

Virginie Millien

Curriculum Vitae

March 2023

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Virginie Millien

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Born 7 August 1971; 2 children born in 2001 & 2011

Education

1999	Doctorate Paleontology, Paleobiology & Phylogeny, Institut des Sciences de l'Evolution, Université Montpellier II & Laboratoire Fonctionnement et Evolution des Ecosystèmes, Ecole Normale Supérieure, Paris - Mention "Très Honorable avec félicitations du jury"
1996	D.E.A. Paleontology, Université Montpellier II (Mention "Très Bien" , ranked 1st)
1996	Magistère: Earth Sciences, Ecole Normale Supérieure, Paris
1995	Maîtrise: Earth Sciences, Université Paris VI

Appointments

Since 2021	Academic Director , Barbados Field Study Semester Programs, McGill University
Since 2018	Affiliate member , Department of Biology and Wildlife, U. of Alaska Fairbanks
Since 2014	Associate Professor , Redpath Museum, McGill University
Since 2008	Associate Member , Department of Biology, McGill University
Since 2006	Curator of Natural Sciences , Redpath Museum, McGill University
2017-2018	Director , Gault Nature Reserve, McGill University
2008-2014	Assistant Professor , Redpath Museum, McGill University
2005	Curator of Paleontology , Redpath Museum, McGill University
2004-2005	Research Associate , Redpath Museum, McGill University
2003	Post-doctoral Fellow , Redpath Museum, McGill University
2000	Post-doctoral Fellow , Department of Ecology, Evolution & Marine Biology, University of California - Santa-Barbara

Funding

2022-2023	Sustainability Education Fellows Program, McGill University: \$8,000
2022-2028	FQRNT Regroupement Stratégique (A. Gonzalez & 104 other co-applicants): \$500,000 / year
2020-2024	IRSST Competitive Research Grant (G. Joannis, M. Varin, V. Millien): \$224,500
2017-2023	NSERC Discovery Grant: \$168,000 (\$28,000 / year)
2018-2019	SSHR Insight Development Grant (V. Dickenson, Giuliano F., Green D. and Millien V.): \$ 72,087
2016-2017	Contrat de recherche INSPQ Comité MI-PACC: \$15,000 (PI with 5 co-PIs)

2014-2015	QCBS Working Group: \$14,937 (PI with 6 other faculties at McGill, UQAM and UQAR) - declined
2012-2016	NSERC Discovery Grant: \$105,000 (\$21,000 / year)
2012-2014	FQRNT Projet de recherche en équipe (PI with co-PIs A. Gonzalez and N. Ogden): \$177,350 (\$53,450 / year plus \$17,000 for equipment)
2010-2013	Ouranos Grant, Québec Ministère des Ressources Naturelles et de la Faune (PI with co-PIs N. Ogden and F.-J. Lapointe): \$302,000
2013-2018	FQRNT Regroupement Stratégique (A. Gonzalez & 98 members of the center): \$570,000 / year
2009-2012	FQRNT Regroupement Stratégique (A. Gonzalez & 60 other co-applicants): \$300,000 / year
2010	QCBS seed Grant (PI with F.-J. Lapointe): \$5,000
2009	CEEB seed Grant, Department of Biology, McGill (PI with A. Hendry): \$2,500
2008-2011	Start-up Grant, McGill University: \$50,000
2007-2009	FQRNT Subvention “Etablissement de nouveaux chercheurs”: \$63,000 (\$20,000 / year plus \$23,000 for equipment)
2000	Post-doctoral grant “Bourse Lavoisier”, French Ministry of Foreign Affairs: 18,000 \$US
2000	Thomas J. Dee fellowship, Field Museum of Natural History, Chicago, USA: 1,000 \$US
1996-1999	Doctoral fellowship “Bourse MRT”, French Ministry of Education: ~ \$45,000
1996	Doctoral grant “Bourse DEA”, French Ministry of Education: ~ \$1,500

Publications

(My students are underlined in the list below)

Manuscripts in the work

55. Diamond J, Humphries MM, **Millien V** (in preparation). Chipping in: functional morphology of the American beaver under range expansion
54. Fellin E, Varin M, Millien V. (submitted). Risky business: Human exposure data is lacking from Lyme disease risk models. *Frontiers in Public Health*
53. Crandall KE, Kerr JT, **Millien V** (submitted, revision requested) Pathogen diversity is impacted by ticks and hosts at their expanding northward range limits. *Ecography*
52. Crandall KE, Olson LE, **Millien V** (submitted, revision requested) Rocky rules: spatial and temporal morphological variation in North American mammals. *Journal of Mammalogy*

Published or in press

(reprints are available on my web page: <http://virginiemillien.weebly.com/publications.html>; I also provide the journal impact factor (IF) and number of citations for each publication)

51. Wang, Y, Chen C, **Millien V** (2023) The integration of the small-island effect and nestedness pattern. *Journal of Biogeography*
50. Juman M, Millien V, Olson LEO, Sargis EJ (2022) Recent and rapid ecogeographical rule reversals in Northern Treeshrews. *Scientific Reports*: 19689 (IF = 4.99)

49. Crandall KE, Kerr JT, **Millien V**. (2022) Emerging tick-borne pathogens in eastern Canada: New detections of *B. odocoilei* and *R. rickettsia*. *Vector-Borne and Zoonotic Diseases* 22: 535-544 (IF = 2.52)
48. Hebert K, **Millien V**, Lessard JP (2021) Source pool diversity and proximity shape the compositional uniqueness of insular mammal assemblages worldwide. *Journal of Biogeography* 48: 2337-2349 (IF = 4.81, # citations = 5)
47. Andre A, Gaitan J, Michaux J, **Millien V** (2021) Long-term stress level in a small mammal species undergoing range expansion. *Mammalia* 85: 296-305 (IF = 1.19)
46. Garcia-Elfring A, Barrett R, **Millien V** (2019) Genomic signatures of selection along a climatic gradient in the northern range margin of the white-footed mouse (*Peromyscus leucopus*). *Journal of Heredity* 110: 684-695 (IF = 2.68, # citations = 10)
45. Wang Y, Chen C, **Millien V** (2018) A global synthesis of the small-island effect in habitat islands. *Proc. R. Soc. B* 285: 20181868. <http://dx.doi.org/10.1098/rspb.2018.1868> (IF = 5.53, # citations = 37)
44. Sargis EJ, **Millien V**, Woodman N, Olson LE. (2018) Rule reversals: ecogeographical patterns of body size variation in the common treeshrew (Mammalia, Scandentia). *Ecology and Evolution* 8: 1634-1645 (IF = 3.17, # citations = 22)
43. Marrotte RR, Gonzalez A, **Millien V** (2017) Functional connectivity of the white-footed mouse in Southern Quebec, Canada. *Landscape Ecology* 32: 1987-1998 (IF = 5.04, # citations = 12)
42. **Millien V**, Ledevin R, Boué C, Gonzalez A (2017) Rapid morphological divergence in two closely related and co-occurring species over 50 years. *Evolutionary Ecology* 31:847-864 (IF = 2.07, # citations = 11)
41. Garcia-Elfring A, Barrett R, Combs M, Davies J, Munshi-South J, **Millien V** (2017) Admixture on the northern front: population genomics of range expansion in the white-footed mouse (*Peromyscus leucopus*) and evidence of introgression from the deer mouse (*Peromyscus maniculatus*). *Heredity* 119: 447-458 (IF = 3.83, # citations = 33)
40. André A, **Millien V**, Galan M, Ribas A, Michaux J (2017) Effects of parasite and historic driven selection on the diversity and structure of a MHC-II gene in a small mammal species (*Peromyscus leucopus*) undergoing range expansion. *Evolutionary Ecology* 31: 785-801 (IF = 2.07, # citations = 6)
39. André A, Mouton A, **Millien V**, Michaux J (2017) Liver microbiome of *Peromyscus leucopus*, a key reservoir host species for emerging infectious diseases in North America. *Infection, Genetics and Evolution* 52: 10-18 (IF = 4.39, # citations = 17)
38. Xu A, Han X, Zhang X, **Millien V**, Wang Y (2017) Nestedness of butterfly assemblages in the Zhoushan Archipelago, China: area effects, life-history traits and conservation implications. *Biodiversity and Conservation* 26: 1375-1392 (IF = 4.30, # citations = 17)
37. Leo ST, Gonzalez A, **Millien V** (2017). The genetic signature of range expansion in a disease vector - the black-legged tick. *Journal of Heredity* 108: 176-183 (IF = 2.68, # citations = 10)
36. Leo ST, **Millien V** (2016) Microsatellite markers reveal low frequency of natural hybridization between the white-footed mouse (*Peromyscus leucopus*) and deer mouse (*Peromyscus maniculatus*) in southern Quebec, Canada. *Genome* 60:454-463 (IF = 2.45, # citations = 17)
35. Wang Y, **Millien V**, Ding P (2016) On empty islands and the small-island effect. *Global Ecology*

and Biogeography 25: 1333-1345 (IF = 6.91, # citations = 29)

