

DR. BEN DANTZER

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CV HIGHLIGHTS

- Authored 41 publications with 6 additional manuscripts submitted and/or under review
- *Google Scholar* Metrics: 1381 total citations, 34 citations/per article, *h*-index = 18
- Research highlighted in *Nature*, *Science Signaling*, blogs and newspapers (print and online)
- Awarded NSF CAREER Grant (\$792360, 2018-2023)
- Awarded Postdoctoral Fellowships from both the NSF and NIH (>\$253000, both declined)
- Awarded Junior Research Fellowship, Downing College, Cambridge (>\$125000, declined)
- Independently obtained >\$81000 US in research grants to support Ph.D. research (2007-2012)
- Awarded NSF Doctoral Dissertation Improvement Grant (\$14991)
- Twice awarded **best oral presentation** for presentations at professional meetings
- Distinguished Student Speaker at Michigan State University (only 2 students/120/year)
- Invited to submit review papers to *Science*, *Molecular Ecology*, *Functional Ecology*
- Mentored 46 undergraduate students in field and laboratory research
- Taught or co-taught 11 undergraduate courses (>600 students)
- On Editorial Boards at *Hormones & Behavior*, *Journal of Animal Ecology*, *Conservation Physiology*, and *Ecology & Evolution*

EDUCATION

- Ph.D. Michigan State University**, East Lansing, MI 2007-2012
Dual degrees in Zoology and Ecology, Evolutionary Biology, & Behavior, GPA = 4.0/4.0
Dissertation: *Hormone-mediated Maternal Effects in North American Red Squirrels*
Advisors: Dr. Andrew G. McAdam & Dr. Kay E. Holekamp
- MSc. University of Louisiana**, Lafayette, LA 2004-2006
MSc. In Biology, Department of Biology, GPA = 4.0/4.0,
Thesis: *Information Transfer via Volatile Chemical Signals in Red-backed Salamanders*
Advisors: Dr. Robert G. Jaeger & Dr. Brad R. Moon
- BSc. Northern Michigan University**, Marquette, MI 2000-2004
BSc. In Biology with Ecology Emphasis, Department of Biology, GPA = 3.76/4.0
Thesis: *Behavioral Ecology of Red-backed Salamanders in Northern Michigan*
Advisor: Dr. Brent M. Graves
- Semester Abroad**, Universidad San Francisco de Quito, Quito, Ecuador 2004

POSITIONS HELD

- Assistant Professor, Department of Psychology, Department of Ecology and Evolutionary Biology, University of Michigan, July 2014 - present
- Postdoctoral Fellow, Department of Zoology, University of Cambridge, July 2012 – July 2014
- Bye-fellow, Christ's College, Cambridge, October 2013-October 2014
- Director of Studies in Natural Sciences, Churchill College, Cambridge, Oct. 2012 – June 2014
- Lecturer, Department of Zoology, Michigan State University, May-July 2012
- Graduate Teaching Assistant, Department of Zoology, Michigan State University, 2007-2012

