

JOANNA L COLEMAN

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EDUCATION

- 2010 PhD, Urban Wildlife Ecology **University of Calgary**
Dissertation: The Effects of Urbanization on Prairie Bats
- 2002 MSc, Renewable Resources, distinction **McGill University**
Thesis: Ecology of the Sharp-shinned Hawk (*Accipiter striatus*) in Southern Québec
- 1999 BSc (Agriculture), great distinction **McGill University**
Major: Environmental Biology

PROFESSIONAL APPOINTMENTS

- 2021- **Assistant Professor**
Queens College at the City University of New York
- 2012-2021 **Senior Lecturer**
National University of Singapore
- 2011-2012 (fall-winter) **Assistant Professor**
University of Calgary in Qatar
- 2011 (summer) **Sessional Instructor**
University of Calgary in Qatar
- 2011 (winter), 2012 (spring) **Sessional Instructor**
University of Calgary
- 2003-2005 **Activities Coordinator**
Armand Frappier Museum – Biosciences Interpretation Centre

PUBLICATIONS

BOOKS

Schowalter T, Hofman E, Schmelzeisen R, Edwards MA, Lausen C, Engley L & **J Coleman**. 2013. Mammals of the Drumheller Region. Royal Alberta Museum, Edmonton, Alberta.

JOURNAL ARTICLES

Straka TM, **Coleman J**, MacDonald EA & T Kingston (2021) Human dimensions of bat conservation – 10 recommendations to improve and diversify studies of human-bat interactions. *Biol Conserv* **262**, 109304.

Lee KEM, Lum WHD & **JL Coleman** (2021) Ecological impacts of the LED-streetlight retrofit on insectivorous bats in Singapore. *PLoS ONE* **16**, e0247900.

Chan A, Aziz SA, Clare EL & **JL Coleman** (2020) Diet, ecological role and potential ecosystem services of the fruit bat, *Cynopterus brachyotis*, in a tropical city. *Urban Ecosys* **24**, 251-263.

Coleman JL, Ascher JS, Bickford D.... & RL Carrasco (2019) The top 100 conservation research questions in Southeast Asia. *Biol Conserv* **234**, 211-220.

Coleman JL & RMR Barclay (2013) Prey availability and the foraging activity of Prairie Bats in relation to urbanization. *J Mamm* **94**, 1111-1122.

Coleman JL & RMR Barclay (2012) Urbanization and the abundance and diversity of Prairie bats. *Urban Ecosys* **15**, 87-102.

Coleman JL & RMR Barclay (2011) Influence of urbanization on demography of little brown bats (*Myotis lucifugus*) in the Prairies of North America. *PLoS ONE* **6**, e20483.

Coleman J (2009) A strange tale of taillessness in a vespertilionid bat. *Acta Chiropter* **11**, 212-215.

Coleman JL, Bird DM & EA Jacobs (2002) Nest habitat use and productivity of sharp-shinned hawks nesting in an urban area. *Wilson Bull* **114**, 467-473.

Coleman, JL & DM Bird (2003) Urban sharp-shinned hawk productivity in Québec. *Bird Trends* **9**, 13-16.

IN PREPARATION (ALL PUBLICATION TYPES)

Chua J & **JL Coleman**. Effects of transboundary haze on bats. *Environ Res Lett*.

Goh FN, Carrasco Laceran AK, Li SFY & **JL Coleman**. Historical and current exposure of mammals to heavy metals in Singapore. *Chemosphere*.

Lim KN, Carter GG & **JL Coleman**. Impacts of unmanned aerial vehicles on insectivorous bats in Singapore. *PLoS ONE*.

Moretto L, **Coleman JL**, Davy C, Fenton MB, Korine C & K Patriquin, Eds. Urban Bats. Book includes 14 chapters, written by a total of 25 authors (I am lead/supporting author on three). Publication ca. November 2022 (*Springer*).

Qiu J, Tan S & **JL Coleman**. The carbon and water footprints of the Department of Biological Sciences at National University of Singapore. *IJSHE*.