34. Gaitan J., **Millien V** (2016) Stress level, parasite load, and movement pattern in a small mammal reservoir host for Lyme disease. *Canadian Journal of Zoology* 94: 565-573 (IF = 1.65, # citations = 26)
33. Leo ST, Gonzalez A, **Millien V** (2016) Multi-Taxa Integrated Landscape Genetics for Emerging Infectious Diseases: Deciphering variables influencing zoonotic disease emergence based on population and landscape genetics. *Genome* 59: 349-361 (IF = 2.45, # citations = 16)
32. Fiset J, Tessier N, **Millien V**, Lapointe F-J (2015) Phylogeographic structure of the white-footed mouse and the deer mouse, two Lyme disease reservoir hosts in Quebec. *PLoS ONE* 10(12): e0144112 (IF = 3.75, # citations = 32)
31. Turney S, Gonzalez A, **Millien V** (2014) The negative relationship between mammal host diversity and Lyme disease incidence strengthens through time. *Ecology* 95: 3244-3250 (IF = 6.43, # citations = 35)
30. Marrotte RR, Gonzalez A, **Millien V** (2014) Landscape resistance and habitat combine to provide an optimal model of genetic structure and connectivity at the range margin of a small mammal. *Molecular Ecology* 23: 3983-3998 (IF = 6.62, # citations = 50)
29. Vander Wal E, Garant D, Calmé S, Chapman CA, Festa-Bianchet M, Rioux-Paquette S, **Millien V**, Pelletier F (2014) Applying evolutionary concepts to wildlife disease ecology and management. *Evolutionary Applications* 7: 856-868 (IF = 4.93, # citations = 57)
28. Simon JA, Marrotte RR, Desrosiers N, Fiset J, Gaitan J, Gonzalez A, Koffi JK, Lapointe F-J, Leighton PA, Lindsay LR, Logan T, Milord F, Ogden NH, Rogic A, Roy-Dufresne E, Suter D, Tessier N, **Millien V** (2014) Climate change and habitat fragmentation drive the occurrence of *B. burgdorferi*, the agent of Lyme disease, at the northern limit of its distribution. *Evolutionary Applications* 7: 750-764 (IF = 4.93, # citations = 153)
27. Martinez JJ, **Millien V**, Simone I, Priotto JW (2014) Ecological preference between generalist and specialist rodents (Cricetidae, Sigmodontinae): spatial and environmental correlates of phenotypic variation. *Biological Journal of the Linnean Society* 112: 180-203 (IF = 2.28, # citations = 32)
26. Souto-Lima RB & **Millien V** (2014) The influence of environmental factors on the morphology of red-backed voles *Myodes gapperi* (Rodentia, Arvicolinae) in Quebec and Western Labrador. *Biological Journal of the Linnean Society* 112: 204-218 (IF = 2.28, # citations = 26)
25. Roy-Dufresne E, Logan T, Simon JA, Chmura G, **Millien V** (2013) Poleward expansion of the white-footed mouse (*Peromyscus leucopus*) under climate change: implications for the spread of Lyme disease. *PLoS ONE* 8(11): e80724 (IF = 3.75, # citations = 108)
24. Teplitsky C & **Millien V** (2013) Climate warming and Bergmann's rule through time: is there any evidence? *Evolutionary Applications* 7 : 156-168 (IF = 4.93, # citations = 177)
23. Ledevin R & **Millien V** (2013) Congruent morphological and genetic differentiation as a signature of range expansion in a fragmented landscape. *Ecology and Evolution* 3(12): 4172-4182 (IF = 3.17, # citations = 27)
22. Rogic A, Tessier N, Legendre P, Lapointe F-J, **Millien V** (2013) Genetic structure of the white-footed mouse in the context of the emergence of Lyme disease in southern Quebec. *Ecology and Evolution*. 3: 2075-2088 (IF = 3.17, # citations = 48)
21. Mechai S, Feil EJ, Garipey TD, Gregory TR, Lindsay LR, **Millien V**, Ogden NH (2013)

- Investigation of the population structure of the tick vector of Lyme disease *Ixodes scapularis* (Acari: Ixodidae) in Canada using mitochondrial Cytochrome C Oxidase subunit I gene sequences. *Journal of Medical Entomology* 50: 560-570 (IF = 2.44, # citations = 23)
20. Hendry AP, **Millien V**, Gonzalez A, Larsson HCE (2012) How humans influence evolution on adaptive landscapes. In *The Adaptive Landscape in Evolutionary Biology*, Svensson, E. & Calsbeek, R. (eds). Pp. 180-197. (#citations = 8)
 19. **Millien V** & Gonzalez A (2011) The maximal body mass-area relation in island mammals. *Journal of Biogeography*. 38: 2278-2285 (IF = 4.81, # citations = 9)
 18. **Millien V** (2011) Mammals evolve faster on smaller islands. *Evolution*, 65(7): 1935-1944 (IF = 4.17, # citations = 52)
 17. **Millien V** & **Bovy H** (2010) When teeth and bone disagree: body-mass estimation of a giant extinct rodent. *Journal of Mammalogy*, 91(1): 11-18 (IF = 2.29, # citations = 84)
 16. **Millien V** (2008) The largest among the smallest: the body mass of the giant rodent *Josephoartigasia monesi*. *Proc. R. Soc. B*, 275(1646): 253-255 (IF = 5.53, # citations = 50)
 15. **Millien V** (2007) Spurious or Island Effect? A Response to J. A. Perez-Claros and J. C. Aledo's Comment on "Morphological Evolution Is Accelerated among Island Mammals". *PloS Biology*, 5(7): e176 (IF = 9.59, # citations = 3)
 14. **Millien V** (2006) Morphological evolution is accelerated among island mammals. *PloS Biology*, 4(10): e321 (IF = 9.59, # citations = 275)
 13. **Millien V**, Lyons SK, Olson L, Smith FA, Wilson AB, Yom-Tov Y (2006) Ecotypic variation in the context of global climate change: revisiting the rules. *Ecology Letters*, 9:853-869 (IF = 11.27, # citations = 451)
 12. **Millien V** & Damuth J (2004) Climate change and size evolution in an island rodent species: new perspectives on the island rule. *Evolution*, 58:1353-1360 (IF = 4.17, # citations = 97)
 11. **Millien V** (2004) Relative effects of climate change, isolation and competition on body size evolution in the Japanese field mouse *Apodemus argenteus*. *Journal of Biogeography*, 31:1267-1276 (IF = 4.81, # citations = 53)
 10. Denys C, Lecompte E, Granjon L, Baylac M, Cordeiro P, Cornette R, Dobigny G, Fichet-Calvet E, Hugot J-P, Meslage C, **Millien V**, Petrillo P, Volobouev V, Welz M (2003) Integrative systematics: the importance of combining various techniques for increasing knowledge of African murinae. In: Singleton G.R., Hinds L.A., Krebs C.J. & Spratt D.M. (eds) *Rats, mice and people: rodent biology and management*: 499-506 (# citations = 15)
 9. **Millien V** & Jaeger J-J (2001) Size evolution of the lower incisor of *Microtia*, a genus of endemic murine rodents from the late Neogene of Gargano, Southern Italy. *Paleobiology*, 27: 379-391 (IF = 3.15, # citations = 21)
 8. Renaud S & **Millien V** (2001) Intra- and interspecific morphological variation in the field mouse species *Apodemus argenteus* and *A. speciosus* in the Japanese archipelago: the role of insular isolation and biogeographic gradients. *Biological Journal of the Linnean Society* 74: 557-569 (IF = 2.28, # citations = 80)
 7. **Millien-Parra V** & Loreau M (2000) Community composition and size structure of murid rodents in relation to the biogeography of the Japanese archipelago. *Ecography*, 23: 413-423 (IF = 6.80, # citations = 27)