FELLOWSHIPS, GRANTS, AWARDS

Extramural Grants & Awards

- **National Science Foundation CAREER Grant** (IOS-1749-627), 2018-2023 (\$792360)
- **Association for Psychological Science Rising Star**, Dec 2017
- **Brenda A. Milner Award** (outstanding paper in behavioral neuroscience or comparative psychology), American Psychological Association Division 6, 2017
- **National Science Foundation**, meeting grant for SICB symposium, 2016 (\$15000)
- **Pepper Aging Center, Univ. Michigan**, Pilot grant on aging research, 2016 (\$40000)
- **European Squirrel Initiative**, Grant-in-aid of research on Eurasian red squirrels, 2015, (\$2000)
- **MCubed, Univ. Michigan**, Research funds, 2015, (\$15000)
- **Henslow Junior Research Fellowship, Downing College, University of Cambridge**, Three-year independent postdoctoral fellowship, 2014-2017, >\$125000 + living expenses (declined)
- **NSF Postdoctoral Fellowship in Biology**, Intersections of Biology and Mathematics, "*Unifying modeling and empirical approaches to understand how anthropogenic environmental change will affect the maintenance of phenotypic plasticity*", 2012-2014, \$123000 (declined)
- **NIH Ruth Kirschstein National Research Service Award Individual Postdoctoral Fellowship**, "*Understanding the mechanisms by which early exposure to glucocorticoids increases susceptibility to anxiety disorders: the role of corticotropin-releasing factor*", 2012-2015, \$130370 (declined)
- **NSF Doctoral Dissertation Improvement Grant**, "*Can hormone-mediated maternal effects facilitate adaptation to changing environments?*", 2011-2013, \$14911
- **Best oral presentation**, Society for Comparative and Integrative Biology, 2012
- **Best oral presentation**, North American Society for Comparative Endocrinology, 2011
- Arctic Institute of North America, Grant-in-Aid of Research, 2008, 2009, 2010, \$3000
- Canadian Association for Humane Trapping Research Fellowship, 2009, \$23850
- American Society of Mammalogists, Grant-in-Aid of Research, 2008, 2009, \$2500
- Sigma Xi, Grant-in-Aid of Research, 2008, \$400
- Animal Behavior Society, Student Research Grant, 2008, \$750
- Society for Integrative and Comparative Biology, Grant-in-Aid of Research, 2008, \$1000

Intramural Fellowships & Awards

- Dissertation Continuation Fellowship, College of Natural Science, MSU, 2010, 2011, \$12000
- Dr. Marvin Hensley Endowed Fellowship in Zoology, MSU, 2010, \$9725
- John R. Shaver Research Fellowship, MSU, 2008, 2009, \$2500
- Support Fellowship, College of Natural Science, MSU, 2008, \$5580
- EEBB Summer Support Fellowship, MSU, 2008, \$1800
- **Best Oral Presentation (2nd)**, Graduate Student Symposium, Univ. of Louisiana, 2005
- University Master's Fellowship, University of Louisiana, 2004-2005
- Charles C. Spooner Research Grant, Northern Michigan University, Spring 2003 (\$500)
- **Best Poster Presentation (2nd)**, Northern Michigan University, Autumn 2002.

Travel Awards

- SICB Charlotte Magnum Student Support Award, 2011
- Travel Award, North American Society for Comparative Endocrinology, 2011, \$450
- Travel Grant, MSU College of Natural Science, 2011, \$200
- Travel Grant, MSU Council of Graduate Students, 2011, \$300
- Travel Grant, MSU Graduate School, 2011, \$400
- Travel Support Fellowship, MSU EEBB, 2009-2011, \$1200
- Research Enhancement Award, MSU Graduate School, 2009, \$350
- MSU Department of Zoology Research Funds, 2007-2010, \$550
- Travel Grant, Graduate Student Organization, University of Louisiana, 2005, \$800
- Supply Grant, Graduate Student Organization, University of Louisiana, 2004-2006, \$420

PUBLICATIONS

Peer Reviewed Publications

Submitted or in revision

Dantzer B, Dubuc C, Braga Goncalves I, Cram DL, Bennett NC, Ganswindt A, Duncan C, Gaynor D, Clutton-Brock TH. Maternal stress increases cooperative behaviour of offspring in wild meerkats. *In review*

van Kesteren F, Delehanty B, Westrick SE, Palme R, Boonstra R, Lane JE, Humphries MM, Boutin S, McAdam AG, **Dantzer B**. Experimental increases in stress hormones alter function of the neuroendocrine stress axis in wild red squirrels without negatively impacting survival and reproduction. *In review*

Fisher DN, Wilson AJ, Boutin S, **Dantzer B**, Lane JE, Coltman DW, Gorrell JC, McAdam AG. Indirect effects of territorial neighbors on the timing of spring breeding may counteract changes in selection in North American red squirrels. *In review*

Siracusa E, Wilson DR, Studd EK, Boutin S, Humphries MM, **Dantzer B**, Lane JE, McAdam AG. Red squirrels mitigate costs of territory defence through social plasticity. *In review*

Haines JA, McAdam AG, Coltman DW, Gorrell JC, Hämaläinen A, Lane JE, **Dantzer B**, Humphries MM, Boutin S. Age at first reproduction influences the onset but not rate of reproductive senescence in male red squirrels. *In revision*

