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## CURRICULUM VITAE – Allyson Kate Menzies

**D.O.B** – September 9, 1988 (Manitoba, Canada)

**Citizenship:** Canadian

**Declared Status:** Métis

**Institutional Address:**

School of Environmental Sciences  
University of Guelph  
50 Stone Road East  
Guelph, Ontario, Canada, N1G 2W1

**Email:** allysonmenzies@gmail.com

**Website:** www.allysonmenzies.weebly.com

**Twitter:** @akmenzies

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### LANGUAGE PROFICIENCY:

#### English (Native English Speaker)

Speaking ●●●● Writing ●●●● Reading Comprehension ●●●● Oral Comprehension ●●●●

#### French (Intermediate: B2)

Speaking ●●● Writing ●●● Reading Comprehension ●●●● Oral Comprehension ●●●●

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### HIGHLIGHTS:

- Co-author on 29 published peer-reviewed publications (2 more accepted, 1 in review), 1 peer-reviewed book chapter, and 6 reports for government, NGOs, and/or First Nations
- Postdoctoral work funded by Liber Ero Fellowship Program and Guelph Indigenous Postdoctoral Fellowship. Ph.D. funded by Vanier Canada Graduate Scholarship and W. Garfield Weston Award for Northern Research (all awards and grants totaling > \$620,000)
- Winner of a *Special Recognition Prize for Direct Public Outreach* at McGill (2019)
- Completed a Higher Education Teaching Certificate at the University of Winnipeg
- > 10 years of experience working on collaborative ecological research projects and co-production of knowledge alongside academic and non-academic stakeholders and Indigenous communities

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### CURRENT POSITION:

2021 – present     ***Liber Ero Postdoctoral Fellow***  
*School of Environmental Sciences, University of Guelph, Guelph, ON, Canada*

Research: Prioritizing Indigenous values and weaving knowledge systems in terrestrial wildlife monitoring (Mentors: Dr. Jesse Popp and Amanda Karst (Nature United))

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### EDUCATION:

2021     **Ph.D. in Renewable Resources**  
*Department of Natural Resource Sciences, McGill University – Macdonald Campus, Ste-Anne-de-Bellevue, QC, Canada*

Thesis: Warm bodies in cold places: thermoregulation, activity, and energy expenditure of

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boreal mammals (Supervisor: Dr. M. Humphries)  
Funded by: NSERC Vanier Scholarship and W. Garfield Weston Award for Northern Research

2014 **Higher Education Teaching Certificate**  
*Professional, Applied and Continuing Education (PACE), University of Winnipeg, Winnipeg, MB, Canada*

2014 **M.Sc. in Bioscience, Technology and Public Policy** (G.P.A. = 4.4/4.5)  
*Department of Biology, University of Winnipeg, Winnipeg, MB, Canada*  
Awarded Medal for Graduate Student of Highest Distinction

Thesis: Intra-specific variation in hibernation energetics of big brown bats (*Eptesicus fuscus*)  
(Supervisors: Dr. C. Willis and Dr. J. Franck)  
Funded by: NSERC-CGSM and Manitoba Graduate Scholarship

2011 **B.Sc. Honours – Biopsychology** (G.P.A = 4.3/4.5)  
*Department of Biology, University of Winnipeg, Winnipeg, MB, Canada*

Awarded Gold Medal for Achievement in an Honours Course

Thesis: Does personality correlate with energetics in little brown bats (*Myotis lucifugus*)?  
(Supervisor: Dr. C. Willis)  
Funded by: NSERC USRA x2

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## **PUBLICATIONS:**

### **Peer-Reviewed Journal Publications:**

*7 first author (\* indicated equal contribution of authors)*  
*Google Scholar H-Index: 12, i10-index: 16; Citations: 597*

#### In Prep:

(34) **Menzies A.K.**, Bowles E., McGregor D., Ford A.T., and J.N. Popp. Values-led Approaches to Caring for the Land: Indigenous Perspectives, Practices, and Priorities. In preparation for People and Nature. Anticipated submission November 2022.

(33) Wishart A.E., Boudreau M., and **A.K. Menzies**. Graduate student experiences and perspectives related to conducting thesis research within long-term ecological projects. Rejected with a chance to resubmit at Bioscience (BIOS-22-0077; decision received August 2022).

#### In Review:

(32) Shiratsuru S., Studd E.K., Majchrzak Y.N., Peers M.J.L., **Menzies A.K.**, Derbyshire R., Jung T.S., Krebs C.J., Murray D.L., Boonstra R., and S. Boutin. When death comes: Prey activity is not always predictive of diel mortality patterns 3 and the risk of predation. Submitted to Journal of Animal Ecology (July 2022; JAE-2022-00476)

#### Accepted for Publication:

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(31) Studd E.K., Peers M.J.L., **Menzies A.K.**, Derbyshire R., Majchrzak Y.N., Seguin, J.L., Murray D.L., Dantzer B., Lane J.E., McAdam A.G., Humphries, M.M., and Boutin S. 2022. Behavioural adjustments of predators and prey to wind speed in the boreal forest. Accepted at **Oecologia** (September 2022; OEKO-D-22-00151R1).