6. **Millien-Parra V** (2000) Species differentiation among muroid rodents on the basis of their lower incisor size and shape: ecological and taxonomical implications. *Mammalia*, 64: 221-239 (IF = 1.20, # citations = 14)
5. **Millien-Parra V** (2000) The evolution of *Microtia* Freudenthal, 1976 (Mammalia, Rodentia), an endemic genus from the neogene of the Gargano island, Southern Italy. *Bonner Zoologische Monographien*, 46: 381-389 (IF = 0.50, # citations = 3)
4. **Millien-Parra V & Jaeger J-J** (1999) Island biogeography of the Japanese terrestrial mammal assemblage: an example of a relict fauna. *Journal of Biogeography*, 26: 959-972 (IF = 4.81, # citations = 177)
3. **Parra-Millien V, Loreau M, Jaeger J-J** (1999) Incisor size and community structure in rodents: two tests of the role of competition. *Acta Oecologica*, 20: 93-101 (IF = 1.93, # citations = 27)
2. **Parra-Millien V, Bocherens H, Jaeger J-J** (1999) The skull of *Microtia*, an extinct burrowing murine rodent of the late Neogene Gargano palaeoisland. *Lethaia*, 32: 89-100 (IF = 1.60, # citations = 19)
1. **Parra-Millien V & Jaeger J-J** (1998) Estimation de la taille et du poids corporel chez les rongeurs (Rodentia, Mammalia) à partir de la taille des incisives. *Comptes Rendus de l'Académie des Sciences, Paris, Série IIa, Sciences de la Terre et des Planètes*, 326: 79-85 (IF = 2.36, # citations = 10)

Other Publications

Four **chapters** in the edited encyclopedia « La Planète Terre » (2002, ed. Larousse-Bordas): La géothermie, Les ressources terrestres, Echelle des temps fossilifères et Histoire de la vie, Le Paléozoïque.

Millien V (1999) Taille des incisives et structure de taille des communautés de rongeurs: aspects écologiques et évolutifs en milieu insulaire. PhD dissertation, Institut des Sciences de l'Evolution, Université Montpellier II, France.

Presentations and Communications

Invited Talks at Workshops and Symposia

Millien V. *Zoonotic diseases, biodiversity and climate change.* **Canadian Pest Management Annual Conference**, Quebec QC, 2020.

Millien V. *Zoonotic diseases, biodiversity and climate change.* **Annual QCBS Symposium, Biodiversity and Human Well Being Nexus panel**, Montreal QC, 2015.

Millien V, Fiset J, Gonzalez A, Lapointe FJL, Marrotte RR, Ogden NH, Rogic A, Roy-Dufresne E, Simon J. *La repartition de la souris a pattes blanches et l'émergence de la maladie de Lyme au Quebec.* **QCBS-Ouranos joint workshop**, Montreal QC, 2013.

Millien V, Fiset J, Gonzalez A, Lapointe FJL, Marrotte RR, Ogden NH, Rogic A, Roy-Dufresne E, Simon J. *The expansion of the white-footed mouse and the emergence of Lyme disease in Quebec.* **Canadian Society of Ecology and Evolution**, Kelowna BC, 2013 (**Symposium: “Eco-evolutionary perspectives on infectious diseases”**).

Millien V, Fiset J, Lapointe FJL, Marrotte RR, Ogden NH, Rogic A, Roy-Dufresne E. *Effets combinés de la fragmentation de l'habitat et des changements climatiques sur l'expansion de la maladie de*

Lyme au Québec. Ouranos Annual Symposium, Montreal, 2012 (**Symposium S’adapter en santé**).

Millien V, Fiset J, Lapointe FJL, Marrotte RR, Ogden NH, Rogic A, Roy-Dufresne E. *Effets combinés de la fragmentation de l’habitat et des changements climatiques sur l’expansion de la maladie de Lyme au Québec. ACFAS*, Montreal, 2012 (**Symposium EcoBioCC**).

Millien V. *The Rates of Morphological Evolution in Island Mammals. European Congress on Mammalogy*, Siena, Italy, 2007 (**Symposium: “Island Mammals”**).

Millien V. *Island Evolution and Climate Change: are there any rules? Society for the Study of Evolution Annual Meeting, Evolution 2005*, University of Alaska Fairbanks, 2005 (**Symposium: “Ecotypic variation in the context of global climate change: revisiting the rules”**).

Invited seminars

Millien V. *Environmental changes: are mammals keeping up? University of Ottawa*, Biology Department, Ottawa, 2018.

Millien V. *Zoonotic diseases, biodiversity and climate change: the emergence of Lyme disease in Southern Quebec. Université de Montreal, IRBV*, Montreal, 2018.

Millien V. *Zoonotic diseases, biodiversity and climate change: pattern of emergence of Lyme disease in Southern Quebec. Yale University*, Center for Biodiversity and Climate Change, New Haven, USA, 2017.

Millien V. *Zoonotic diseases, biodiversity and climate change: pattern of emergence of Lyme disease in Southern Quebec. The University of Maine*, School of Biology and Ecology, Orono, USA, 2016.

Millien V. *Mammalian Evolution in a Changing Environment. University of Zurich*, Institute of Evolutionary Biology and Environmental Studies, Zurich, Switzerland, 2013.

Millien V. *Mammalian Evolution in a Changing Environment. Imperial College London*, Department of Life Sciences, Ascot, UK, 2013.

Millien V. *Mammalian Evolution in a Changing Environment. Guelph University Integrative Biology Departmental seminar*, Guelph, 2012.

Millien V. *The expansion of Lyme disease in Southern Quebec. Redpath Museum, McGill University*, Montreal, 2011.

Millien V. *Les Taux d’Evolution Morphologique. Société de Paléontologie du Québec*, Montreal, 2009.

Millien V. *Size Matters: adaptation in a changing environment. Earth and Planetary Science, McGill University*, Montreal, 2009.

Millien V. *Size Matters: adaptation in a changing environment. Biology Department, McGill University*, Departmental seminar, Montreal, 2008.

Millien V. *The Past as a Template for the Future: Species Adaptation and Environmental Change. Redpath Museum, McGill University Departmental seminar*, Montreal, 2007.

Millien V. *Eléphants miniatures et Rats Géants: Insularité et Changements Climatiques. Département de Chimie-Biologie, Université du Québec à Trois-Rivières Departmental seminar*, Trois-Rivières, 2007.

- Millien V.** *Evolution insulaire et changements climatiques: reconsiderations des lois de variation ecotypiques.* **Société de Paléontologie du Québec**, Montreal, 2006.
- Millien V.** *Evolution insulaire et changements climatiques: reconsidération des lois de variation ecotypiques.* Département des Sciences Biologiques, **Université du Québec à Montréal** Departmental seminar, Montreal, 2006.
- Millien V.** *Island Evolution and Climate Change: are there any rules?* Biology Department Organismal Series Seminar, **McGill University** Montreal, 2004.
- Millien V.** *Evolutionary patterns in recent and fossil rodents.* **National Museum of Natural History** Departmental seminar, Leiden, The Netherlands, 2002.

Conference Presentations

- Millien V**, Gonzalez A, Lapointe F-J, Ogden N.H. Climate change and habitat fragmentation drive the occurrence of *B. burgdorferi*, the agent of Lyme disease, at the most northern limit of its distribution. **Canadian Society of Ecology and Evolution**, Montreal, 2014.
- Millien V.** et al. *The expansion of the white-footed mouse and the emergence of Lyme disease in Quebec.* **11th International Mammalogical Congress**, Belfast UK, 2013.
- Millien V.** *Accelerated evolution in island mammals.* **Canadian Society of Ecology and Evolution**, Halifax, 2009.
- Millien V.** *When teeth and limbs disagree: How big was the giant fossil rodent Phoberomys?* **Annual Meeting of the Canadian Zoologists Society**, Montreal, 2007.
- Millien V.** *Evolutionary Rates on Islands: How fast can an elephant shrink?* **Canadian Paleontology Conference**, Montreal, 2006.
- Millien V.** **Int. Symp. on Isolated Vertebrate Communities in the Tropics**, Bonn, Germany, 1999.
- Millien V.** **Journées Scientifiques de l'URA 258**, Paris, France, 1999.