Hämäläinen A, McAdam AG, Lane JE, **Dantzer B**, Humphries MM, Boutin S. Substantial individual variation in the onset and rate of reproductive senescence in a wild mammal. *In revision*

Published or in press

- 41) Raulo A, **Dantzer B**. 2018. Associations between glucocorticoid stress hormones across a continuum of vertebrate social behaviour. *Ecology & Evolution* *In press*
- 40) Cram DL, Monaghan P, Gillespie R, **Dantzer B**, Duncan C, Spence-Jones H, Clutton-Brock TH. 2018. Differences in dispersal, not senescence, explain contrasts in longevity between dominant and subordinate meerkats. *Current Biology* *In press*
- 39) Santicchia F, **Dantzer B**, van Kesteren F, Palme R, Martinoli A, Ferrari N, Wauters L. 2018. Stress in biological invasions: alien grey squirrels increase physiological stress in native Eurasian red squirrels. *Journal of Animal Ecology* *In press*
- 38) Sheriff MJ, **Dantzer B**, Love OP, Orrock J. 2018. Error management theory and the evolution of Maternal stress effects. *Ecology & Evolution* *In press*
- 37) Haines JA, Coltman DW, **Dantzer B**, Gorrell JC, Humphries MM, Lane JE, McAdam AG, Boutin S. 2018. Sexually-selected infanticide by male red squirrels in advance of a mast year. *Ecology: The Scientific Naturalist* *In press*
- 36) Ren T, Boutin S, Humphries MM, **Dantzer B**, Gorrell JC, Coltman D, McAdam AG, Wu M. 2017. Seasonal, spatial and maternal effects on gut microbiome in wild red squirrels. *Microbiome* **5**, 163.
- 35) Siracusa E, Morandini M, Boutin S, Humphries MM, **Dantzer B**, Lane JE, McAdam AG. 2017. Red squirrel territorial vocalizations deter intrusions by conspecific rivals. *Behaviour* **154**, 1259-1273

- 34) Siracusa E, Boutin S, Humphries MM, Gorrell JC, Coltman DW, **Dantzer B**, Lane JE, McAdam AG. 2017. Familiarity with neighbours affects intrusion risk in a territorial squirrel (*Tamiasciurus hudsonicus*). Animal Behaviour 133, 11-20.
- 33) Cooper EB, Taylor RW, Kelley AD, Martinig AR, Boutin S, Humphries MM, **Dantzer B**, Lane JE, McAdam AG. Personality is correlated with natal dispersal in North American red squirrels (*Tamiasciurus hudsonicus*). Behaviour 154, 939-961.
- 32) **Dantzer B**, Bennett NC, Braga Goncalves I, Spence-Jones HC, Heistermann M, Ganswindt A, Gaynor D, Manser MB, Clutton-Brock T. The influence of stress hormones and aggression on cooperative behavior in wild meerkats. Proceedings of the Royal Society Series B 284, 20171248.
- 31) Sheriff MJ, Bell A, Boonstra R, **Dantzer B**, Lavergne SG, McGhee KE, MacLeod KJ, Winandy L, Zimmer C, Love OP. 2017. Integrating ecological and evolutionary context in the study of maternal stress. Integrative and Comparative Biology 57, 437-449.
- 30) Hämaläinen A, McAdam AG, **Dantzer B**, Lane JE, Haines JA, Humphries MM, Boutin S. 2017. Fitness consequences of peak reproductive effort in a resource pulse system. Scientific Reports 7, 9335.
- 29) **Dantzer B**, Bennett NC, Clutton-Brock, T. 2017. Social conflict and costs of cooperation in meerkats are reflected in measures of stress hormones. Behavioral Ecology 28, 1131-1141.
- 28) **Dantzer B**, Swanson EM. 2017. Does hormonal pleiotropy constrain the independent evolution of performance and life history traits? Integrative and Comparative Biology 57, 372-384.
- 27) **Dantzer B**, Rubenstein DR. 2017. Introduction to Symposium: The Developmental and Proximate Mechanisms Causing Individual Variation in Cooperative Behavior. Integrative and Comparative Biology 57, 560-565.
- 26) Fisher DN, Boutin S, **Dantzer B**, Humphries MM, Lane JE, McAdam AG. 2017. Multilevel and sex-specific selection on competitive traits in North American red squirrels. Evolution 71, 1841-1854.
- 25) **Dantzer B**, Garratt M. 2017. Sex differences in telomeres and lifespan in Soay sheep: From the beginning to the end. Molecular Ecology 26, 3090-3092 (invited commentary)
- 24) Dubuc C, English S, Thavarajah N, **Dantzer B**, Sharp S, Spence-Jones H, Gaynor D, Clutton-Brock T. 2017. Food availability increases eviction in a cooperative breeding mammal Biology Letters 13, 20160961
- 23) **Dantzer B**, Westrick SE, van Kesteren F. 2016. Relationships between endocrine traits and life histories in wild animals: insights, problems, and potential pitfalls. Integrative and Comparative Biology 56, 185-197.
- 22) **Dantzer B**, Santicchia F, van Kesteren F, Palme R, Martinoli A, Wauters LA. 2016. Measurement of fecal glucocorticoid metabolite levels in Eurasian red squirrels (*Sciurus vulgaris*): effects of temporary capture, sex, reproductive condition, and season. Journal of Mammalogy 97, 1385-1398.
- 21) Goncalves, IB, Heistermann, M, Santema, P, **Dantzer B**, Mausbach, J, Ganswindt, A,

