


Justis Henault (he/him) - Independent Researcher: Species-at-Risk

August 2025

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Canadian and Métis (Indigenous) Citizen

EDUCATION

9/2017 – 2/2022

Master of Science in Bioscience, Technology and Public Policy

Dept. of Biology, University of Winnipeg; MB, Canada (Dr. Richard Westwood)

Thesis: Endangered *Oarisma poweshiek* butterfly larval foraging and adult habitat interactions in Manitoba, Canada. <https://doi.org/10.36939/ir.202112221602>

10/2020 – 9/2021

Higher Education Teaching Certificate

Professional, Applied and Continuing Education, University of Winnipeg; MB, Canada.

9/2012 – 4/2017

Bachelor of Science Honours, Biology

Dept. of Biology, University of Winnipeg; MB, Canada (Dr. Richard Westwood)

Thesis: Association of the endangered Poweshiek skipperling, *Oarisma poweshiek*, with potential larval host species in Manitoba.

Professional and personal development

2/2023-4/2023

Equity, Diversity, and Inclusion in Research Program Certificate

6 learning sessions; University of Winnipeg

Skill: Actively co-create empowering research spaces.

6/2021-8/2021

MobilizeU: Knowledge Mobilization Certificate

8 weekly sessions; University of Winnipeg, Memorial University of Newfoundland and York University

Skill: Articulate research to academic and public communities.

2/2021

Indigenous Insights

7 hr workshop; Facilitated by: Christine M'Lot, Sarra Deane and Steven Greyeyes; University of Winnipeg, Strongfront.tv

Learned about and connected with Indigenous history in Canada (including the Truth and Reconciliation Commission).

2/2020-7/2023

Additional 5 learning workshops/courses.

Programs with varying proficiency

Statistical analysis

ArcGIS Pro, Canoco, PC-ORD, QGIS, RStudio, Species Diversity and Richness, SPSS Statistics

Data visualisation

Adobe Illustrator, Inkscape, Sigmaplot

Video production

Adobe Premiere Pro

CAREER EXPERIENCE

- 5/2021-present **Independent Researcher (Sole Proprietor Business Owner);** Insect-at-Risk surveys
- Focal species: Lepidoptera – *Anisota manitobensis*, *Catocala whitneyi*, *Danaus plexippus*, *Erynnis martialis*, *Hesperia dacotae*, *Hesperia ottoe*, *Hesperia pahaska*, *Maestor oslari*, *Maestor simius*, *Melaporphyria immortua*, *Oarisma poweshiek*, *Papaipema aweme*, *Schinia avemensis*, *Schinia lucens*, *Schinia septentrionalis*, *Schinia verna*; Hemiptera - *Aflexia rubranura*.
- Duties: Plan (research design, budget, permits) and conduct surveys; collect, analyse, visualise and curate data (wildlife, habitat and geospatial); generate and submit reports
- Contributions: Solicited or un-solicited. Sole researcher except for one.
- Worked with: Canadian Wildlife Service and Committee on the Status of Endangered Wildlife in Canada (both under Environment and Climate Change Canada), Nature Conservancy of Canada
- Products: 10 contracts with accompanying reports (additional contract in-preparation from 2024 work)
- 1/2019 – 4/2021 **Senior Research Assistant**
Dept. of Biology, University of Winnipeg, MB, Canada.
Dr. Richard Westwood; Dept. of Biology, University of Winnipeg.
- 5/2015 – 12/2018 Research Assistant - Similar to Senior, but with less responsibility.
- Focal species: Lepidoptera – *Anisota manitobensis*, *Erynnis martialis*, *Hesperia dacotae*, *Oarisma poweshiek*
- Duties: Adult survey, mark-recapture, habitat assessment, prediction of the start of adult flight periods of endangered or at-risk Lepidopteran species on an annual basis, digitally catalogue moth collections (prepare and [re]identify specimens, catalogue).
- Contributions: Collaboratively plan and conduct surveys; collect, analyse, visualise and curate data (wildlife, habitat and geospatial); generate and submit reports.
- Worked with: Canadian Wildlife Service, Nature Conservancy of Canada