Contributed Conference Presentations

(my students are underlined in the list below)

- Juman M, Millien V, Olson L, Sargis EJ. *Recent and rapid ecogeographical rule reversals in Northern treeshrews.* **13th International Mammalogical Congress**, Anchorage AK, USA, July 2023.
- Fellin E, Varin M. Millien V. *Analyzing the variability in Lyme disease risk maps: a humanistic approach.* **ESA CSEE Annual Meeting**, Montreal 2022.
- Crandall K, Kerr J. Millien V. *Abiotic and biotic drivers of blacklegged tick (*Ixodes scapularis*) abundance in distinct regions of establishment in Canada.* **ESA CSEE Annual Meeting**, Montreal 2022.
- Diamond J, Humphries M, Millien V. *Quantifying intraspecific functional diversity of the North-American beaver as related to habitat.* **QCBS Annual Conference**, Montreal, 2021 (online)
- Hollet K, Truchon F, Millien V. *White-tailed deer distribution and public recreational usage in a nature reserve.* **QCBS Annual Conference**, Montreal, 2021 (online)
- Foley C, Guzman H, Millien V. *The environmental drivers of humpback whale (*Megaptera novaeangliae*) behaviour.* **5th World Conference on Marine Biodiversity**, online, 2020

- Foley C, Guzman H, **Millien V**. *The environmental drivers of humpback whale (*Megaptera novaeangliae*) movement and habitat utilization*. **QCBS Annual Conference**, Montreal, 2019
- Crandall K, Olson LE, **Millien V**. *Rules are meant to be broken: size variation and Bergmann's rule in North American mammals* **QCBS Annual Conference**, Montreal, 2019.
- Benbahtane J, Valles H, **Millien V**. *Millennial-scale dynamics of sea urchin communities on Tropical Eastern Pacific reefs*. **QCBS Annual Conference**, Montreal, 2019.
- Truchon F, **Millien V**, St-Laurent MH. *Effect of hiker presence on white-tailed deer spatial use patterns and impacts*. **Student Conference on Conservation Science AMNH**, New-York, 2019.
- Crandall K, **Millien V**. *Rules are meant to be broken: size variation and Bergmann's rule in North American mammals* **QCBS Annual Conference**, Montreal, 2018.
- Truchon F, **Millien V**. *Examining the impact of white-tailed deer (*Odocoileus virginianus*) browsing on white trillium (*Trillium grandiflorum*) in a protected old-growth forest*. **QCBS Annual Conference**, Montreal, 2018.
- Foley C, **Millien V**. *Investigating the Effects of Climate Change on the Diversity of Quebec Mammals*. **QCBS Annual Conference**, Montreal, 2018.
- Benbahtane J, Valles H, **Millien V**. *The effect of fishing on parrotfish community structure and herbivory and its consequences on coral reef health*. **QCBS Annual Conference**, Montreal, 2018.
- Lessard JP, Hebert K, **Millien V**. *Phylogenetic diversity of the species pool drives species sorting in insular mammal assemblages worldwide*. **International Biogeography Society Conference**, Malaga, Spain, 2019.
- Andre A, Mouton A, **Millien V**, Michaux J. *The pathobiome of the Lume disease main reservoir host in Southern Quebec (*Peromyscus leucopus*)*. **Pathobiome 2018**: pathogens in microbiota in hosts, Ajaccio, Corsica, France, 2018.
- Crandall K, **Millien V**. *L'impact des changements climatiques sur la biodiversité: la règle de Bergmann et la variation intraspécifique des caractéristiques morphologiques*. **QCBS Annual Conference**, Montreal, 2017
- Nordlund J, **Millien V**. *Multispecies distribution modeling: using integrative methods to project assemblages of vertebrate tick hosts of Lyme disease*. **QCBS Annual Conference**, Montreal, 2017
- Nordlund J, **Millien V**. *Multispecies distribution modeling: using integrative methods to project assemblages of vertebrate tick hosts of Lyme disease*. **Crossroads Interdisciplinary Health Conference**, Halifax, 2017
- Hebert K, Lessard J-P, **Millien V**. *Community assembly of island mammal metacommunities: the role of the regional species pool*. 8th Biennial conference of the **International Biogeography Society Conference**, Tuscon USA, 2017
- Nordlund J, **Millien V**. *Multispecies distribution modeling: using integrative methods to project assemblages of vertebrate tick hosts of Lyme disease*. **QCBS Annual Conference**, Montreal, 2016
- Hebert K, Lessard J-P, **Millien V**. *Community assembly of island mammals: the role of the regional species pool*. **QCBS Annual Conference**, Montreal, 2016 (Poster presentation)
- Sargis EJ, **Millien V**, Woodman N, Morningstart NC, Bell TN, Olson LE. *Rule reversals: patterns of body size variation in the common treeshrew (*Scandantia, Tupaiidae*)*. **96th Annual Meeting of the American Society of Mammalogists**, Minneapolis USA, 2016.

- Nordlund J, Garcia-Elfring A, Hebert K, Millien V. *The effect of environmental change on small mammal diversity.* **QCBS Annual Conference**, Montreal, 2015 (Poster presentation).
- Leo ST, Gonzalez A, Millien V. *Multi-Taxa Integrated Landscape Genetics for Emerging Infectious Diseases.* **QCBS Annual Conference**, Montreal, 2014.
- Andre A, Gaitan J, Millien V, Michaux J. *Comparaison des méthodes d'évaluation du stress chez un rongeur (Peromyscus leucopus).* **QCBS Annual Conference**, Montreal, 2014.
- Leo ST, Gonzalez A, Ogden N, Millien V. *Integrated landscape genetics of the Lyme disease vector (Ixodes scapularis) and its host (Peromyscus leucopus) in southern Quebec.* **Canadian Society of Ecology and Evolution**, Montreal, 2014.
- Andre A, Michaux J, Millien V. *Biological characteristics of a rodent species in expansion.* **Canadian Society of Ecology and Evolution**, Montreal, 2014.
- Simon JA, Roy-Dufresne E, Marrotte RR, Logan T, Gonzalez A, Ogden NH, Millien V. *Modélisation des patrons d'expansion de la maladie de Lyme au Québec : effet des facteurs climatiques et de l'habitat sur la présence du réservoir principal de la maladie, la souris à pattes blanches.* **Société Française pour l'Etude du Comportement Animal**, Dijon, France, 2013.
- Turney S, Millien V, Gonzalez A. *The relationship between small mammal diversity and disease risk in the context of Lyme disease emergence.* **QCBS Annual Conference**, Montreal, 2013.
- Leo ST, Gonzalez A, Millien V. *Integrated landscape genetics of the Lyme disease vector (Ixodes scapularis) and its host (Peromyscus leucopus) in Southern Quebec.* **QCBS Annual Conference**, Montreal, 2013.
- Gaitan J & Millien V. *Effects of forest patch characteristics, parasite load and stress level on the movement and dispersal patterns of the white-footed mouse within a fragmented landscape.* **QCBS Annual Conference**, Montreal, 2013.
- Gaitan J & Millien V. *Effects of forest patch characteristics, parasite load and stress level on the movement and dispersal patterns of the white-footed mouse within a fragmented landscape.* **37th Congrès Annuel de la Société Québécoise pour l'Étude Biologique du Comportement**, Montreal, 2013.
- Daigle T, Davies JT, Millien V. *A Genetic Approach to Investigate Causes Behind Historical and Present Day Range Expansion in White-Footed Mice.* **QCBS Annual Conference**, Montreal, 2012.
- Fiset J, Millien V, Lapointe F.-J. *Phylogéographie comparée de la souris à pattes blanches et de la souris sylvestre, deux vecteurs de la maladie de Lyme au Québec.* **QCBS Annual Conference**, Montreal, 2012.
- Gaitan J & Millien V. *The effects of parasite load and stress level on the movement and dispersal patterns of the white-footed mouse within a fragmented landscape.* **QCBS Annual Conference**, Montreal, 2012 (Poster Presentation).
- Leo ST, Gonzalez A, Ogden NH, Millien V. *Integrated landscape genetics of the Lyme disease vector (Ixodes scapularis) and its host (Peromyscus leucopus) in southern Quebec.* **QCBS Annual Conference**, Montreal, 2012.
- Marrotte RR, Millien V, Gonzalez A. *The influence of local habitat characteristics, the matrix and the forest patch network on the genetic differentiation of the white-footed mouse (Peromyscus leucopus) in Montérégie, Québec.* **QCBS Annual Conference**, Montreal, 2012.