- Manser, MB. 2016. Validation of a fecal glucocorticoid assay to assess adrenocortical activity in meerkats using physiological and biological stimuli. PLoS One e0153161.
- 20) Benson-Amram S, **Dantzer B**, Stricker G, Holekamp KE. 2016. The evolution of problem solving abilities in carnivores. Proceedings of the National Academy of Sciences 113, 2532-2537.
- 19) **Dantzer B**, Fletcher QE. 2015. Telomeres do not shorten more slowly in slow-aging wild animals than in fast-aging ones. Experimental Gerontology 71, 38-47.
- 18) Speakman JR, Selman C, ..., **Dantzer B**, ... Peaker M. 2015. Oxidative stress and life histories: a consensus view on several unresolved issues. Ecology & Evolution 5, 5745-5757.
- 17) Fletcher Q*, **Dantzer B***, Boonstra, R. 2015. The impact of reproduction on the hippocampal-hypothalamic-pituitary-adrenal stress axis of free-living male northern red backed voles (*Myodes rutilus*). General and Comparative Endocrinology 224, 136-147.
*Shared first authorship
- 16) Holekamp KE, **Dantzer B**, Stricker G, Yoshida KCS, Benson-Amram S. 2015. Brains, brawn and sociality: a hyaena's tail. Animal Behaviour 103, 237-248.
- 15) **Dantzer B**. 2015. Mothers shape ecological communities. Science 347, 822-823.
- 14) Swanson EM*, **Dantzer B***. 2014. Insulin-like growth factor-1 is associated with life history variation across Mammalia. Proceedings of the Royal Society B 281, 20132458
*Shared first authorship
- 13) **Dantzer B**, Fletcher QE, Boonstra R, Sheriff MJ. 2014. Stress physiology: a transparent or opaque window into the status, management, and conservation of a species? Conservation Physiology 2, 1-18.
- 12) Boonstra R*, **Dantzer B***, Delehanty B*, Fletcher Q*, Sheriff M*. 2014. Equipped for life in the boreal forest: the role of the stress axis in mammals. Arctic 67:82-97.
*Shared First Authorship
- 11) **Dantzer B**, Newman AEM, Boonstra R, Boutin S, Humphries MM, Palme R, McAdam AG. 2013. Density triggers maternal hormones that increase adaptive offspring growth in a wild mammal. Science 340:1215-1217.
- 10) Creel SR*, **Dantzer B***, Goymann W*, Rubenstein D*. 2013. The ecology of stress: effects of the social environment. Functional Ecology 27:66-80.
(Invited Submission) *Shared first authorship
- 9) **Dantzer B**, Boutin S, Humphries MM, McAdam AG. 2012. Behavioral responses of territorial red squirrels to natural and experimental variation in population density. Behavioral Ecology and Sociobiology 66:865-878.
- 8) Taylor RW, Boon AK, **Dantzer B**, Réale D, Humphries MM, Boutin S, Gorrell JC, Coltman DW, McAdam AG. 2012. Low heritabilities of personality traits, but strong maternal effects on red squirrel behavioural syndromes. Journal of Evolutionary Biology 25:614-624.
- 7) **Dantzer B***, Swanson EM.* 2012. Mediation of vertebrate life histories via insulin-like growth factor-1. Biological Reviews 87:414-429.
*Shared first authorship