(30) Kennah J.L., Peers M.J.L., Vander Wal E., Majchrzak Y.N., **Menzies A.K.**, Studd E.K., Boonstra R., Humphries M.M., Jung T.S., Kenney A.J., Krebs C.J., and S. Boutin. Coat colour mismatch improves survival: energetic advantages exceed lost camouflage. Accepted at **Ecology** (July 2022; ECY22-0733).  
<https://www.biorxiv.org/content/biorxiv/early/2021/09/24/2021.09.24.461654.full.pdf>

### Published:

(29) Majchrzak Y.N., **Menzies A.K.**, Doran-Myers D., Peers M.J.L., Studd E.K., Boonstra R., and S. Boutin. 2022. A method for marking individual animals in motion-triggered camera studies. *Mammalian Biology*.  
<https://doi.org/10.1007/s42991-022-00225-7>

- Highlighted in [University of Alberta News](#)

(28) **Menzies, A.K.**, Bowles, E., Gallant, M., Patterson, H., Kozmic, C., Chiblow, S., McGregor, D., Ford, A., and J.N. Popp. 2022. “I see my culture starting to disappear”: Anishinaabe perspectives on the socioecological impacts of climate change and future research needs. **FACETS** (Årramät Special Issue)7: 509-527.  
<https://doi.org/10.1139/facets-2021-0066>

- Featured in [Windspeaker Media](#), [The Toronto Star](#), [University of Guelph news](#)

(27) **Menzies A.K.**, Studd E.K., Seguin J.L., Derbyshire R.E., Murray D.L., Boutin S., and M.M. Humphries. 2022. Activity, movement, heart rate, and energy expenditure of a cold-climate mesocarnivore, the Canada Lynx. **Canadian Journal of Zoology**. DOI: 10.1139/cjz-2021-0142.

- Selected as “Editors Choice” feature article from this issue.

(26) Brammer J.R., **Menzies A.K.**, Carter L., Chehab N., Giroux-Bougard X., Landry-Cuerrier M., Louise-Leblanc M., Studd E., and M.M. Humphries. 2022. Weighing the importance of body mass in wild food systems. **FACETS**. DOI: 10.1139/facets-2020-0023.

(25) Majchrzak Y.N., Peers M.J.L., Studd E.K., **Menzies A.K.**, Walker P.D., Shiratsuru S., Boonstra R., Humphries M.M., Jung T.S., Kenney A.J., Krebs C.J., Murray D.L., and S. Boutin. 2022. Balancing food acquisition and predation drives demographics in snowshoe hare population cycles. **Ecology Letters**, 00: 1-11.

(24) Peers, M.J.L., Majchrzak, Y.N., Studd, E.K., **Menzies, A.K.**, Kukka, P., Konkolics, S., Boonstra, R., Boutin, S., and T. Jung. 2021. Evaluation of gum-line recession for aging lynx. **The Wildlife Society Bulletin**, 45(4): 706-710.

(23) Doran-Myers D., Kenney A.J., Krebs C.J., Lamb C.T., **Menzies A.K.**, Murray D.L., Studd E.K., Whittington J., and S. Boutin. 2021. Density estimates for Canada lynx vary among estimation methods. **Ecosphere**, 12(10): e03774.

(22) Shiratsuru S., Majchrzak, Y.N., Peers, M.J.L., Studd, E.K., **Menzies, A.K.**, Derbyshire, R.E., Humphries, M.M., Krebs, C.J., Murray, D.L., and S. Boutin. 2021. Food availability and long-term predation risk interactively affect antipredator response. **Ecology**, 102(9): e03456.

(21) Peers M.J.L., Konkolics S., Majchrzak Y.N., **Menzies A.K.**, Studd E.K., Boonstra R., Boutin S., and C.T. Lamb. 2021. vertebrate scavenging dynamics differ between carnivore and herbivore carcasses in the northern boreal forest. **Ecosphere**, 12(8): e03691.