Research contributions*Peer-reviewed*

- Henault, J. and Westwood, R. **2023**. Adult activities of endangered *Oarisma poweshiek* butterflies are associated with a soil moisture gradient in tall grass prairie in Manitoba, Canada. *Journal of Insect Conservation*, 27: 825–839. <https://doi.org/10.1007/s10841-023-00502-x> (read-only link: <https://rdcu.be/dkqwo>)
- Henault, J. and Westwood, R. **2022**. Endangered *Oarisma poweshiek* larvae vary their graminoid forage in Manitoba, Canada. *The Canadian Entomologist*, 154: E49. <https://doi.org/10.4039/tce.2022.34> (open access).
- Dupont-Morozoff, J.M., Westwood, R. and Henault, J. **2022**. An assessment of prairie management practices for maintaining habitat quality for the endangered Poweshiek skipperling butterfly in Canada. *The American Midland Naturalist*, 188: 74-101. <https://doi.org/10.1674/0003-0031-188.1.74>. Institutional repository open access: <https://hdl.handle.net/10680/2032>.
- Henault, J., Norris, D.R., Linton, J.E., and Westwood, R. **2022**. Adult oviposition, larval host plants and shelter use of the endangered Mottled duskywing (*Erynnis martialis*) in Canada. *The Journal of the Lepidopterists' Society*, 76: 43-55. <https://doi.org/10.18473/lepi.76i1.a6>; addendum 2022, 76:160. <https://doi.org/10.18473/lepi.76i2.a11>. Institutional repository open access: <https://winnspace.uwinnipeg.ca/handle/10680/2029>.

Research contributions continued*Non peer-reviewed*

Henault, J. 2025. Lepidopteran and leafhopper surveys in Manitoba 2024. Prepared for Canadian Wildlife Service, Environment and Climate Change Canada. Text (25 pp.), data, geospatial and imagery files.

Henault, J. 2024. COSEWIC 2024 Fieldwork Summary for Oslar's Roadside Skipper (*Mastor oslari*), Pahaska Skipper (*Hesperia pahaska*) and Simius Roadside Skipper (*Mastor simius*). Committee on the Status of Endangered Wildlife in Canada. Ottawa.

COSEWIC. Status report author; 2022-2024. COSEWIC assessment and status report on the Leadplant flower moth *Schinia lucens* in Canada. Committee on the Status of Endangered Wildlife in Canada. Ottawa. Report shelved.

Canadian Endangered Species Conservation Council. 2022. Wild species 2020: The general status of species in Canada. National General Status Working Group. ISBN 978-1-7387673-0-4 Available from <https://www.wildspecies.ca/reports> (accessed 23 December 2022).

2018 – present Additional 34 contributions (26 led).

Journal reviewed for

2022 – Proceedings of the Entomological Society of Manitoba

Academic presentations (I communicated all presentations)

Henault, J., Foster, R., Neufeld, C. and Lee, S. 2024. Range extension of Red-tailed Leafhopper (*Aflexia rubranura*) in Manitoba. **80th Annual Meeting of the Entomological Society of Manitoba; Winnipeg, MB, Canada.**

Dupont-Morozoff, J., Westwood, R. and Henault, J. 2022. An assessment of prairie management practices for maintaining habitat quality for the endangered Poweshiek skipperling butterfly in Canada. **78th Annual Meeting Entomological Society of Manitoba; Winnipeg, MB, Canada.**

Henault, J. and Westwood, R. 2021. Plant host species, larval foraging behaviour, adult habitat use of and forest stewardship opportunities for the western endangered Mottled duskywing population in Manitoba. **The Lepidopterists' Society, Southern Lepidopterists' Society, Association for Tropical Lepidoptera and Societas Europaea Lepidopterologica Joint Virtual Meeting 2021.** Online.

Henault, J. and Westwood, R. 2018. Assessment of oviposition behaviour and larval microhabitat location for potential reintroduction of endangered Poweshiek Skipperling (*Oarisma poweshiek*) in Manitoba, Canada. **2018 Entomological Society of America, Entomological Society of Canada and Entomological Society of British Columbia Joint Annual Meeting, Vancouver, BC, Canada.**

2017 - present Additional 15 academic presentations at 14 additional conferences; plus 1 accepted but unable to attend.

CERTIFICATIONS

2022-2025

Emergency First Aid CPR-C and AED (CSA Basic)

St. John's Ambulance; hosted at University of Winnipeg

2022

Pleasure Craft Operator Card (boat license)

Accredited by Lifesaving Society for Transport Canada

2021-2024

Chainsaw Safe Handling, Maintenance and Practices

Ken Fosty; Accredited by Workplace Safety North

VOLUNTEERING*

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| 1/2025-present | <u>COSEWIC Arthropods Species Subcommittee</u> Early Career Member |
| 1/2023-present | <u>IUCN SSC Butterfly and Moth Specialist Group</u> Member; 5 hours |
| 12/2024 – present ⁽¹⁾ 10/2022 – present ^(2,3,4) 2/2018 – present ⁽⁵⁾ | <u>Poweshiek Skipperling International Partnership</u> (PSIP) and Canadian equivalent ¹ Editor of Poweshiek Post, ² Member of Steering Committee, ³ Co-chair of Science Support Team, ⁴ Data Sharing Subteam, ⁵ Member of Partnership; 62 hrs |

Contributions: Collaboratively guide the PSIP to maintain suitable habitat and prevent the extinction of Poweshiek skipperlings (*Oarisma poweshiek*), via discussions (i.e., conferences, calls) and shared documents with local and international conservation specialists in academia, non-profits, multiple levels of government and as independents.