- 6) **Dantzer B**, McAdam AG, Palme R, Boutin S, Humphries MM, Boonstra R. 2011. How does diet affect fecal steroid hormone metabolite concentrations? An experimental test in red squirrels. General and Comparative Endocrinology 174:124-131.
- 5) Sheriff MJ, **Dantzer B**, Delehanty B, Palme R, Boonstra R. 2011. Measuring stress in wildlife: techniques for quantifying glucocorticoids in wildlife. Oecologia 166:869-887.
- 4) **Dantzer B**, McAdam AG, Palme R, Boutin S, Humphries MM, Boonstra R. 2011. Maternal androgens and behaviour in free-ranging North American red squirrels. Animal Behaviour 81:469-479.
- 3) **Dantzer B**, McAdam AG, Palme R, Fletcher QE, Boutin S, Humphries MM, Boonstra R. 2010. Fecal cortisol metabolite levels in free-ranging North American red squirrels: assay validation and the effects of reproductive condition. General and Comparative Endocrinology 167:279-286.
- 2) **Dantzer BJ**, Jaeger RG. 2007. Detection of the sexual identity of conspecifics through volatile chemical signals in a territorial salamander. Ethology 113:214-222.
- 1) **Dantzer BJ**, Jaeger RG. 2007. Male red-backed salamanders can determine the reproductive status of females through volatile chemical signals. Herpetologica 63:176-183.

Public Outreach Publications

Dantzer, B. 2010. Measuring stress in red squirrels. Canadian Association for Humane Trapping, Fall 2010 Newsletter.

Dantzer, B. 2009. Measuring stress in wildlife: How to do it and Why does it Matter? Canadian Association for Humane Trapping, Summer 2009 Newsletter.

TEACHING EXPERIENCE

Full Instructor, University of Michigan (2014-present):

- *Introduction to Animal Behavior* (Fall 2015, 2016, 2017, 2018)
- *Evolution, Development, and Neuroscience of Behavior* (Fall 2015, 2016, 2017)
- *Biology of Sex Differences* (Fall 2018)

Supervision leader & instructor, University of Cambridge (2012-2014):

- *Evolution & Behavior* (1st year)
- *Animal Biology* (2nd year)
- *Behavioral Ecology* (3rd year)

Full Instructor, Michigan State University, *Animal Behavior* (Summer 2012)

Graduate Teaching Assistant, Michigan State University, 2007-2012, 8 total semesters
 Behavioral Ecology (1x), Evolutionary Biology (2x), Evolutionary Biology Laboratory (2x), Integrative Sciences in Biology (2x), Mammalogy (1x)

Graduate Teaching Assistant, University of Louisiana, 2005-2006, 2 semesters
 Human Anatomy and Physiology (1x), Biodiversity (1x)

MENTORING EXPERIENCE

Postdoctoral Researchers, Freya van Kesteren (2015-2017), Tricia Rubi (NSF PDF, 2016-present), and Sarah Guindre-Parker (NSERC PDF, 2017-present).

Graduate Students, I am the full supervisor of three Ph.D. students in the Biopsychology Area in the Department of Psychology at the University of Michigan (Sarah Westrick, Anne Sabol, Mena Davidson) and two MSc. students (Zoë Goodrow in Conservation Ecology, Charlotte Devitz in EEB). At the University of Michigan, I have served on the mentoring committees for Ph.D. students in Psychology (Marcela Benitez, Natalie Nevarez), Ecology & Evolutionary Biology (Shawn Colborn, Katharine Crocker, Jenny Du, Lisa Walsh, Emily Laub), and Anthropology (Elizabeth Johnson).

Undergraduate research projects, I have been the full supervisor and guided 46 undergraduate students (MSU, Cambridge, UM) in devising hypotheses, experimental design, analyzing data, and writing up the results for an undergraduate research thesis. Four of these students were members of underrepresented groups.

