

ELEANOR R. STERN

Curriculum Vitae

estern@student.unimelb.edu.au
eleanor.r.stern@gmail.com
[University of Melbourne: QAECO Lab](#)
[Google Scholar](#)
[Web Of Science](#)



EDUCATION

Degrees

Institution	Degree	Date	Field of Study
University of Alberta	Bachelor of Science <i>with Distinction</i>	May 2019	Environmental and Conservation Sciences, Majoring in Conservation Biology
McGill University	Master of Science (Thesis)	October 2022	Renewable Resources (Wildlife Biology)
University of Melbourne	Doctor of Philosophy in Science	Ongoing	Population Ecology

RESEARCH

Research Experience

University of Melbourne, School of Agriculture, Food, and Ecosystem Sciences. PhD Student. **Supervisors:** Michael McCarthy, Peter Vesk, Chris Clements (University of Bristol, external supervisor). *Using Paramecium microcosms to experimentally test comparative performance of GLM, BRT, and DRM based Species Distribution Models in climate change and range-expanding conditions.* 2022-2026

McGill University, Department of Natural Resources. MSc Student. **Supervisors:** Murray Humphries, Jeffrey Cardille. *Mixed-methods, community-led project using quantitative methods to model moose habitat use in logged forests based on GPS collar data and Indigenous Knowledge from participatory mapping workshops.* 2022-2022

University of Alberta, Department of Biosciences. Undergraduate Researcher. **Supervisor:** Evelyn Merrill. *Modelling spread of Chronic Wasting Disease in mule deer using ALCES, a forecasting/backcasting software, based on population models, step selection functions, and resource selection functions.* 2018-2019

University of Alberta, Department of Renewable Resources. Undergraduate Researcher. **Supervisor:** Scott Neilsen. *Assessing the impact of seismic lines (narrow linear disturbances) on boreal forest sunlight and wind.* 2017-2018

University of Alberta, Department of Geophysics. Undergraduate Research Assistant. **Supervisor:** Jeffrey Gu. *Developing a MATLAB script to input seismic waveform data and isolate the coda and attenuation.* 2013

Theses

Effects of narrow linear disturbances on light and wind in fragmented boreal forests in Northeastern Alberta B.Sc.

Modeling effects of landscape changes on habitat carrying capacity and dispersal on population trajectories of mule deer (*Odocoileus hemionus*) population in Alberta, Canada B.Sc.

Wildlife science inclusive of local priorities and knowledge co-production: moose habitat selection in the Adapted Forestry Regime of Eeyou Istchee, Northern Quebec M.Sc
[\(online link – document preview\)](#)

Publications

1. **Stern, E.R.**, Clements, C. F., Vesk, Peter A., McCarthy, Michael A. The Contribution of Microcosms to Conservation Biology. *In Review*.
2. Badry, N.A., MacMillan, G.A., **Stern, E.R.** et al. (2023). Boundary Spanning Methodological Approaches for Collaborative Moose Governance in Eeyou Istchee. *Environmental Management*, 74: 132-147. URL: <https://doi.org/10.1007/s00267-023-01918-6>
3. **Stern, E.R.**, & Humphries, M.M. (2022). Interweaving local, expert, and Indigenous knowledge into quantitative wildlife analyses: a systematic review. *Biological Conservation*, 266, 109444. URL: <https://doi.org/10.1016/j.biocon.2021.109444>
4. **Stern, E.R.**, Riva, F., and Nielsen, S.E. Effects of narrow linear disturbances on light and wind in fragmented boreal forests in Northeastern Alberta. *Forests*, vol. 9, no. 8, 2018, pp. 486. URL: <https://doi.org/10.3390/f9080486>

Grants, Scholarships, and Research Funding

\$2,500 AUD	SAFES Travel Award, <i>University of Melbourne</i>	2024
\$112,500 AUD	Research Training Program Scholarship, <i>Government of Australia</i>	2022 - 2026
\$6,500 AUD	Rowden White Scholarship, <i>University of Melbourne</i>	2022
\$33,000 CAD	M.Sc. Research Stipend, <i>McGill University</i>	2020-2022
\$6,000 CAD	Undergraduate Student Research Grant, <i>University of Alberta</i>	2018
\$6,000 CAD	Undergraduate Student Research Award, <i>Natural Sciences & Engineering Research Council of Canada</i>	2017
\$1,000 CAD	The Suzanne Elizabeth Abele Memorial Award, <i>University of Alberta</i>	2017
\$3,500 CAD	John & Eileen Jorgens Scholarship, <i>University of Alberta</i>	2017
\$2,500 CAD	Alexander Rutherford Scholarship, <i>Government of Alberta</i>	2012
\$1,000 CAD	Faculty of Science Academic Excellence Scholarship, <i>University of Alberta</i>	2012
\$1,000 CAD	University of Alberta Academic Excellence Scholarship, <i>University of Alberta</i>	2012