## **Curriculum Vitae – Dr. A.K. Menzies**

- (20) Peers M.J.L., Reimer JR., Majchrzak Y.N., **Menzies A.K.**, Studd E.K., Boonstra R., Kenney A.J., Krebs C.J., O'Donoghue M., and S. Boutin. 2021. Contribution of late-litter juveniles to the population dynamics of snowshoe hares. **Oecologia**, 195 (4): 949-957.
- (19) Studd E.K.\*, Derbyshire R.E.\*, **Menzies A.K.\***, Simms J., Humphries M.M., Murray D.L., and S. Boutin. 2021. The Purr-fect Catch: using accelerometers and audio recorders to document kill rates and hunting behaviour of a small prey specialist, the Canada Lynx. **Methods in Ecology and Evolution**, 1 -11.
- Featured on: [Quirks and Quarks](#), [The Wildlife Society](#), [Canadian Geographic](#), National Wildlife Magazine, [McGill University Press](#), [Gizmodo](#), [CBC Montreal](#), [CBC Lets Go](#)
  - Summarized in [The Conversation](#)
- (18) Peers M.J.L., Majchrzak Y.N., **Menzies A.K.**, Studd E.K., Bastille-Rousseau G., Boonstra R., Humphries M.M., Jung T.S., Kenney A.J., Krebs C.J., Murray D.L., and S. Boutin. 2020. Climate change increases predation risk for a keystone species. **Nature Climate Change**, 1-5.
- (17) **Menzies A.K.**, Studd E.K., Majchrzak Y.N., Peers M.J.L., Boutin S., Dantzer B., Lane J.E., McAdam A.G., and M.M. Humphries. 2020. Body temperature, heart rate, and activity patterns of two boreal homeotherms in winter: homeostasis, allostasis, and ecological coexistence. **Functional Ecology**, 34: 2292-2301.
- Short-listed for Haldane Prize for best paper by an early career researcher in 2020
  - [Functional Ecology spotlight](#)
  - [Functional Ecology Insights blog](#)
- (16) Peers M.J.L., Konkolics S.M., Lamb C.T., Majchrzak Y.N., **Menzies A.K.**, Studd E.K., Boonstra R., Kenney A.J., Krebs C.J., Martinig A.R., McCulloch B., Silva J., Garland L., and S. Boutin. 2020. Prey availability and ambient temperature drive carrion persistence in the boreal forest. **Journal of Animal Ecology**, <https://doi.org/10.1111/1365-2656.13275>. **(Cover article)**
- Featured in [The Wildlife Society Blog](#)
- (15) Studd E.K., **Menzies A.K.**, Siracusa E.R., Dantzer B., Lane J.E., McAdam A.G., Boutin S., and M.M. Humphries. 2020. Optimisation of energetic and reproductive gains explains behavioural responses to environmental variation across seasons and years. **Ecology Letters**, 23(5): 841-850.
- (14) MacMillan G., Falardeau M., Girard C., Dufour-Beausejour S., Lacombe-Bergeron J., **Menzies A.K.**, and D. Henri. 2019. Highlighting the potential of peer-led workshops in training early career researchers for research in an indigenous context. **FACETS**, 4(1): 275-292.
- Associated crowd-sourced document of participatory research resources: [https://docs.google.com/document/d/1SrQkAZpMGEC2uP\\_6Y-Fi8kNar9YYS8c8tg-V6VD0RLE/edit](https://docs.google.com/document/d/1SrQkAZpMGEC2uP_6Y-Fi8kNar9YYS8c8tg-V6VD0RLE/edit)
- (13) Studd E.K., Boudreau M.R., Boutin S., Majchrzak Y.N., **Menzies A.K.**, Murray D.L., Peers M.J.L., Seguin J.L., and M.M. Humphries. 2019. Use of acceleration and acoustics to investigate the influence of moonlight on the behavior of snowshoe hares. **Frontiers in Ecology and Evolution**, 7: 154.
- (12) Jung T\*, Konkolics S\*, Kukka P\*, Majchrzak Y\*, **Menzies A.K.\***, Oakley M.P.\*, Peers M.J.L.\*, and E.K. Studd\*. 2019. Short-term effect of helicopter-based capture on movements of a social ungulate. **Journal of Wildlife Management**, 83(4): 830 – 837.
- (11) Studd E.K., Landry-Cuerrier M., **Menzies A.K.**, Boutin S., McAdam A.G., Dantzer B., Lane, J.E., and M.M. Humphries. 2019. Behavioral classification of low frequency acceleration and temperature data from a free ranging small mammal. **Ecology and Evolution**, 9(1): 619-630.

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- (10) Muise K.A., **Menzies A.K.**, and C.K.R. Willis. 2018. Stress-induced changes in body temperature of silver-haired bats (*Lasionycteris noctivagans*). **Physiology and Behavior**, 194: 356-361.
- (9) Humphries M.M., Studd E.K., **Menzies A.K.**, and S. Boutin. 2017. To everything there is a season: summer-to-winter food webs and the functional traits of keystone species. **Integrative and Comparative Biology**, 57(5): 961-976. **\*cover article**
- (8) Bohn S., Webber Q., Florko K., Paslawski K., Peterson A., Piche J., **Menzies A.K.**, and C.K.R. Willis. 2017. Personality predicts ectoparasite abundance in an asocial sciurid. **Ethology** 123(10): 761-771.
- (7) Levesque D.L., **Menzies A.K.**, Landry-Cuerrier M., Larocque G., and M.M. Humphries. 2017. Embracing heterothermic diversity: non-stationary waveform analysis of temperature variation in endotherms. **Journal of Comparative Physiology B**, 187: 749-757.
- (6) **Menzies A.K.**, Webber Q.R.M, Baloun D.E., McGuire L.P., Muise K.A., Cote D., and C.K.R. Willis. 2016. Metabolic rate, colony size and latitude, but not phylogeny, affect rewarming rates of bats. **Physiology and Behavior**, 164: 361–368.
- (5) **Menzies A.K.**, Timonin M.E., McGuire L.P. and C.K.R Willis. 2013. Personality variation in little brown bats. **PLoS one**, 8(11): e80230.
- (4) Clare E., Symondson W., Broders H., Fabianed F., Frazer E., MacKenzie A., Boughen A., Hamilton R., Willis C.K.R., Martinez-Nunez, F, **Menzies A.K.**, Norquay K.J.O, Brigham M., Poissant J., Rintoul J., Barclay R., and J. Reimer. 2013. The diet of *Myotis lucifugus* across Canada: assessing foraging quality and diet variability. **Molecular Ecology**, 23(15): 3618–3632.
- (3) Willis C.K.R., **Menzies A.K.**, Boyles J.G. and M.S Wojciechowski. 2011. Cutaneous water loss is a plausible explanation for mortality of bats from white-nose syndrome. **Integrative and Comparative Biology**, 51: 364-373.
- (2) Norquay K.J.O., **Menzies A.K.**, McKibbin C.S., Timonin M.E., Baloun D.E., and C.K.R. Willis. 2010. Silver-haired bats (*Lasionycteris noctivagans*) found ensnared on burdock (*Arctium minus*). **Northwestern Naturalist**, 91(3): 339-342.
- (1) Jonasson K.A., Timonin M.E., Norquay K.J.O, **Menzies A.K.**, Dubois J. and C.K.R Willis. 2010. Case study: a little brown bat (*Myotis lucifugus*) survives in the wild with only one foot. **Journal of Wildlife Rehabilitation** 30(3): 27-29.