Wong, JWH, Kwak M, Mendenhall I, Meier R & **JL Coleman**. Potentially pathogenic *Angiostrongylus* nematodes in invasive land snails *Achatina fulica* in Singapore. *Acta Tropica*.

CONFERENCE PRESENTATIONS

Chan AA, Abdul-Aziz S, Clare EL & **Coleman JL**. Fruit bats in Singapore – what have they done for us lately? XVII International Bat Research Conference, 28 Jul-1 Aug 2019, Phuket, Thailand.

Yip CYX & **JL Coleman**. Human knowledge and perceptions of bats – pilot study in Singapore. XVII International Bat Research Conference, 28 Jul-1 Aug 2019, Phuket, Thailand.

Coleman JL. Abundance, diversity, foraging activity, body condition and reproduction of urban and non-urban Prairie bats – is the city a bat population sink? 39th North American Symposium on Bat Research, 4-7 Nov 2009, Portland, OR, USA.

Coleman JL. The urban ecology of little brown bats (*Myotis lucifugus*) in Calgary, Alberta. 94th Annual Meeting of the Ecological Society of America, 2-7 Aug, 2009, Albuquerque, NM, USA.

Coleman JL. Effects of urbanization on Prairie bats in SW Alberta. 38th North American Symposium on Bat Research (NASBR), 22-25 Oct 2008, Scranton, PA, USA.

Coleman JL. The effects of urbanization on Prairie bats. XIV International Bat Research Conference and 37th NASBR, 19-23 Aug 2007, Mérida, Yucatan, Mexico.

Coleman JL. Prairie bats: city slickers or country bumpkins? Annual Meeting and Conference of the Northwest Section and Alberta Chapter of the Wildlife Society, 18-21 Mar 2007, Canmore, AB, Canada.

Coleman JL. Urban ecology of the sharp-shinned hawk. Prairie Universities Biological Symposium, 23-25 Feb 2005, Calgary, AB, Canada.

Coleman JL, Bird, DM & EA Jacobs. Nesting ecology of the sharp-shinned hawk (*Accipiter striatus*) in southern Quebec. Annual Meeting of the Raptor Research Foundation, 8-12 Nov 2000, Jonesboro, AK, USA.

Coleman JL, Bird, DM & EA Jacobs. Habitat selection by sharp-shinned hawks (*Accipiter striatus*) in southern Quebec. Annual Meeting of the Raptor Research Foundation, 3-7 Nov 1999, La Paz, Baja California Sur, Mexico.

INVITED PRESENTATIONS

From Jungle to Concrete Jungle (speaker). Looker Education Group. 15 Jan 2020

No wellness without Nature (speaker). Singapore American School Wellness Summit. 24 Aug 2019.

The environmental crisis (speaker). NUS Students Against Violation of the Earth. 29 Jan 2019

Nature deficit disorder (speaker & panelist). Biophilia and Nature Education Symposium. 19 Jan 2019

UN Women Singapore special forum on Women Tackling Climate Change (panelist). 16 Sept 2015

GRANTS

YEAR	DESCRIPTION	VALUE
2017	Wildlife Reserves Singapore Conservation Fund (WRSCF) – Diet and behaviour of dog-faced fruit bats (<i>Cynopterus brachyotis</i>) in Singapore	7 180 SGD
2016	AVA tender: AVA000/(P)027(15) – CRA with University of Queensland – Population biology and management of stray dogs in Singapore	412 345 SGD
2015	MOE Academic Research Fund (ACRF) Tier 1 – A comprehensive survey of bats and their ecosystem roles in Singapore; Co-investigator & grant author; NOTE: grant cancelled when PI resigned	163 367 SGD
2007	Bat Conservation International Student Scholarship	5 000 USD
2000	Quebec Society for the Protection of Birds, Alfred B Kelly Memorial Grant	3 000 CAD