Awards

School of Agriculture, Food, and Ecosystem Sciences Community Award (\$500)	2024
School of Agriculture, Food, and Ecosystem Sciences Leadership Award (\$500)	2024
Deans List & First Class Standing	2019
First Class Standing	2018

Deans List & First Class Standing 2017

AP National Scholar 2012

Committees, Leadership, and Service

Research and Graduate Research Committee, *Graduate Research Representative*, University of Melbourne 2024-2025

Graduate Researchers of Agriculture, Food, and Ecosystem Sciences (Graduate Student Union), *Chair*, University of Melbourne 2024 - 2025

Grade 10 Work Experience Program, *Guest Speaker*, University of Melbourne 2024

School of Agriculture, Food, and Ecosystem Sciences Graduate Research Conference, *Planning Committee Chair*, University of Melbourne 2024

Graduate Researchers of Agriculture, Food, and Ecosystem Sciences (Graduate Student Union), *Secretary*, University of Melbourne 2023-2024

McGill Natural Resource Sciences Virtual Art Show, *Planning Committee*, McGill University 2020

Peer Review

Conservation Biology, Global Change Biology, Conservation Science and Practice

Field Experience

Northern Quebec, Canada. 6 week duration, included expert elicitation with Indigenous land-users in Nemaska and Mistassini. 2021

Wainright, Canada. 1 week duration, included transects and pellet counts for deer, moose, elk, and coyote. 2019

Northern Alberta, Canada. 6 week duration, included site selection and scoping, data collection, deploying and recovering data loggers at study sites. 2017

Lac La Biche, Canada. 4 week duration, field intensive course. 2015

Alberta, Canada. Multiple day-trips including retrieving data from below-ground seismic stations across Alberta. 2013

Posters and Presentations

Contributed Oral Presentation, “Testing big models with small systems: using experimental microcosms to assess species distribution models”, *Victorian Biodiversity Conference* Melbourne, Australia, 2024

Contributed Oral Presentation, “Microcosms for Macro-problems: the contribution of miniature experimental systems to conservation biology research”, *Ecological Society of Australia* Melbourne, Australia, 2024

Contributed Oral Presentation, “Microcosms for Macro-problems: the contribution of miniature experimental systems to conservation biology research”, *Ecological Society of America* Long Beach, USA, 2024

Poster Presentation. “Testing big models with small systems: using experimental microcosms to assess species distribution models”. *Ecological Society of Australia* Darwin, Australia, 2023

Contributed Oral Presentation, “Interweaving local, expert, and Indigenous knowledge into quantitative wildlife analyses: a systematic review”. *Ecological Society of America* Montreal, Canada, 2022

Poster Presentation, “Modeling Sensitivity of Mule Deer Populations to Landscape Changes,” *The Alberta Chapter of the Wildlife Society Conference* Canmore, Canada, 2019.

Poster Presentation, “Modeling Spread of Chronic Wasting Disease in Mule Deer,” *The Wildlife Society 25th Conference* Cleveland, USA, 2018.

PROFESSIONAL EXPERIENCE

Research Associate, University of Melbourne. **Supervisor:** Chris M. Baker. Assisted with grant material preparation including writing and editing project summaries and personal profile material for Australian Research Council Discovery Grant and Center of Research Excellence grant. Assisted with preparation of academic lecturer job application material. 2024

Research Associate, University of Melbourne & Plant Health Australia, **Supervisor:** Emma Hudgins. Research and preparation of Dutch Elm Disease 2024

Surveillance Protocol for Australia, including data collection and summarisation, analyses and writing.

Research Assistant, McGill University. **Supervisor:** Murray Humphries. 2020
Preparing teaching material for online delivery for Advanced Fish and Wildlife Management, including debugging lab/practical scripts, digitising material, and updating teaching material.