- Martínez JJ, Millien V, Simone I, Priotto JW. *Exploring the microgeographic phenotypic variation of rodents from agroecosystems of the center of Argentina: differences between generalist and specialist species*. **Congreso Latinoamericano de Mastozoología (Latin American Congress of Mammalogy)**, Buenos Aires, Argentina, 2012.
- Ogden NH, Feil E, Gonzalez A, Margos GM, Millien V. *Using landscape genetics of *Borrelia burgdorferi* in a zone of emergence to understand continental phylogeography*. **Gordon Research Conference (The Biology of Spirochetes)**, Ventura California, 2012.
- Roy-Dufresne E, Chmura G, Millien V. *White-footed mouse projected distribution in Québec; a question of time and space under climate change*. **Association of American Geographers Annual meeting**, New-York, New-York, 2012.
- Roy-Dufresne E, Chmura G, Millien V. *Northern range expansion of the white-footed mouse (*Peromyscus leucopus*) under climate change, and its consequences on the emergence of Lyme disease in Québec*. **QCBS Annual Conference**, Montreal, 2012.
- Turney S, Gonzalez A, Ogden N, Millien V. *Modeling the effects of mammal diversity on Lyme disease risk as host, vector, and pathogen populations invade a landscape*. **QCBS Annual Conference**, Montreal, 2012.
- Roy-Dufresne E, Chmura G, Millien V. *Projected distribution of the white-footed mouse with climate change: a question of time and space*. **QCBS Annual Conference**, Montreal, 2011.
- Rogic A, Lapointe F-J, Millien V. *Genetic structure of white-footed mouse 13:45 populations from sky-islands in southern Québec: impact of climate warming and fragmentation on the spread of Lyme Disease*. **QCBS Annual Conference**, Montreal, 2011.
- Daigle T, Davies JT, Millien V. *Genetic Variance in White-Footed Mice Populations Through Spatial and Temporal Scales*. **QCBS Annual Conference**, Montreal, 2011 (Poster Presentation).
- Fiset J, Lapointe F-J, Tessier N, Millien V.: *Phylogeography of the white-footed mouse, *Peromyscus leucopus*, and the spread of Lyme disease*. **QCBS Annual Conference**, Montreal, 2011 (Poster Presentation).
- Lima R & Millien V. *Morphological variation of the red-backed vole (*Myodes gapperi*) in Québec*. **QCBS Annual Conference**, Montreal, 2011 (Poster Presentation).
- Suter D, Gaitan-Camacho J, Lapointe F-J, Ogden NH, Millien V. *Lyme disease and the white-footed mouse in Québec*. **QCBS Annual Conference**, Montreal, 2011 (Poster Presentation).
- Rogic A & Millien V. *Evolution of the population structure in the invasive rodent species *Peromyscus leucopus* from sky-islands in Southern Québec: impact of geographic barriers and climate warming*. **QCBS Annual Conference**, Montreal, 2010 (Poster Presentation).
- Lima R & Millien V. *Morphometrics of the skull of *Myodes gapperi* across a latitudinal gradient in Québec*. **QCBS Annual Conference**, Montreal, 2010 (Poster Presentation).

Working groups

QCBS/CSBQ Working Group: Environmental changes and their effect on diversity, within and across species, 2014.

Diversitas EcolEvol Workshop: Ecological Interactions and Range Evolution Under Environmental Change, Mont Saint-Hilaire, 2012. (Presentation in 2012: **Millien V.** *Range Expansion and Disease Spread*).

QCBS/CSBQ Biodiversity and Disease Working Group: Ecological and Evolutionary Perspectives on Infectious Disease Threats to Wildlife Biodiversity in Theory and Practice, 2011-2013.

QCBS/CSBQ Genetic, phylogenetic, and functional diversity along environmental gradients Working Group, 2010-2012.

National Center for Ecological Analysis and Synthesis, Santa Barbara, **Body Size in Ecology and Paleocology: Linking Pattern and Process Across Spatial, Temporal and Taxonomic Scales Working group** (Presentation in 2000: **Millien V.** *The ecological and evolutionary aspects of mammal community structure, what can we learn from island mammals*).

Students & Visiting Scholars

Visiting Professors

1. Pr. Yanping Wang (Zhejiang University) – Sabbatical fellow (2015) and visiting professor (2016 & 2017)

Post-Doctoral Fellows

2. Ronan Ledevin, Postdoctoral Fellow (2013). *The effect of invasion in a fragmented landscape on the skull morphology in the white-footed mouse.*

1. Juan Martinez, Conicet Postdoctoral Fellow (2012). *Exploring the microgeographic phenotypic variation of rodents from agroecosystems in Central Argentina.*

PhD students

4. Erica Fellin, PhD Biology (2021 – present, FRQNT-Funded Internship Program at a College Technology Transfer Centre (CCTT)). *Modelling the vector-borne diseases risks for outdoor workers in Quebec under climate and land-use changes.*

3. Kirsten Crandall, PhD Biology (2018 – present, Hydro-Quebec Doctoral Fellowship, PGSD NSERC Scholarship, FRQNT Scholarship, co-supervision with J. Kerr, U. Ottawa). *Environmental and biotic drivers of pathogen prevalence of tick-borne diseases: a comparison between Quebec and Ontario.*

2. Adrien Andre, PhD Université de Lieges, Belgium (2013 – 2017; FRIA doctorate scholarship from the Belgium Fonds de la Recherche Scientifique; co-supervision with J. Michaux). *Etude des caractéristiques biologiques d'une espèce de mammifère en phase d'expansion. Impact sur son rôle dans la maladie de Lyme.*

1. Sarah Leo, PhD Biology (2012 – 2016; NSERC Scholarship, co-supervision with A. Gonzalez). *Integrated landscape genetics of the Lyme disease vector (*Ixodes scapularis*) and its host (*Peromyscus leucopus*) in southern Québec.*

MSc students

19. **Kelsey Wilson**, MSc Biology (2022 – present, CGSM NSERC and FRQNT Scholarships, Graduate Mobility Award, McGill University; co-supervision with R. Ibanez, STRI, Panama). *Analysis of the effect of climate warming and infectious chytrid fungus on the reintroduction success of critically endangered Panamanian golden frog tadpoles.*
18. **Kari Hollett**, MSc Biology (2021 – present, Gault Nature Reserve Research Award). *Vector-borne disease risk: a comprehensive small-scale analysis at the human-wildlife interface.*
17. **Jonathan Diamond**, MSc Biology (2020 – 2022). *Chipping in: variation in functional diversity of the North American Beaver (*Castor canadensis*) during distribution range expansion.*
16. **Brayden Everett**, MSc Biology (2020). *Modeling the disease risk for Lyme disease in human populations in Quebec*
15. **Cassia Foley**, MSc Biology (2018 – 2021, BESS Fellowship and FRQNT Scholarship, co-supervision with H. Guzman STRI, Panama). *Assessing humpback whale movement patterns in a changing climate.*
14. **Jihane Benbahtane**, MSc Biology (2018 – 2021, BESS Fellowship, co-supervision with H. Valles UWI Barbados). *Parrotfish distribution and feeding behaviour in a fringing reef of Barbados.*
13. **Frederique Truchon**, MSc Biology (2018 – 2021, Gault Nature Reserve Graduate Student Award). *Finding common ground: how hikers influence white-tailed deer space-use patterns in a UNESCO biosphere reserve.*
12. **Kirsten Crandall**, MSc Biology (2016 – 2018, McGill Biology MSc Award and FRQNT Scholarship). *Effect of species interactions and biodiversity under climate change: application to emerging infectious disease.*
11. **Julia Nordlund**, MSc Biology (2015 – 2017). *Using multi-species niche modeling to assess the effect of climate warming on Quebec biodiversity.*
10. **Katherine Hebert**, MSc Biology, Concordia University (2015 – 2017, CGSM NSERC and FRQNT Scholarship, co-supervision with J.P. Lessard, Concordia). *Community structure of island mammals: the effect of abiotic and biotic factors.*
9. **Alan Garcia-Elfring**, MSc Biology (2015 – 2017). *Detecting the genetic signature of range expansion in the white-footed mouse in Southern Quebec.*
8. **Shaun Turney**, MSc Biology (2012 – 2014; CGSM NSERC Scholarship, co-supervision with A. Gonzalez). *The effect of small mammal diversity in forest fragments on the emergence of Lyme disease in Québec.*
7. **Jorge Gaitan**, MSc Biology (2012 – 2014). *The effects of parasite load and stress level on the movement and dispersal patterns of the white-footed mouse within a fragmented landscape.*
6. **Ted Daigle**, MSc Biology (2011 – 2013; CGSM NSERC Scholarship, co-supervision with J. Davies). *Genetic variation in white-footed mice in relation with range shift.*
5. **Robby Marotte**, MSc Biology (2011 – 2013; FQRNT Scholarship, co-supervision with A. Gonzalez). *Dispersal of the white-footed mouse in a fragmented landscape.*
4. **Jessica Fiset**, MSc Departement des Sciences Biologiques, Universite de Montreal (2011 – 2013; co-supervision with F.-J. Lapointe). *Phylogeography of the mouse *P. leucopus* in Québec.*

3. **Emilie Roy-Dufresne**, MSc Geography (2010 – 2013; co-supervision with G. Chmura). *Temporal evolution of the ecological niche of the white-footed mouse (*Peromyscus leucopus*) and its relation with the emergence of Lyme disease in Québec.*
2. **Rodrigo Lima**, MSc Biology (2010 – 2012; CGSM NSERC Scholarship and FQRNT Fellowship). *Morphological variation in red-backed voles (*Myodes gapperi*) in Québec and northern Labrador.*
1. **Anita Rogic**, MSc Biology (2010 – 2012; co-supervision with F.-J. Lapointe, Udm). *Genetic structure of the white-footed mouse in the context of the emergence of Lyme disease in southern Québec.*

Graduate (Master) Interns from France

As a requirement for the completion of their master degree, these students need to spend six to eight months working in a research lab on a project; they produce a written report and defend their thesis at the end of the internship.