AWARDS AND HONOURS

YEAR	DESCRIPTION	VALUE
2007-2008	Izaak Walton Killam Memorial Scholarship	25 000 CAD/yr
2005-2006	Natural Sciences and Engineering Research Council of Canada (NSERC) Post Graduate Scholarship (PGS) D	21 000 CAD/yr
2005, 2006	University of Calgary Dean's Research Excellence Award	3 000 CAD
2005	University of Calgary Dean's Entrance Scholarship	5 000 CAD
2000-2001	NSERC PGS A	17 300 CAD/yr
2000-2001	Fonds pour la Formation de Chercheurs et l'Aide à la Recherche NOTE: declined – cannot hold concurrently with NSERC	15 000 CAD/yr
2000	John Williamson Frederick Peacock Memorial Scholarship	5 000 CAD
2000	Walter M. Stewart Postgraduate Scholarship in Agriculture	4 000 CAD

1988	Mary Emily Brown Award	250 CAD
1997, 1998	J. W. McConnell Award	1 000 CAD
1997, 1998	Eliza M. Jones Award	400 CAD
1997	MacDonald medal for top academic standing in program	not monetary

NEWS COVERAGE

NUS NEWS – 31/10/2017 – “Unmasking the bat” <http://news.nus.edu.sg/highlights/unmasking-bat>

MacLean’s Magazine – 14/06/2011 – “The trouble with city bats”
<http://www.macleans.ca/society/technology/the-trouble-with-city-bats/>

ScienceDaily – 06/06/2011 – “Big city holds empty promise for bats”
<http://www.sciencedaily.com/releases/2011/05/110531135706.htm>

Calgary Herald – 07/07/2006 – “U of C studies gone batty”

CBC NEWS (TV) – 06/07/2006 – with Cam MacIntosh

TEACHING EXPERIENCE

National University of Singapore (NUS), Environmental Studies and Biological Sciences

COURSE CODE AND NAME	ROLE	SALIENT DETAILS
ENV1101 Environmental Studies: an Interdisciplinary Overview	Coordinator 2016- Co-lecturer 2015-2016	Fully revamped course, with: <ul style="list-style-type: none"> – New guiding theme of sustainability – All new content, activities, assessments – 15 % improvement in feedback scores – New course website
ENV3102 Environmental Challenges: Asian Case Studies II	Coordinator 2013-2020	Mandatory, year 3 field course (Philippines) Designed course from A to Z Duties: teaching, logistics, admin tasks, risk assessment Created course website
ENV3202 Summer Internships	Coordinator 2014-2020	Established industry partnerships Created resumé improvement session Academic supervision of interns Created course website
ENV4101 Environmental Management in Singapore	Co-ordinator 2019- Co-lecturer 2018-2019	Fully revamped course, with: <ul style="list-style-type: none"> – New format (weekly panel discussions) – All new assessments – Clear links to SDGs – 240 % improvement in feedback scores
LSM4265 Urban Ecology	Coordinator 2015- Co-lecturer 2014-2015	Revamped course, with: <ul style="list-style-type: none"> – Interdisciplinary, primary-literature based – New activities and assessments – 22 % improvement in feedback scores – Created course blog

COURSE CODE AND NAME	ROLE	SALIENT DETAILS
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University of Calgary in Qatar, Faculty of Nursing

ZOOL 269 Introduction to Human Anatomy and Physiology	Asst Prof 2011-2012	Created all-new content and assessments Implemented active learning, e.g., game-based Students from nine countries (five continents)
BIOL 231 Introduction to Cellular Biology	Instructor summer 2011	Created all-new content and assessments Students from three countries (two continents)

University of Calgary, Department of Biological Sciences

BIOL 305 The Human Organism / L'Organisme Humain II	Instructor 2010-11 & 2011-12	Created all-new content and assessments Taught in French (2011) and English (2012)
BIOL 451 Conservation Biology	Teaching Asst (TA), 2008-2010	Led weekly tutorial discussions Graded all assessments
BIOL 313 Introduction to Ecology & Evolution	TA, 2008-09	Led one weekly lab section Graded all lab assessments
BIOL233 Introduction to Organismal Biology	TA, 2006-07 to 2008-09	Led one weekly lab section Graded all lab assessments
ECOL 429 Ecology of Individuals	TA, 2005-06 and 2006-07	Led one weekly lab section Graded all lab assessments Improved lab activities

