish, MatLab, & spectrophotometry, bird and plant identification, nature illustration