INVITED PRESENTATIONS AND PUBLIC OUTREACH

Academic Presentations

- Department of Biology, North Dakota State University, September 2018
- Sociality and Health in Primates, Berlin, June 2018
- Dept. Evolution, Ecology and Organismal Biology, The Ohio State University, April 2018
- Neurobiology and Behavior Dept., Cornell University, February 2018
- Department of Biology, Colorado State University, April 2017
- Behavioral Ecology Group, SUNY Stonybrook, April 2017
- Department of Biology, Miami University (Ohio), June 2016
- Greater Questions in Neuroscience, University of Michigan, December 2015
- Unit of Laboratory Animal Medicine, University of Michigan, September 2015
- Department of Animal Ecology, Uppsala University, February 2015 (plenary speaker)
- Ecology, Evolutionary Biology, & Behavior Program, Michigan State University, March 2015
- Department of Ecology and Evolutionary Biology, University of Michigan, September 2014
- Rank Prize Symposium: Oxidative Stress, Life Histories, & Ageing, Cumbria, UK, April 2014
- Department of Biology, McMaster University, March 2014
- Department of Biological Sciences, University of Toronto Scarborough, March 2014
- Dept. Ecology & Evolutionary Biology, Princeton University, February 2014
- Division of Biological Sciences, University of Montana, February 2014
- Dept of Psychology, University of Michigan, January 2014
- Dept. of Biology, University of Massachusetts Amherst, January 2014
- Edward Grey Institute, University of Oxford, November 2013
- Dept. Evolution, Ecology, & Behaviour, University of Liverpool, November 2013
- Dept. Zoology, University of Cambridge, Summer Seminar Series, July 2013
- Michigan State University EEBB Seminar Series, March 2012
- North American Society for Comparative Endocrinology, **Best presentation**, July 2011

Public Outreach Presentations

- Haines Junction Hostel, Haines Junction, Yukon Territory, Canada, 2017
 - Public outreach talk to local community where I conduct research
- Gower College HE+ Masterclass in Biology for 12th grade high school students, 2014
 - Taught courses in biology to 11th and 12th grade students in Swansea, Wales
- Canadian Association for Humane Trapping Board Meeting, Toronto, Ontario, 2009
 - Public outreach talk to organization regarding ethics of using animals in research
- Haines Junction Community Centre, Haines Junction, Yukon Territory, Canada, 2008
 - Public outreach talk to local community where I conduct research

- Kluane Park Visitor Center, Haines Junction, Yukon Territory, Canada, 2007
 - Public outreach talk to local community where I conduct research

PRESENTED PAPERS

- International Congress of Neuroendocrinology, July 2018
- Canadian Society of Ecology & Evolution, July 2018
- Animal Behavior Society, June 2017
- Wildlife70 Conference, Trent University, May 2017 (poster)
- Society for Integrative and Comparative Biology, January 2015, 2016, 2017, 2018
- 11th International Mammalogical Congress, Belfast, Northern Ireland, August 2013
- Society for Integrative and Comparative Biology, **Best presentation**, January 2012
- Animal Behavior Society, July 2011
- American Society of Mammalogists, June 2011
- Michigan State University EEGB Graduate Student Colloquium, 2010
- Department of Biology Seminar Series, University of Louisiana, 2006
- Graduate Student Symposium, **2nd Best oral presentation**, University of Louisiana, 2005
- Animal Behavior Society (poster), Snowbird, Utah, 2005
- Joint Meeting of Ichthyologists and Herpetologists (poster), Tampa, Florida, 2005