### **Book Chapters:**

- (1) Dzal Y.A.\*, **Menzies A.K.\***, Webber Q.M.R., and C.K.R. Willis. 2020. Torpor and Tinbergen: Integrating physiological and behavioral traits with ontogeny, phylogenetic history, survival, and fitness to understand heterothermy in bats. In: 50 years of Bat Research: Foundations and New Frontiers. Eds. Lim B., Fenton B., Brigham M., Shahroukh M., Kurta A., Gillam E., Russell A., and J Ortega. **\* indicates equal contribution**

### **Reports:**

- (6) **Menzies, A.K.**, Bowles, E., Khan, J.S., McGregor, D., Ford, A.T., and J.N. Popp. Caring for the land: Indigenous practices, community values, changes over time, and building values-based environmental programs. A report from the “Weaving Indigenous Knowledge systems and Western Science for conservation and management of wildlife and the environment” project. January 2022.

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- (5) **Menzies, A.K.**, Bowles, E., Khan, J.S., McGregor, D., Ford, A.T., and J.N. Popp. Connecting Nations to enhance communication, collaboration, and capacity building related to environmental monitoring. A report from the “Weaving Indigenous Knowledge systems and Western Science for conservation and management of wildlife and the environment” project. January 2022.
- (4) Bowles, E., Khan, J.S., **Menzies, A.K.**, McGregor, D., Ford, A.T., and J.N. Popp. Cultural Keystone Species. A report from the “Weaving Indigenous Knowledge systems and Western Science for conservation and management of wildlife and the environment” project. January 2022.
- (3) Bowles, E., **Menzies, A.K.**, Khan, J.S., McGregor, D., Ford, A.T., and J.N. Popp. Weaving Knowledge Systems. A report from the “Weaving Indigenous Knowledge systems and Western Science for conservation and management of wildlife and the environment” project. January 2022.
- (2) **Menzies A.K.** 2020. Considerations and Recommendations for Initiating Community-led Moose Monitoring Projects in Central and Northern Manitoba. Unpublished Report Prepared for Nature United.
- Elements used to develop Nature United Indigenous Guardians Toolkit:  
<https://www.indigenousguardianstoolkit.ca/>
- (1) Petersen S.D., Florko K.R.N, **Menzies A.K.**, & the IPBCC Advisory Board (2018). Management rationale and options for orphan polar bear cubs in Manitoba. Assiniboine Park Conservancy, Winnipeg, MB. 24 pp.

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### **SCHOLARSHIPS, AWARDS, AND GRANTS:**

(total value of scholarships and grants > \$620,000)

#### *Research Grants:*

##### In Prep:

- (2) NSERC Alliance Grant Program. “Weaving Knowledge Systems for More Effective and Respectful Moose Monitoring and Research in Central Canada”. **Asking for \$1,490,000 CAD.** Principal Investigator: Dr. Jesse Popp. \*I am the primary grant writer and a collaborator on the grant

##### Awarded:

- (1) Guelph Institute of Environmental Research Small Grants Program. Apr 2021. “*Prioritizing Indigenous Values and Knowledge Systems in Environmental Monitoring and Research*”. **\$15,000 CAD.** Principal Investigator: Dr. Jesse Popp. \*I was the primary grant writer and a partner on the grant

#### *Scholarships, Travel Grants, and Awards:*

<u>Award</u>	<u>Value</u>	<u>Location Held</u>	<u>Period Awarded</u>
(20) Liber Ero Postdoctoral Fellowship	\$155,000	University of Guelph	May 2022 – May 2024
(19) University of Guelph Indigenous Postdoctoral Fellowship	\$90,000	University of Guelph	Sep 2021 – Sep 2023

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(18) Northern Scientific Training Program (NSTP) Travel Grant	\$2,800	McGill University	July 2017
(17) W. Garfield Weston Award for Northern Research (Doctoral)	\$50,000	McGill University	Jul 2017 – Jul 2019
(16) Northern Scientific Training Program (NSTP) Travel Grant	\$3,000	McGill University	April 2016
(15) GREAT Travel Award	\$400	McGill University	August 2016
(14) Northern Scientific Training Program (NSTP) Travel Grant	\$3,000	McGill University	May 2016
(13) GREAT Travel Award	\$400	McGill University	October 2015
(12) Northern Scientific Training Program (NSTP) Travel Grant	\$3,000	McGill University	August 2015
(11) GREAT Travel Award	\$350	McGill University	May 2015
(10) McGill Graduate Excellence Award	\$2,000	McGill University	Sept 2014
(9) NSERC Vanier Post Graduate Scholarship	\$150,000	McGill University	Sept 2014 – Aug 2017
(8) NSERC Alexander Graham Bell Canada Graduate Scholarship (CGS-D)	\$105,000	N/A	Declined
(7) University of Winnipeg Graduate Studies Travel Grant	\$750	University of Winnipeg	Dec 2012
(6) Manitoba Graduate Scholarship	\$15,000	University of Winnipeg	Sept 2012 – Sept 2013
(5) NSERC Alexander Graham Bell Canada Graduate Scholarship (CGS-M)	\$17,500	University of Winnipeg	Sept 2011 – Sept 2012
(4) Undergraduate Research Travel Grant	\$750	University of Winnipeg	June 2010
(3) NSERC Undergraduate Student Research Award	\$6,000	University of Winnipeg	May - Sept 2010
(2) NSERC Undergraduate Student Research Award	\$6,000	University of Winnipeg	May - Sept 2009

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(1) Marsha P Hannen Scholarship	\$2,400	University of Winnipeg	Sept 2007
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### *Non-Monetary Awards:*

(4) 2020 Short List, Haldane Prize for Early Career Researchers		N/A	Apr 2021
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(3) Principal's Prize for Outreach Through Media: Special Recognition Prize for Direct Public Outreach		McGill University	Apr 2019
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(2) Graduate Student of Highest Distinction		University of Winnipeg	June 2014
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(1) Gold Medal for Achievement in an Honours Course (Biopsychology)		University of Winnipeg	June 2011
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## **TEACHING EXPERIENCE:**

Winter 2023    **Instructor, IPCA 427 – Indigenous Knowledge Systems and Principles of Land Relationship Planning**  
*Indigenous Protected and Conserved Area Planning Certificate, Vancouver Island University*  
Developed and taught course.