Contract Researcher, EnviroStats Canada. **Supervisor:** Stefan Schreiber. 2020
Performing systematic review of water quality monitoring methods.

Research Assistant, University of Alberta, **Supervisor:** Evelyn Merrill. 2019
CWD Management Project, involved modelling spread of CWD in mule deer in collaboration with the software company ALCES to develop new uses for their forecasting software.

Contract Researcher, Alberta Environment and Parks, **Supervisor:** Anne Hubbs. 2018-2019
CWD Management Project, involved modelling spread of CWD in mule deer in collaboration with the software company ALCES to develop new uses for their forecasting software.

TEACHING

Course Design

NRSC 401 (Advanced Fish and Wildlife Management – McGill University). 2020
Adapted lab material for online learning. Rewrote and expanded lab material, wrote new modules, created exercises and assessment questions, & created data for exercises.

NRSC 684 (Science Communication Special Course – McGill University). 2021
Co-designer of Science Communication course along with Supervisor Murray Humphries, including course framework, objectives, and outcomes, lecture material, assignment planning, & organizing guest lectures.

Teaching Experience

BIOL 10010/10008 (*Foundational Biology: Life's Complexity*) **Practicals,** 2023-2024
University of Melbourne. Demonstrator, Lead Demonstrator, Technical Lead. *Responsible for delivering prac/lab content; organising, coordinating, and training casual demonstrators; involved in planning and preparation of practical materials; and supervising students and demonstrators during outdoor practicals.*

BIOL 10010/10008 (<i>Foundational Biology: Life's Complexity</i>) Workshops and Tutorials , University of Melbourne. Demonstrator, Lead Demonstrator. <i>Responsible for delivering workshop/tutorial material.</i>	2023-2024
BIOL 10002 (<i>Biomolecules and Cells</i>) Practicals , University of Melbourne. Demonstrator.	2023-2024
BIOL 10002 (<i>Biomolecules and Cells</i>) Workshops and Tutorials , University of Melbourne. Demonstrator.	2023-2024
EVSC 90014 (<i>Environmental Risk Assessment Masters Level</i>) Practicals , University of Melbourne. Demonstrator	2024
EVSC 30003 (<i>Environmental Risk Assessment</i>) Practicals , University of Melbourne. Demonstrator	2023-2024
BIOL 20025 (<i>Second Year Ecology</i>) Practicals , University of Bristol. Guest demonstrator.	2023
NRSC 401 (<i>Advanced Fish and Wildlife Management</i>) Practicals , McGill University. Lead Teaching Assistant / Demonstrator. <i>Responsible for delivering lab/prac material, making lab/prac instructional presentations, creating rubrics for assignments, creating assignments and assignment questions, marking assignments, grading written assignments and oral presentations, making groups for group assignments, and providing help sessions.</i>	2021

TRAINING, EDUCATION, AND SKILLS

Workshop Attendance

The Association of Graduate Students Employed at McGill (AGSEM) Teaching Assistant Training	2021
<ol style="list-style-type: none">i. Fostering Equity Centred Classroom Environmentsii. Planning/Leading Effective Conferences/Discussionsiii. Designing and Delivering Effective Lecturesiv. Grading in the Sciencesv. Promoting Student Engagementvi. Accessibility in the Classroom: How to be an Inclusive TA	
McGill University T-Pulse Graduate Teaching Assistant Workshop	2020
<ol style="list-style-type: none">i. Module 1: Learning Objectives and Teaching Strategiesii. Module 2: Grading and Feedbackiii. Module 3: Diversity & Inclusion	
Winter Tracking and Telemetry, Alberta Chapter of the Wildlife Society	2019

Professional Training

Wilderness First Aid, St. John Ambulance & University of Alberta	2019
Standard First Aid, St. John Ambulance & University of Alberta	2018
Class 5 Electrofishing	2016

Computational Skills

Programming:	R (Intermediate-Advanced), Python (Intermediate), Matlab (Introductory), ArcPy (Intermediate)
GIS:	ESRI ArcGIS (Advanced), R-based GIS (Intermediate-Advanced)
Software:	ALCES (Advanced), Marxan (Introductory), Maxent (Introductory), Zonation (Introductory)
Applications:	Adobe Photoshop (Intermediate), Microsoft Excel (Advanced), Microsoft Word (Advanced), Microsoft Terminal, MacOSX Terminal