6. **Coline Verot**, Master Biodiversity, Ecology and Evolution, Université Aix-Marseille (February – August 2020). *Morphological variation in *Microtus arvalis* on Atlantic islands of the coast of France.*
5. **Joseph Janiaud**, Master Biodiversity and Environement, Ecole Pratique des Hautes Etudes, Université Paris Sciences et Lettres (March – May 2020). *Evaluating the effect of the public traffic on the pattern of deer abundance at the Gault Nature Reserve.*
4. **Cedric Boué**, Master Ecology and Evolution, Université Paris VI (January – August 2013). *Morphological differentiation among two sympatric species of *Peromyscus* mice in Quebec.*
3. **Julie Simon**, Master Ecology and Evolution, Université Montpellier II (March – August 2013). *The spatial pattern of Lyme disease emergence in Southern Quebec.*
2. **Samir Meichai**, Master Bioinformatique, Université de Nantes (January – August 2012). *Phylogeography of the black legged tick *Ixodes scapularis* in Southern Quebec* (co-supervision with N. Ogden).
1. **Marion Chevrinais**, Master Ecology and Evolution, Université de Poitiers (April – August 2011). *Habitat characteristics of the white-footed mouse in Québec.*

Research Assistants

4. **Robby Marrotte**, Research assistant (August 2013 – 2014)
3. **Jorge Gaitan Camacho**, Laboratory coordinator Ouranos/FQRNT projects (2010 – 2013)
2. **Karine Dancose**, Project coordinator, Ouranos and FQRNT Projects (2012)
1. **Daniel Suter**, Project coordinator, Ouranos Project (2010 – 2012)

NSERC USRA Students

1. **Remi St-Gelais**, Summer 2016. Structure of the communities of small mammal hosts for Lyme disease in North America.

BSc and BA&Sc Honors students

10. **Yasemin Oral**, BIOL 479 (9 credits) Fall 2022 – Winter 2023. *Drivers of body size structure on island mammals.*
9. **Matylda Wawro**, ENVB 401-402 (12 credits), Fall 2022 – Winter 2023. *Fluctuating Asymmetry in *Castor canadensis* in Relation to Changing Climates and Habitats.*
8. **Léa Bourget**, ENVR 495 (6 credits), Summer – Fall 2022. *Biodiversity in the Caribbean: Past, Present and Future.*
7. **Kari Hollett**, BIOL 479 (9 credits), Fall 2020 – Winter 2021. *Investigating the relations between human presence and movement deer behavior at the Gault Nature Reserve.*
6. **Cassia Foley**, BIOL 479 (9 credits), Fall 2016 – Winter 2017. *Investigating the effects of climate warming on the diversity of Quebec mammals.*
5. **Remi St-Gelais**, BIOL 480 (12 credits), Fall 2016 – Winter 2017. *Morphometric analysis of skull in north-american rodents to model interspecific competition and character displacement.*
4. **Samantha Morin**, BIOL 479, Fall 2015 – Winter 2016 (9 credits). *The effects of climate and community size structure on distribution range in mammals.*
3. **Anne Malcolm**, ENVR 495, Fall 2013 – Winter 2014 (6 credits). *Incidence of Broken Tusks in narwhals (*Monodon monoceros*): functional and behavioral consequences.*
2. **Sara Prado**, ENVR 496-497, Winter 2010 – Summer 2010 (9 credits). *Variation in ocelli size across geographic barriers in *Lasius* ants from southern Québec.*
1. **Justine Alexander**, BIOL 479, Fall 2009 – Winter 2010 (9 credits). *Morphological changes and variation of rodents (*Peromyscus*) in the Monteregian sky islands of Southern Quebec.*

Undergraduate students (independent research projects)

36. **Nicole Stafiej**, BIOL 468 (6 credits), Winter 2023. *Humpback whale (*Megaptera novaeangliae*) summer migration through the Southeast Pacific ocean.*
35. **Olivier Hepler**, BIOL 466 (3 credits), Fall 2022. *Simulation of Coevolution using Cellular Automata.*
34. **Kourosh Namdar**, BIOL 466 (3 credits), Winter 2022. *Movement behaviour and activity pattern of the white-tailed deer at the Gault Nature Reserve.*
33. **Aaron Brimacombe**, BIOL 377, Winter 2020 (3 credits). *Zoonotic diseases and migratory birds distribution in Canada.*
32. **Rachel Rolland**, BIOL 466, Summer 2019 (3 credits). *Foraging behaviour in different species and ontogenetic phases of Caribbean parrotfish inhabiting coral reef in Western Barbados.*
31. **Maddie Schuster**, BIOL 466, Winter 2019 (3 credits). *Community size structure and its variation with latitude among coexisting North American small mammals.*
30. **Tess Baker**, BIOL 468, Fall 2018 - Winter 2019 (6 credits). *Modeling outbreak patterns of infectious zoonotic diseases.*
29. **Ellen Bidulka**, BIOL 466, Fall 2018 (3 credits). *Distribution pattern of the white-tailed deer at the Gault Nature Reserve.*

28. **Simona Watts**, BIOL 413, Winter 2018 (1 credits). *Patterns of emergence of infectious zoonotic diseases: implication for Lyme disease in Quebec.*
27. **Melissa Langley**, BIOL 377, Winter 2018 (3 credits). *The impact of deer overpopulation at the Gault nature Reserve.*
26. **Cindy Huang**, BIOL 377, Winter 2016 (3 credits). *The evolution of Hominids on islands.*
25. **Ryan Smith**, BIOL 466 - 467, Fall 2015 – Winter 2016 (6 credits). *Temporal change in composition and structure of mammal communities in Quebec.*
24. **Hsu Szu-Chen**, BIOL 413, Fall 2015 (1 credit). *Extant and extinct venomous mammals.*
23. **Kirsten Crandall**, BIOL 466, Fall 2015 (3 credits). *Multispecies phenotypic variation in Quebec small mammals.*
22. **Tanzina Rahanam**, BIOL 466, Summer 2015 (3 credits). *Life history traits and parasite burden in small mammals from Southern Quebec.*
21. **Klara Wildrig**, BIOL 466, Fall 2014 (3 credits). *Assessing the variation in morphology and parasite burden of white-footed mice (*Peromyscus leucopus*) undergoing range expansion in Southern Quebec.*
20. **Julia Nordlund**, BIOL 466, Winter 2014 (3 credits). *Multi-species distribution modeling under climate change: small mammals in Quebec.*
19. **Marisol Valverde**, BIOL 466, Fall 2013 (3 credits). *Fluctuating asymmetry in the femur of white-footed mouse in relation with parasite load.*
18. **Marie-Claude Lafontaine**, BIOL 396, Winter 2013 (3 credits). *The relation between parasite load and the weight of adrenal gland in small mammals.*
17. **Laurence Levesque**, BIOL 466 - 467, Fall 2012 – Winter 2013 (6 credits). *Morphological differences in the first upper molar tooth of the wood mouse (*Apodemus sylvaticus*) and the common vole (*Microtus arvalis*) across different islands of France.*
16. **Xiaolei Liu**, BIOL 466, Fall 2012 (3 credits). *The signature of post-relaxation island mammal fauna and their conservation.*
15. **Chantal Cloutier**, REDM 396, Winter 2012 (3 credits). *Testing the dilution hypothesis in the context of Lyme disease emergence in Québec.*
14. **Robby Marrotte**, REDM 396, Winter 2011 (3 credits). *Connectivity analysis on *P. leucopus* habitat patches in Monterege.*
13. **Kate Krivy**, BIOL 466, Fall 2010 (3 credits). *Morphological variation in the upper molars of the White-footed mouse *Peromyscus leucopus* in the Monteregeans*
12. **Manon Albert**, BIOL 466 - 467, Fall 2010 - Winter 2011 (6 credits). *Les chiroptères des îles de l'Océan Indien et Pacifique: suivent-ils la loi insulaire?*
11. **Jorge Gaitan Camacho**, BIOL 466, Fall 2010 (3 credits). *Mammalian community size structure and island area relationship in worldwide insular systems.*
10. **Marilyne Caponi**, NRSC 497 - 498, Fall 2010 - Winter 2011 (6 credits). *Variation in coat coloration in *Myodes gapperi* related to geographic locations.*
9. **Eve Desplats**, BIOL 466 - 467, Summer 2010 - Fall 2010 (6 credits). *Age classification using teeth in *Peromyscus leucopus* and *P. maniculatus*.*