Summer 2022    **Co-Instructor, IES 2010 – Land Based Teachings for Indigenous Environmental Sciences and Practice**  
*School of Environmental Sciences, University of Guelph*  
Co-developed and co-taught with Dr. Jesse Popp

Winter 2022    **Co-Instructor, ENVS 6452 – Special Topics in Ecosystem Science and Biodiversity**  
*School of Environmental Sciences, University of Guelph*  
Co-developed and co-taught with Dr. Jesse Popp

Fall 2021        **Co-Instructor, IES 1010 – Indigenous Environmental Science and Practice**  
*School of Environmental Sciences, University of Guelph*  
Co-taught with Dr. Jesse Popp

Fall 2019        **Lab Instructor, WILD 350 (3) – Mammalogy**  
*Natural Resource Sciences Dept, McGill University*

Winter 2019,  
Winter 2015    **Guest Lecturer, WILD 421 (3) – Wildlife Conservation**  
*Natural Resource Sciences Dept, McGill University*

Fall 2018,  
2015, 2014    **Guest Lecturer, WILD 307 (3) – Natural History of Vertebrates**  
*Natural Resource Sciences Dept, McGill University*



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- Fall 2018      **Guest Lecturer – Graduate Seminars**  
*Geography Department, Memorial University of Newfoundland*
- Summer 2018,  
2014      **Field Instructor, BIOL 4206 (3) – Field Methods in Ecological Energetics**  
*Dept of Biology, University of Winnipeg*
- Winter 2014      **Lab Instructor, BIOL 1116 (3) – Evolution, Ecology and Biodiversity**  
*Dept. of Biology, University of Winnipeg*
- Fall 2013      **Lab Instructor, BIOL 1115 (3) – Cells and Cellular Processes**  
*Dept. of Biology, University of Winnipeg*
- 2008-2011      **Laboratory Demonstrator, BIOL 2111 (6) – Comparative Chordate Zoology**  
*Dept. of Biology, University of Winnipeg*

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### **ACADEMIC MENTEES:**

\*Note that all students between 2011 and 2014 were officially supervised/employed by Dr. C. Willis, all students between 2014 and 2020 were officially supervised/employed by Dr. Murray Humphries, and all students since 2020 were officially supervised/employed by Dr. Jesse Popp.

### **B.Sc. and M.Sc. Project Supervision:**

- 2022 – present: Karl-Antoine Hogue - unofficial co-supervisor of MSc thesis (co-supervisor: J. Brammer)  
2022: Alexandra Amos – \*official co-supervisor of MSc independent project  
2021 – present: Kathryn Yarchuk – unofficial co-supervisor of MSc thesis (co-supervisor: J. Northrup)  
2021 – present: Claire Kemp – unofficial co-supervisor of MSc thesis  
2019 – 2020: Kaitlyn Courschene –honours thesis supervisor  
2014 – 2016: Kristina Muise – honours thesis mentor (see manuscript # 10)  
2014: Dylan Baloun – honours thesis mentor

### **Research Assistants/Technicians:**

- 2021: Junaid Shazhad Khan (research associate)  
2021: Heather Patterson (research associate)  
2021: Sarah Hasenack (research associate)  
2019: Kaitlyn Courschene (lab assistant)  
2019: Gabrielle Ednie (lab assistant)  
2016 – 2018: Jacob Seguin (field technician)  
2016 – 2018: Zach Fogel (field technician)  
2018: Juliana Balluffi-Fry (field technician)  
2016: Claire Hoffmann (field technician)  
2016: Shannon Whelan (field technician)  
2016: Samantha Stead (field technician)  
2015 – 2017: Sean Konkolics (field technician)  
2015: Laurence Carter (field technician)  
2015: Lisa Bidinosti (field technician)  
2011 – 2014: Dylan Baloun (field technician)

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**PROFESSIONAL EXPERIENCE:**

- 2020-2022      **Consultant, Nature United**  
Supervisor: Amanda Karst
- Provided written recommendations and ongoing guidance for initiating Indigenous-led moose monitoring in central and northern Manitoba
- 2018            **Wildlife Biologist Intern, Manitoba Sustainable Development and Leatherdale International Polar Bear Conservation Centre**  
Supervisors: Bill Watkins, Species at Risk Biologist; Vanessa Harriman, Population Ecologist; Stephen Petersen, Head of Conservation and Research at LIPBCC
- Co-wrote a report to decision-makers, on behalf of the LIPBCC, providing recommendations of management options for orphaned polar bear cubs in Churchill, Manitoba. Also created online hunter questionnaires to collect data on hunting success and hunter effort for large game species.
- 2016            **Wildlife Biologist Intern, Alberta Conservation Association**  
Supervisor: Robert Anderson, Senior Biologist, ACA
- Working with government biologists and local trappers to better understand ecology and energy requirements of boreal wolverines in the winter
- 2014            **Consultant, Joro Consultants, Winnipeg, Canada**  
Supervisor: Dr. Erin McCance

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**ACADEMIC PRESENTATIONS AND WORKSHOPS:**

I have contributed to **over 25 presentations at both national and international research conferences**. For brevity, I highlight only invited seminars, panel presentations, and/or workshop facilitation opportunities, below.