OTHER FORMAL EXPERIENCE

Armand Frappier Museum, Biosciences Interpretation Centre

Activities Coordinator

2003 to 2005

Coordinated group visits (for all school levels and the public)

Coordinated summer camps: (1) microbiology, (2) biotechnology, (3) environment & biodiversity

Developed pedagogical materials and approaches

Hired, trained and managed 30 part- and full-time museum guides

Handled budgets, logistics and procurement

Guided group and individual visits as needed

RESEARCH SUPERVISION (one-year undergraduate projects, unless otherwise indicated), [URL](#)

YEAR	TOPIC	NAME
2020-21	Impact of COVID-19 on perceptions and knowledge of bats by Singaporeans – Master	Rachel LEONG
	Belief in COVID-19 conspiracy theories at NUS	Afiq Bin Sulaiman
2019-20	Greening DBS – the departmental water footprint	QIU Jiahui
	Greening DBS – the departmental carbon footprint	TAN Yan Hui Shaina
	Disease ecology of rat lungworm in African land snails	Johnathan WONG
2018-19	Population genetic connectivity and structure of street dogs – Postdoc	Dr Émilie Sidonie Cros
	Sea turtle conservation measures – Master (Env Mgmt)	TAN Kelly Siang Ting
	Effects of low-aircraft flyovers on diurnal animals	CHEONG Hui Ping
	Exposure of mammals to heavy metals	GOH Fang Ni
	Effects of drones on bats	LIM Kai Ning
	Kiasuism and conscious consumption among youths	NG Shu Tian
2017-18	Diet and behaviour of dog-faced fruit bats in SG	Angela CHAN An Qi
	Perceptions and knowledge of bats by Singaporeans	Cheryl YIP Yi Xiu
	People who feed SG's street dogs – who and why?	PANG Yong Ting Roanna
	The switch to LED lighting – impacts on bats	LEE Ee Meng Kenneth
	The switch to LED lighting – impacts on insects	Xinyi YAO
2016-17	Impact of domestic cat predation on wildlife	Joan LIM Hui Mian
	Knowledge of SG's wildlife and inclination to conserve native biodiversity among NUS students	LOO Nicolette
	Effects of artificial light on behaviour of bats at a pond	Michelle GAN Wan Jie
	Effect of childhood Nature experience on environmental behaviour	LOH Jia Xin
	Behavioural responses of street dogs to human approach	LUM Wen Hao Deon
2015-16	Effects of haze on behaviour of bats at a pond	CHUA Li En Jacqueline
	Effects of low-aircraft flyovers on biological soundscapes	CHO Koi Hong Jermain
	Characteristics of artificial roosts used by bats	CHAI Jia Yi Zoe
	Impacts of traffic noise on the dawn chorus	KOH Wilson
2014-15	Social perspectives on urban beekeeping	WONG Zi Jin
	Diversity of birds in relation to age and structure of urban park connectors	Prhabakaran s/o Ramanathan
	Occurrence of seed dispersers in different forest types and fragments	TAN Kelly Siang Ting

RESEARCH EXPERIENCE (IN ADDITION TO GRADUATE WORK)

YEAR	DESCRIPTION	NATURE
2016-2019	Supervision of three Research Assistants and one postdoc Research Fellow to investigate street dogs in SG for the Government	PI
2013-2014	Research Consultant to Ian Mendenhall, postdoc RF at Duke-NUS Graduate Medical School, for study of bats as reservoirs of EIDs	Volunteer
2011	Field Assistant on bat survey in Waterton Lakes National Park, commissioned by Parks Canada	Paid
2011	Consultant – quantification of bat activity (as indicated by acoustic data) at wind turbines, for TransAlta, Alberta	Paid
2009	Field Assistant on bat survey in Little Missouri National Grassland, commissioned by US Forest Service	Paid
2008	Collected data and fur samples from small mammals and bats for stable isotope analysis by Erin Fraser, PhD candidate, University of Western Ontario	Volunteer
2005	Assisted with fall monitoring of Prairie rattlesnakes aggregating at hibernacula for Alberta Sustainable Resource and Development	Volunteer
2004	McGill Bird Observatory Co-coordinator: helped establish and run banding station to monitor migratory northern saw-whet owls (<i>Aegolius acadicus</i>)	Volunteer