8. **Brent Hopkins**, BIOL 466, Fall 2009 (3 credits). *Variation in coat colour of the white-footed mouse (*P. leucopus*) and the deer mouse (*P. maniculatus*) at four Monteregian Hills*
7. **Diana Ickx**, BIOL 466, Summer 2009 (3 credits). *Environmental characteristics and sampling protocol in relation to habitat use by *Peromyscus leucopus* and *P. maniculatus* in Quebec*
6. **Emilie Roy-Dufresne**, NRS 497 - 498, Fall 2008 - Winter 2009 (6 credits). *Morphological variation in the cranium of *Peromyscus leucopus* in Mont Saint-Hilaire, Quebec, in relation with habitat and food specialisation.*
5. **Judy Dumont**, BIOL 466 - 467, Fall 2008 - Winter 2009 (6 credits). *Morphological Variation and Functional Adaptation in rodents of the *Sciuridae* and *Echimyidae* families.*
4. **Helene Bovy**, BIOL 396, Winter 2007 (3 credits). *Estimating the body mass of the giant extinct rodent *Phoberomys*.*
3. **Kanako Hasegawa**, REDM 396, Summer 2007 (3 credits). *Microevolution of *Peromyscus maniculatus* and *Peromyscus leucopus* on Mont Saint Hilaire, Quebec*
2. **Rachel Verkade**, NRS 497 - 498, Fall 2007 - Winter 2008 (6 credits). *Island area and body size in mammals.*
1. **Mehrnoush Shaffei**, BIOL 468, Winter 2008 (6 credits). *Morphological Differences in Incisor Size of Murid Skulls of *Apodomus sylvaticus* on Various Islands off Coast of France*

Work-Study students

Maria Pescaru (Winter 2023), **Cheerson Sun** (Fall 2022), **Lea Bourget** (Fall 2022), **Josey Quigley** (Summer - Fall 2022), **Szu-Chen Hsu** (Fall 2015-Winter 2016), **Shan Wang** (Fall 2015-Winter 2016), **Judy Deng** (Fall 2015), **Joshua Baik** (Winter 2015), **Megan Shaw** (Fall 2013 – Summer 2014), **Samantha Morin** (Fall 2013 – Fall 2014), **Shannon Duffy** (Fall 2013 – Winter 2014), **Noreen Mohsin** (Fall 2013 – Fall 2014), **Julia Nordlund** (Winter 2013 – Winter 2014), **Krishanth Manokaran** (Fall 2012 – Summer 2013), **Marisol Valverde** (Fall 2012 – Summer 2013), **Miranda Shi** (Fall 2012 – Winter 2013), **Brian Park** (Fall 2012 – Winter 2013), **Xiaolei Liu** (Winter - Summer 2012, Winter 2013), **Stephani Arulthas** (Winter - Summer 2012), **Ji (Jeff) Xiang** (Fall 2011 - Winter 2012), **Heather McIntosh** (Summer 2011), **Jeongyoon Moon** (Winter 2011), **Mitran Mehta** (Winter 2011), **Chloe Makepeace** (Fall 2010 - Winter 2011), **Jorge Gaitan-Camacho** (Winter 2010), **Yolanda Huang** (Winter 2010), **Mira Kelada** (Fall 2009 – Winter 2010), **Amelia Gagnon** (Fall 2009 - Winter 2010, Fall 2010), **Jessica Tang** (Fall 2008 - Winter 2009), **Paoyun Tang** (Fall 2008 - Winter 2009, Fall 2009 - Winter 2010, Fall 2010 - Winter 2011), **Kanako Hasegawa** (Fall 2007 - Winter 2008).

Undergraduate students (other)

REDM 400 research project supervision:

- Justin Cuffaro & Sarah Thivierge**, Winter 2018. *Designing a mineralogy exhibit at the Gault Nature Reserve.*
- Megan Couture & Danielle Bohonos**, Winter 2018. *The Natural History at the Gault Nature Reserve: project for an exhibit.*
- Anabel Heleb & Rasika Baraskar**, Winter 2015. *Finding the distinction between *Sorex cinereus* (Masked shrew) and *Sorex fumeus* (Smoky shrew) based on skull and tooth characters.*

Jasmine Aslan, Winter 2010. *Comparative diet analysis of the snowy owl *Bubo scandiacus* in Québec.*

Brent Hopkins, Winter 2009. *Design of a protocol for coat color quantification in small mammals from museum collections.*

Irina Rozin & Elan Spitzberg, Winter 2009. *Skeletal reconstruction of a specimen of red fox.*

Magali Gregoire, Winter 2009. *Evaluation of the fossil collection from the Burgess Shale at the Redpath Museum.*

Adam Levine & Stefanie Kibsey, Winter 2009. *Proposed redesigning of the ten Quebec Biodiversity Cases in the exhibit of the Redpath Museum.*

Tania Aldred, Winter 2007: undergraduate project on the Redpath Museum collections databases.

Undergraduate Volunteers: Supervision of the work of over 40 volunteers since 2008 (students working either in the lab for specimens preparation or as field assistants in the summer).

CEGEP Interns: Supervision and training of CEGEP students from Vanier College working on the Redpath Museum collections (6 weeks each): Alexandra Fira (Winter 2009), Eric Pare (Winter 2008), Emanuele Diadelfo (Spring 2007), Amanda Hamelin (Winter 2007), James McCullough (Winter 2006).

Teaching

BIOL 363 *Mammalian Evolution* (Winter 2021 – offered remotely): course coordinator and instructor (3 credits, capped at 35 students, 2 hours of lecture and 3 hours of laboratory per week for 13 weeks, contribution of 100%)

BIOL 463 *Mammalian Evolution* (Winter 2010, 2011, 2013 and 2018): course coordinator and instructor (3 credits, capped at 35 students, 2 hours of lecture and 3 hours of laboratory per week for 13 weeks, contribution of 100%)

REDM 400 *Science and Museums* (Winter 2008 to 2011, Winter 2013-2015): co-instructor (3 credits, capped at 30 students, 2 hours of lecture and 3 hours of laboratory per week for 13 weeks, contribution of 25%); (Winter 2018, 2021, 2022): co-instructor (2 lectures)

BIOL 240 *Monteregian Flora* (Summer 2017-2018, 2020 and 2022): Course coordinator (the course was cancelled in 2020).

BIOL 645 *QCBS Biodiversity Science Intensive Course* (Fall 2013 and 2017, Winter 2021): co-instructor (one module)

BIOL 206 *Methods in Biology* (Fall 2021): co-instructor (3 credits, 107 students, one module, contribution 15%)

BIOL 305 *Animal Diversity* (Winter 2007 to 2011): co-instructor (3 credits, 25%); (Winter 2013 to 2018): course coordinator and co-instructor (3 credits, capped at 90 students, 2 hours of lecture and 3 hours of laboratory per week for 13 weeks, contribution of 25%)

BIOL 352 *Vertebrate Evolution* (Winter 2016): course coordinator and co-instructor (3 credits, capped at 30 students, 2 hours of lectures and 3 hours of laboratory per week for 13 weeks, contribution of 50%)

BIO 6790 *Parasitisme* (course offered at Université de Montréal, Winter 2015 and 2016): two lectures, 25 students

BIOL 570 (Fall 2015): *Advanced Seminar in Evolution* (the topic was Climate Change Biology): course coordinator and instructor (3 credits, 1 student, 1:30 hours meeting twice a week, contribution of 100%)

BIOL 331 *Ecology and Behaviour Field Course* (Fall 2009 and 2010): co-instructor (3 credits, capped at 15 students, ~ 10 hours a day for two weeks, contribution of 33%)

BIOL 111 *Organismal Biology* (Fall 2007 and 2008): co-instructor (one laboratory)

Services

Graduate student supervisory committee (other than my own students)