**Invited Seminars:**

- Apr 2022      **University of British Columbia - Okanagan, Diversity in Biology Seminar Series**  
*\*Virtual*
- “Values-led Environmental Caretaking”
- Jan 2020      **University of Winnipeg, Biology Departmental Seminar**  
*Winnipeg, Manitoba*
- “Warm bodies in cold places: thermoregulation and activity of winter active homeotherms in the boreal forest”
- Nov 2019      **McGill University, Natural Resource Sciences Department Seminars**  
Montreal, Quebec
- “PhD Final Seminar: thermoregulation, activity and energetics of winter active

homeotherms in the boreal forest”

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**Invited Panel Discussions and Workshop Facilitation:**

- 2022      ***First Nations Species At Risk Dialogues***, Facilitator, Organized by The Assembly of First Nations and IISAAK-OLAM Foundation, March 2022 \*Virtual
- Audience: First Nations environmental professionals and community representatives from across Canada
- 2021      ***Indigenous-led Monitoring Case Studies***, Invited Panel Speaker, *Moose Habitat in Forested Landscapes: Current Knowledge and Future Steps Workshop*, Alberta September 2021 \*Virtual
- Audience: researchers from academia, government, industry, and Indigenous communities interested in moose research and conservation
- 2021      ***Two Eyed Seeing in Practice***, Invited Panel Member, *Conservation Through Reconciliation Partnership student workshop*, August 2021 \*Virtual
- Audience: students, post docs, and faculty in the Conservation through Reconciliation Partnership Workshop
- 2021      ***Community Engagement 101***, Invited Facilitator and Speaker, *PermafrostNet Science Communication Toolbox for Researchers*, March 2021. \*Virtual  
<https://www.permafrostnet.ca/training/the-science-communication-toolbox-for-researchers/>
- Audience: students, post docs, and researchers on the PermafrostNet team
- 2020      ***Collaborative Wildlife Research and Management with Indigenous Communities***, Invited Panel Member, *Quebec Centre for Biodiversity Science Annual Meeting*, Dec 16, 2020 \*Virtual
- Audience: students, post docs, faculty involved in the Quebec Centre for Biodiversity Science Network
- 2020      ***Building Collaborative Projects in the North as Early Career Researchers: Research Guidelines, Ethical Protocols, and Community Engagement***, Invited Facilitator and Speaker, *Institut Nordique de Quebec Webinar Series*, April 15, 2020. \*Virtual  
<https://inq.ulaval.ca/index.php/en/node/1185>
- Audience: students and professionals conducting research in northern Canada
- 2019      ***Building Collaborative Projects in the North: a Challenging and Satisfying Journey***, Invited Workshop Organizer and Facilitator, *Institut Nordique de Quebec, Introduction to Research and Northern Issues*, Universite de Laval, Quebec City, Quebec

## ***Curriculum Vitae – Dr. A.K. Menzies***

Audience: students and professionals conducting research in northern Canada

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### **SERVICE AND BROADER COMMUNITY INVOLVEMENT:**

#### **Service on Committees and Associations:**

- 2017 - 2020     **Macdonald Campus Environmental Biology Seminars Organizing Committee,**  
*McGill University*  
*Volunteer position*
- 2017 - 2020     **Founder and Executive Committee Member, Macdonald Campus Women in Science (Mac-WIS),** *McGill University*  
*Volunteer position*
- 2016 - 2018     **Graduate Student Representative, Natural Resource Sciences Departmental Committee,** *McGill University*  
*Invited, volunteer position*
- 2016 - 2018     **Departmental Representative, Macdonald Campus Graduate Student Society,**  
*McGill University*  
*Volunteer position*
- 2016             **Student Representative, Advisory Committee to the Dean for Appointment of Department Chair,** *McGill University*  
*Invited, volunteer position*
- 2014,  
2011/2012       **Student Representative, Strategic Review Steering Committee,** *University of Winnipeg*  
*Invited position*
- 2013/2014       **Graduate Student Representative, The Manitoba Chapter of the Wildlife Society**  
*Elected, volunteer position*
- 2012/2013       **Student Representative, Search Committee for Vice President of Research and Innovation,** *University of Winnipeg*  
*Invited, volunteer position*
- 2012/2013       **Graduate Student Co-director, University of Winnipeg Student Association,**  
*University of Winnipeg*  
*Elected, volunteer position.*
- 2012/2013       **Voting Member, Senate and Graduate Studies Sub-Committee,** *University of Winnipeg*  
*Volunteer position*

#### **Workshop and Symposium Organization:**

- 2019             **Media Training and Science Communication for Natural Scientists, Workshop Organizer**  
*CREATE-Environmental Innovation Program, Department of Natural Resource Sciences, McGill*

## Curriculum Vitae – Dr. A.K. Menzies

### *University*

Audience: graduate students in the natural sciences, at McGill and University of Alberta

- 2019 ***Building Collaborative Projects in the North: a Challenging and Satisfying Journey, Workshop Organizer and Facilitator***  
*Institut Nordique de Quebec, Introduction to Research and Northern Issues, Universite de Laval, Quebec City, Quebec*

Audience: students and professionals conducting research in northern Canada

- 2019 ***Symposium for Women Entering Ecology and Evolution Today (SWEET), Organizing Committee***  
*2019 Canadian Society of Ecology and Evolution (CSEE) conference, Fredericton, New Brunswick*

Audience: attendees of the Canadian Society of Ecology and Evolution annual conference (students, professionals, and academics)

- 2017 ***Intercultural Indigenous Workshop, Organizing Committee***  
*McGill University*

Audience: students and professionals conducting research in northern Canada

- 2015 ***Wildlife Biologging: Advancements in the Study of Animal Ecology and Energetics, Symposium Organizer***  
*2015 Canadian Society of Ecology and Evolution (CSEE) conference, Saskatoon, Saskatchewan*