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| 1/2024-present 11/2023-5/2025 11/2022-11/2024 10/2022-present 10/2022 2021-2022 2020-2022 | <u>Entomological Society of Manitoba</u> (77 hrs) Co-Editor of Proceedings of the Entomological Society of Manitoba (Co-)Chair of Annual Meeting (Chair in 2023 and Co-Chair in 2024) Member-At-Large Co-Editor of Newsletter Member of Annual Meeting Organising Committee Judged student paper (2021), poster (2022) Chaired scientific paper sessions |
| 2023-present | <u>Entomological Society of Canada</u> (4 hrs) Judge on student awards committee |
| 7/2016, 2017, 2022, 2023 | Guided hikes interpreting the tall grass prairie and ways to help! Monarch Butterfly Festival, Living Prairie Museum. Ages 5 to 70; 5 – 20 per hike (2-3 hikes/year) |

*events followed by recorded hours contributed during last year

Community outreach articles

Henault, J. 2023. Flower moths of conservation concern in Manitoba. Nature Manitoba; March Issue.
<https://www.naturemanitoba.ca/news-articles/flower-moths-conservation-concern-manitoba> (accessed 8 March 2023).

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| 2020 – present | 3 additional outreach articles (led all articles). |
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SOCIETIES

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| 2018–present (student 2018-2022) | Entomological Society of Canada |
| 2017–present (student 2017-2022) | Entomological Society of Manitoba |
| 2016–2024 (student 2016-2022) | Lepidopterists' Society |
| 2014–present | Friends of the Living Prairie Museum |

EDUCATING

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| 8/2024-1/2025 10/2022-1/2023 | Contract Academic Staff (taught course) |
| | ENV/BIOL-3471 Forest Ecology; Uni. of Winnipeg; 37 students BIOL-4474 Forest Health and Protection; Uni. of Winnipeg; 21 students |
| 2/2020 | Forest and Prairie Lepidoptera Identification Workshop Uni. of Manitoba; 8 hours; ~25 registrants; with RWestwood and Martine Balcaen |

Supervised student Research Assistants (RA) while providing skill development

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| 2019 Symantha Strempler | <i>Skills:</i> identify endangered butterflies in flight; compare visual traits to identify moth species |
| 2017-2018 Stefanie Sheard | <i>Skills:</i> prepare collected moth specimens |
| 2017-2021: 10 additional RA | <i>Skills:</i> sample vegetation data in the field; identify graminoids in natural habitats; catalogue specimens into digital spreadsheet |

RECOGNITIONS

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| 7/2021 | Entomological Society of Canada Dr. Lloyd M. Dosdall Memorial Scholarship \$1,000, Entomological Society of Canada |
| 12/2020 | Entomological Society of Manitoba Student Competition: Oral Presentation (12 min) Award \$100, Entomological Society of Manitoba |
| 10/2019 and 11/2020 (two competitions) | EMILI Master of Science Award \$7,500, University of Winnipeg |
| 9/2020 | Graduate Student Travel Grant: Publication \$750, University of Winnipeg |
| 11/2018 | Graduate Student Travel Grant \$750, The University of Winnipeg |
| 9/2017-9/2018 | Research Manitoba Graduate Scholarship \$17,500, Research Manitoba, University of Winnipeg and Natural Science and Engineering Council |
| 6/2017 – 6/2018 | Gold Medal for Achievement in a Major (Honours) Biology \$0 (received a medal), The University of Winnipeg |
| 2014 - present | Additional 9 recognitions local, institutional and federal (\$19,125); 2 declined |

Media features

Ross, J. 2021. Rare butterfly in Sandilands. **The Carillon**, Volume 76, Number 27 (8 July 2021), Pp. A13.
<https://www.winnipegfreepress.com/the-carillon/local/Rare-butterfly-studied-in-Sandilands-574812331.html>
 (accessed 12 July 2021).

Please reach out for contact info of references, further details of my activities or any questions!