SERVICE TO PROFESSION AND/OR TO UNIVERSITY

IUCN SSC Bat Specialist Group, 2020-

NUS FACULTY OF SCIENCE PEER REVIEWER, academic year 2019-20

REFEREE FOR JOURNALS

Basic Appl Ecol, Biol Conserv, CJZ, Glob Ecol Conserv, J Appl Ecol, J Ethol, J Mammal, J Urban Ecol, Mammal Res, Oecol Aust, PLoS ONE, Popul Ecol, Wildl Res

NUS STUDY TRIPS FOR ENGAGEMENT AND ENRICHMENT (STEER) – EXPERIENTIAL EDUCATION

Academic Lead for 2016 trip to Costa Rica

Invited speaker for workshop on outdoor experiential education for student-led STEER trips

CONFERENCES

Session Chair (Human Dimensions of Bat Conservation), 6th International Berlin Bat, 22-24 March 2021.

Co-organiser of the 2017 ASEAN Universities Conservation Biology Workshop; collaborative research effort involving 53 co-authors from academia, NGOs & government in 17 nations to identify the top research questions that would most advance the goals of biodiversity conservation and sustainable development in SE Asia, leading to paper (Coleman et al, 2019).

Member of the Scientific and Organising Committees (**Sustainability Coordinator**), Joint meetings of the Asian Chapters of the Association for Tropical Biology and Conservation and the Society for Conservation Biology, 29 June-2 July 2016.

Co-organiser of the Prairie Universities Biological Symposium, 2006.

COMMUNITY SERVICE / OUTREACH

Sep 2020	#WingedWednesday Webinars – Human dimensions of bat conservation	Bats without Borders
Aug 2020	Webinar – Bats in the media – panel discussion co-organised with four other universities. URL	NUS
Ongoing	Public education on bats and leading public bat surveys (talks and guided acoustic monitoring & mist netting)	Wildlife Reserves Singapore
2005-2010	Public education on bats for schools, Alberta Parks and general public (talks and guided mist netting evenings)	Robert Barclay’s lab, University of Calgary
1999-2005	Public education on raptors for schools, charitable organisations, media (radio, tv) and general public	Avian Science and Conservation Centre
1997-1998	Establishment and operation of the Wildlife Hotline (advice on urban animals, media appearances, public talks)	Dept of Natural Resource Sciences, McGill University

TRAINING / CERTIFICATION

Open Networked Learning (ONL202)	2020
Wilderness First Aid Responder	2017
PADI Open Water Diver	2013
Graduate Student Certificate in University Teaching & Learning (URL)	2010
Instructional Skills Workshop (URL)	2009
Workplace Hazardous Materials Information System	2005
Société des musées québécois – Recevoir son monde (URL)	2003
Raptor rehabilitation – Faculté de médecine vétérinaire, Université de Montréal	2001

OTHER SKILLS

COMPUTER SKILLS

MS Office: Access, Excel, PowerPoint, Word

Statistics: JMP, PAST, R, SAS, SPSS, Systat, Species Richness and Diversity IV

Spatial: qGIS

Adobe: Acrobat Pro, Illustrator, Lightroom, Photoshop

Online learning: Archipelago, Breeze, ExamSoft, MS Teams, Panopto, Sutori, Zoom

Web development: WordPress

Acoustics: Analoop, Batsound (learning), Soundscope (learning)

LANGUAGES

English and French (perfectly bilingual); Spanish (nearly fluent); German & Italian (conversational); Visayan & Chinese (beginner)