Audience: attendees of the Canadian Society of Ecology and Evolution annual conference (students, professionals, and academics)

### **Public Outreach Presentations and Demonstrations:**

I have presented outreach talks in both English and French for over 25 school groups, 11 community organizations (e.g., senior homes, girl guide meetings) and various University functions. I have also organized, facilitated and participated in numerous hands-on workshops (for classrooms, community groups, etc.) at various field stations or in the communities in which I have conducted research. For my efforts, I received the **Principal's Prize for Outreach Through Media: Special Recognition Prize for Direct Public Outreach** at McGill University in 2019. Some representative presentations and hands-on research-based workshops are listed, below:

#### Invited Public Presentations:

- (10) "Bats and Cats: Elusive Species of the Boreal Forest" Toronto Public Library Environmentalist in Residence. October 2021. Audience: 25 members of the general public. \*Virtual. <https://www.crowdcast.io/e/tpl-envir-bats-lynx-hares-oh-my>
- (9) "Using New Tools to Answer Old Questions" Manitoba Sustainable Development Lunch and Learn Presentation, Winnipeg, Manitoba. July 2018. Audience: 25 government biologists and employees from various branches (via webinar, as well).
- (8) "Using New Tools to Answer Old Questions" Alberta Conservation Association, Edmonton, Alberta. April 2018. Audience: 15 biologists, land-use planners, trappers, (via webinar, as well)

## ***Curriculum Vitae – Dr. A.K. Menzies***

- (7) “Live-trapping for science” Kwanlin Dün Cultural Centre, Whitehorse, Yukon. As part of UnFURled, a Yukon fur auction and trapping rendezvous. (Audience: over 1000 community members visiting fur auction and trapping workshops)
- (6) “Research in the Kluane Region” St Elias Centre, Haines Junction, Yukon. February 20, 2015. (Audience: 20 community members, regional biologists, wildlife enthusiasts).
- (5) “Adventures in a frozen land: learning about hibernation behaviour and conservation of bats”, Graduate Studies Open House, University of Winnipeg, Department of Graduate Studies, Winnipeg, Manitoba, Canada, October 2013. (Audience: 30 prospective and current graduate students)
- (4) “Flying Mammals, Fur, and Fungus: Fighting to Save Canada’s Threatened Bats”, The Wildlife Society (Manitoba Chapter) Winter Retreat, Camp Wannakumbac, Riding Mountain National Park, Manitoba, Canada, February 2013. Invited Keynote Presentation. (Audience: 75 undergraduate and graduate students, wildlife professionals, professors, etc)
- (3) “Bat Research in Manitoba”, Riding Mountain National Park Summer Research Seminar Series, RMNP Interpretive Centre, Wasagaming, Manitoba, Canada, August 2013. (Audience: 50 people; general public, cabin owners, wildlife enthusiasts)
- (2) “How to Survive Grad School at The University of Winnipeg”. Graduate Studies Orientation Day, University of Winnipeg, Winnipeg, Manitoba, Canada, September 2012. (Audience: 60 graduate students and faculty)
- (1) “Advice for Prospective Graduate Students”, iGraduate Series, Students of Science Association, University of Winnipeg, Winnipeg, Manitoba, Canada, February 2012. (Audience: 20 senior undergraduate students and faculty)

### ***Hands-on Demonstrations:***

- (6) Squirrel Research Demonstration – Hands-on presentation and activities about red squirrel research and field techniques for grade 1 students. St Elias School, Haines Junction, Yukon. March 2018. (Audience : 12 students)
- (5) Northern Field Methods Demonstration – Presentation of field methods, wild animal handling, and animal tracking technology at our field camp for senior undergraduate students in a University of Alberta Field Course. February 2018, February 2017 (Audience: 30 students)
- (4) Small Mammal Trapping and Research Techniques Demonstration. Hands-on workshop and presentation at our research camp for high school students from Haines Junction, Yukon. April 2016, April 2015. (Audience : 5 students)
- (3) Community Bat Research Workshop. Public demonstration of bat research techniques for Misipawistik Cree Nation. Grand Rapids, Manitoba, Canada, August 2012. (Audience: 50 community members and Elders)
- (2) Bat Research Campfire Talk. Public demonstration of field work techniques for guests of cabins. Richard Lake Mine, Ontario, Canada, August 2011. (Audience: 20 community members)
- (1) Bat Research Workshop, Public demonstration of field work techniques for students of an International Science Camp. Pinawa, Manitoba, Canada, July 2010. (Audience: 30 high school students from around the world)

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### **MEDIA/PRESS COVERAGE:**