PROFESSIONAL SERVICE

- **Editorial Board**, Ecology & Evolution, August 2016-present
- **Editorial Board**, Conservation Physiology, March 2016-present
- **Editorial Board**, Hormones & Behavior, May 2015-present
- **Associate Editor**, Journal of Animal Ecology, Jan 2015-present
- **Panel Reviewer**, National Science Foundation DBI-Postdoc. Fellowship in Biology, Feb 2017
- **Ad Hoc Reviewer**, National Science Foundation (NSF) IOS–Animal Behavior, NSF CAREER Program, USA-Israel Binational Science Foundation, Swiss National Science Foundation (two times), North Pacific Research Board, Kentucky Science & Engineering Foundation
- **Peer Reviewer**, American Naturalist, Animal Behaviour, Animal Biology, Animal Conservation, Amphibia-Reptilia, Behaviour, Behavioral Ecology, Behavioral Ecology and Sociobiology, Biological Conservation, Biology Letters, Cellular and Molecular Life Sciences, Conservation Physiology, Current Biology, Ecology, Ethology, Evolution, Functional Ecology, General and Comparative Endocrinology, Herpetologica, Hormones and Behavior, Integrative and Comparative Biology, Integrative Zoology, Journal of Animal Ecology, Journal of Comparative Biochemistry and Physiology A, Journal of Evolutionary Biology, Journal of Herpetology, Journal of Mammalogy, Journal of Zoology, The Herpetological Journal, Methods in Ecology and Evolution, Molecular Ecology, Oecologia, Oikos, Oxford University Press, Physiological and Biochemical Zoology, PLoS ONE, Proceedings of the National Academy of Sciences USA, Proceedings of the Royal Society of London Series B, Science, Zoological Studies
- **Media appearances and interviews**, Discovery Channel, German Public Radio, National Post (Toronto), Edmonton Journal, The Province (Vancouver), Calgary Herald, Vancouver Sun, Montreal Gazette, Ottawa Citizen, The Star Phoenix (Saskatoon), Leader-Post (Regina)

ACADEMIC SERVICE

- **Executive Committee Member**, Dept. Psychology at UM, 2018-2019
- **Diversity Committee Member**, Dept. Psychology at UM, 2016-2017
- **M-Sci Academy**, liaison for Dept. Psychology at UM, 2017-present
- **Biopsychology Admissions Committee Chair**, Biopsychology Area at UM (2016)
- **Biopsychology Admissions Committee Member**, Biopsychology Area at UM (2014-2015)
- **Biopsychology Colloquium Organizer**, Biopsychology Area at UM (Fall 2015)
- **Seminar Organizer**, integrative Behavioral Ecology XTreme Group, UM, 2015-present

- **Seminar Organizer**, Behavioral Biology Group Seminar Series, MSU, 2009
- **Graduate Student Representative**, MSU Department of Zoology Faculty Meetings, 2008
- **Graduate Student Representative**, MSU EEBB Program Seminar Committee, 2008-2009.

PROFESSIONAL MEMBERSHIPS

- American Society of Mammalogists, Animal Behavior Society, Arctic Institute of North America, British Ecological Society, North American Society of Comparative Endocrinology, Society for Integrative and Comparative Biology, Society for the Study of Evolution

COLLABORATORS

Nigel Bennett (*U. Pretoria*), Rudy Boonstra (*U. Toronto*), Stan Boutin (*U. Alberta*), Andreas Chavez (*Ohio State Univ.*), Tim Clutton-Brock (*Univ. Cambridge*), Christine Drea (*Duke*), Quinn Fletcher (*U. Manitoba*), Andre Ganswindt (*U. Pretoria*), Michael Heistermann (*German Primate Center*), Kay E. Holekamp (*Mich. State Univ.*), Murray Humphries (*McGill Univ.*), Charles J. Krebs (*U. British Columbia*), Jeff E. Lane (*Univ. Saskatchewan*), Oliver P. Love (*Univ. Windsor*), Andrew G. McAdam (*Univ. Guelph*), Marta Manser (*Zurich*), Amy Newman (*U. Guelph*), Pat Monaghan (*Glasgow*), John Orrock (*Univ. Wisconsin, Madison*), Rupert Palme (*Vienna*), Dustin Rubenstein (*Columbia*), Michael Sheriff (*Penn. State*), Eli Swanson (*U. Minnesota*), Ryan W. Taylor (*Stanford*), Cody Thompson (*Univ. Michigan*), Luc Wauters (*Univ. Insubria*)

ACADEMIC REFERENCES

Dr. Andrew G. McAdam (Ph.D. Advisor)

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Dr. Kay E. Holekamp (Informal Ph.D. Advisor, Senior Colleague)

University Distinguished Professor
Department of Zoology
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Dr. Rudy Boonstra (Collaborator)

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