## ***Curriculum Vitae – Dr. A.K. Menzies***

- (19) University of Guelph News. April 2022. “Indigenous Voices Needed in Climate Change Discussions”. Written by Andrew Vowles. Available at: <https://news.uoguelph.ca/2022/04/indigenous-voices-needed-in-climate-change-discussions-u-of-g-study/>
- (18) Windspeaker Media. April 2022. “Science can benefit from Indigenous land user knowledge in battle against climate change”. Written by Rebecca Medel. Available at: <https://windspeaker.com/news/windspeaker-news/science-can-benefit-indigenous-land-user-knowledge-battle-against-climate>
- (17) The Wildlife Society. July 2021. “*A peek into the lives of Canada lynx*”. Written by Dana Kobilinsky. Available at: <https://wildlife.org/a-peek-into-the-lives-of-canada-lynx/>
- (16) The Conversation. June 2021. “*We eavesdropped on some Canadian lynx: What we heard was surprising*”. Available at: <https://theconversation.com/we-eavesdropped-on-some-canadian-lynx-what-we-heard-was-surprising-161539>
- (15) CBC Montreal. June 2021. “*The Secret Lives of Canada Lynx*”. Available at: <https://www.cbc.ca/player/play/1904533571557>
- (14) CBC Listen Lets Go. June 2021. “*The Secret Lives of Canada Lynx*”. Available at: <https://betalisten.cbc.ca/listen/live-radio/1-383-lets-go/clip/15847212-the-secret-lives-canada-lynx>
- (13) CBC Quirks and Quarks, May 2021. “*Purring, fighting, chaos and crunching bones: these are the sounds of the Canada lynx*”. Available at: <https://www.cbc.ca/radio/quirks/may-8-sounds-of-a-predator-horses-are-well-diggers-grass-defuses-a-toxic-explosive-and-more-1.6016777/purring-fighting-chaos-and-crunching-bones-these-are-the-sounds-of-the-canada-lynx-1.6016797>
- (12) Canadian Wildlife Magazine, May-June 2020 issue. “*Looking for lynx*”. Written by: Kerry Banks.
- (11) The Nature of Things with David Suzuki. “*Remarkable Rabbits*” April 2019. Episode featured study animals.
- (10) Les Explorateurs Magazine. Nov 2018 issue. “*Allyson et Emily au Pays des Lynx*”.
- (9) Dr Oakley Yukon Vet, Nat Geo Wild. Oct 2018. “*The Riddle of the Lynx*” (Season 6, Episode 1). <http://natgeotv.com/ca/dr-oakley-yukon-vet/about>
- (8) The Wild Canadian Year, presented by The Nature of Things with David Suzuki. July 2018. “*Winter*” Episode. <http://www.cbc.ca/wildcanadianyear/episodes/series-preview/winter>. Episode featured study animals
- (7) McCrae, Aiden. May 2018. “*A day at Kluane Red Squirrel Camp*” Radio documentary. <https://soundcloud.com/aiden-mcrae/a-day-at-squirrel-camp>
- (6) Dr Oakley Yukon Vet, Nat Geo Wild. Oct 2017. “*Wild wild wolverine*” episode. <http://natgeotv.com/ca/dr-oakley-yukon-vet/about>
- (5) Uphere Magazine. Apr 2017. “*Fur and Fitbit*”. <http://uphere.ca/node/2247>
- (4) Alaska Fish and Wildlife News. Jan 2017. “*Wandering Lynx: Lynx Research in Alaska and Canada*”. [http://allysonmenzies.weebly.com/uploads/8/1/7/0/81702066/wandering\\_lynx\\_alaska\\_department\\_of\\_fish\\_and\\_game.pdf](http://allysonmenzies.weebly.com/uploads/8/1/7/0/81702066/wandering_lynx_alaska_department_of_fish_and_game.pdf)
- (3) CBC Yukon: A New Day. Nov 2016. “*Update on Kluane Lynx Study in the Yukon*”. <https://soundcloud.com/cbcyukon/update-on-kluane-lynx-study-in-the-yukon>

## **Curriculum Vitae – Dr. A.K. Menzies**

(2) CBC News. Nov 2016. “*Missing Lynx No More: Researchers Learn of Yukon Animals’ Epic Journey*”.  
<http://www.cbc.ca/news/canada/north/kluane-lynx-project-yukon-alaska-1.3858581>

(1) Copper River Record. Nov 2016. “*Captured Lynx Reveals Remarkable Journey*”.  
[http://allysonmenzies.weebly.com/uploads/8/1/7/0/81702066/copper\\_river\\_record.pdf](http://allysonmenzies.weebly.com/uploads/8/1/7/0/81702066/copper_river_record.pdf)

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### **JOURNAL REVIEWER:**

Total: 21

- Proceedings of the Royal Society B
- Behavior (x5)
- Ecology and Evolution (x3)
- Ecological Solutions and Evidence (x2)
- Canadian Journal of Zoology
- Journal of Animal Ecology (x2)
- Physiology and Behavior (x2)
- PLOS ONE (x2)
- Mammal Research
- Integrative and Comparative Biology (x2)

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### **CERTIFICATION:**

Sept 2016, Oct 2015	Chemical Immobilization Course – Canadian Association of Zoo and Wildlife Veterinarians
May 2014	Aboriginal Coaching Module Training Workshop – Manitoba Aboriginal Sport and Recreation Council
Sep 2020	Workplace Hazardous Materials Information System (WHMIS) Training

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### **PROFESSIONAL MEMBERSHIPS:**

Conservation through Reconciliation Partnership (CRP)  
Canadian Society of Ecology and Evolution (CSEE)  
The Wildlife Society (TWS)  
North American Society for Bat Research (NASBR)

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### **REFERENCES:**

**Dr. Jesse Popp** - Postdoctoral Supervisor  
Assistant Professor and Canada Research Chair in Indigenous Environmental Science  
School of Environmental Sciences, University of Guelph  
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Email: [poppj@uoguelph.ca](mailto:poppj@uoguelph.ca)

**Dr. Murray Humphries** - Ph.D. Supervisor  
Full Professor and Director of the Centre for Indigenous Peoples’ Nutrition and Environment (CINE)  
Natural Resources Sciences Department, McGill University, St-Anne-de-Bellevue, Quebec  
Lab Website: <http://murray-humphries.lab.mcgill.ca/>  
Email: [murray.humphries@mcgill.ca](mailto:murray.humphries@mcgill.ca)

**Dr. Craig Willis** - M.Sc. and B.S.c. Hons. Supervisor  
Full Professor and Graduate Program Coordinator  
Biology Department, University of Winnipeg, Winnipeg, Manitoba



***Curriculum Vitae* – Dr. A.K. Menzies**

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