12. Miranda Theriot, MSc, Department of Biology and Wildlife, University of Alaska Fairbanks, 2018 – 2021
11. Dat Nguyen, MSc, Department of Biology, 2018 – 2020
10. Joshua Persi, MSc, Department of Biology, 2018 – 2020
9. Kendall Mills, PhD, Department of Biology and Wildlife, University of Alaska Fairbanks, 2017 – present
8. Tristan Juette, PhD, UQAM, 2014 – 2019
7. Samir Meichai, PhD, Université de Montréal, 2013 – 2019
6. Max Farrell, PhD, Department of Biology, McGill University, 2013 – 2018
5. Xavier Giroux-Bougard, MSc, Natural Resource Sciences, McGill University, 2013 – 2014
4. Jeremy Brammer, PhD, Natural Resource Sciences, McGill University, 2010 – 2012
3. Rui Tahara, PhD Department of Biology, McGill University, 2010 – 2016
2. Morgan Boenke, MSc Department of Biology, McGill University, 2008-2011
1. Kristen Whitbeck, PhD Department of Plant Science, McGill University, 2008

Undergraduate student supervisory committee (other than my own students): honours students

3. Xiaolei Liu, Honours Biology McGill University, 2013
2. Etienne Fortier-Dubois, Honours Biology McGill University, 2013
1. Trina Du, Honours Biology McGill University, 2010

Thesis examiner

11. Julie Lewis, PhD Dept. Chemistry and Biochemistry, Moncton University (2023)
10. Andrea Brown, MSc Department of Biology McGill University, examiner (2022)
9. Alexandra McCallum, MSc Department of Biology McGill University, examiner (2022)
8. Paul Mayrand, MSc Département des Sciences Biologiques, Université de Montréal, external examiner (2017)
7. Hermine Alexandre, PhD Département des Sciences Biologiques, Université de Montréal, external examiner (2016)

6. Rachel A. Correll, PhD School of Biological Sciences, Flinders University, Australia, external examiner (2015)
5. Jessica Middleton, MSc Department of Biology McGill University, examiner (2012)
4. Elad Ben-Ezra, MSc NRS McGill University, external examiner (2009)
3. Maria DeBoef, PhD Department of Biology, McGill University, internal examiner (2009)
2. Nadia Frobisch, PhD Department of Biology, McGill University, internal examiner (2008)
1. Erin Maxwell, PhD Department of Biology, McGill University, internal examiner (2008)

PhD defense committee member

15. Miranda Theriot, MSc, Department of Biology and Wildlife, University Alaska Fairbanks, (2021)
14. Allyson Menzies, PhD department of Natural Resource Sciences, McGill University (2020)
13. Tiffany Chin, PhD Department of Biology, McGill University (2018)
12. Juntao Hu, PhD Department of Biology McGill University (2018)
11. David O'Connor, PhD Department of Biology, McGill University (2017)
10. Victor Frankel, PhD Department of Biology, McGill University (2017)
9. Hermine Alexandre, PhD, Département des Sciences Biologiques, U. de Montréal (2016)
8. Monica Granados, PhD Department of Biology, McGill University (2016)
7. Ben Wilhelm, PhD Department of Biology, McGill University (2016)
6. Johanna Bradie, PhD Department of Biology, McGill University (2015)
5. Eric Pedersen, PhD Department of Biology, McGill University (2015)
4. Marie-Julie Fave, PhD Department of Biology, McGill University (2013)
3. Sarah Overington, PhD Department of Biology, McGill University (2011)
2. Audrey Heppleston, PhD Department of Biology, McGill University (2010)
1. Erika Crispo, PhD Department of Biology, McGill University (2010)

Qualifying / Comprehensive examination committee member

9. Jessica Ford, PhD, Department of Biology, McGill University (2020)
8. Tristan Juette, PhD, Département des Sciences Biologiques UQAM (2016)
7. Laura Thuly, PhD, Department of Biology, McGill University (2014)
6. Max Farrell, PhD, Department of Biology, McGill University (2014)
5. Katharine Yagi, PhD Department of Natural Resource Sciences (2013)
4. Louise-Marie Meunier, PhD, Department of Earth and Planetary Sciences, McGill (2013)
3. Luke Harrison, PhD, Department of Biology, McGill University (2010)
2. Emily Bamforth, PhD, Department of Biology, McGill University (2010)
1. Rui Tahara, PhD, Department of Biology, McGill University (2010 and 2011)

Reviewer for the QCBS (Quebec Center for Biodiversity Sciences) Student Excellence Awards

Review and assessment of 10 applications (2020)

Committees at the Redpath Museum

Redpath Museum EDI Committee, member (2020 – present)

Academic Reappointment and Tenure Committee (2015 - present)

Redpath Museum/Biology department relations committee, member (2013 - 2014)

Collection committee, chair (2006 - 2010) and member (2010 - present)

Safety committee, member (2006 - present)

Exhibit committee, member (2006 - 2007)

Committee for the teaching lab renovations, member (2009 - 2010)

Committees at the Department of Biology

Member of the selection committee for a Course Coordinator position (2022)

Member of the search committee for the Med-P Faculty Lecturer position at UQO (2020)

Co-organizer of the Conservation Ecology Evolution and Behavior group (CEEB) retreat at Mont Saint-Hilaire (February 2009 & December 2009)

CEEB Seed-grant committee (2010).

Committees at the Faculty of Science, McGill University

Member of the Board of Directors, Bellairs Research Institute (2019 - present)

Chair of the Cyclical Review Committee for Bellairs Research Institute (2017)

Student Standing Committee (2010 - 2011)

Inclusive Teaching Initiative, Faculty of Science

I was accepted to participate in this working group to improve EDI in the curriculum at McGill (2022-2023)

Committees at McGill University

Committee to Address Anti-Black Racism at the Bellairs Research Institute (AABR@Bellairs) - (2021-2022)

Senate Pool – University Tenure Committee, McGill University (2020-2023)

Facility Animal Care Committee, McGill University (2019-present)

Advisory Committee for the possible reappointment of the Dean, Faculty of Science (2019)

Sustainability Education Fellows Program

I am taking part in the Sustainability Education Fellows Program, a cross campus initiative to bring sustainability in the curriculum at McGill University (2022-2023)

Other committees

Member of the review committee for the Natural History Museum and Botanical Garden at Geneva for the Swiss Academy of Science (2018)

Co-chair of the organizing committee for the 16th Canadian Paleontology Conference, Redpath Museum, McGill University, 10-16 October 2006, 60 participants from Canada and abroad.

Pro-Dean for PhD defense at McGill

Department of Geography (2015)

Department of Psychology (2014)

Department of Pharmacology and Therapeutics (2013)

Journal Editorial Board

Editor for *Frontiers in Mammal Science* (2022-present)

Editor for *Frontiers in Public Health* (2022-present)

Manuscript Reviewer (total: 83)

Acta Theriologica (1), *The American Naturalist* (3), *American Midland Naturalist* (1), *Applied Geography* (1), *Biological Journal of the Linnean Society* (3), *BMC Biology* (1), *BMC Evolutionary Biology* (3), *Canadian Journal of Zoology* (2), *Ecography* (3), *Ecological Monographs* (1), *Ecology Letters* (2), *Ecology and Evolution* (2), *Evolution* (4), *Evolutionary Applications* (1), *Evolutionary*

Ecology (1), *Frontiers in Public Health* (1), *Geobios* (1), *Global Ecology and Biogeography* (5), *Journal of Biogeography* (9), *Journal of Evolutionary Biology* (2), *Journal of Heredity* (1), *Journal of Mammalogy* (3), *Journal of Zoology* (3), *Journal of Vertebrate Paleontology* (1), *Journal of zoological Systematics and Evolutionary Research* (1), *Landscape Ecology* (1), *Mammalia* (2), *Mammalian Biology* (1), *Journal of Zoology* (3), *Journal of Zoological Systematics and Evolutionary Research* (1), *Landscape Ecology* (1), *Mammalia* (2), *Mammalian Biology* (1), *Methods in Ecology and Evolution* (1), *Molecular Ecology* (2), *North Eastern Naturalist* (1), *Oecologia* (1), *Oikos* (3), *Palaios* (1), *PNAS* (3), *Polar Biology* (1), *PLoS ONE* (2), *Proc. R. Soc. B.* (3), *Scientific Reports (Nature)* (2), *Zoological Sciences* (1), *Zoology* (2) and for the edited book “Faunal and floral migrations and evolution in SE Asia-Australasia” (Metcalfe et al. eds).

Review of a Book Proposal

John Hopkins University Press (“The Mammals of Luzon Island, Philippines: A Natural History” by LR Heaney, S Balete and EA Rickart), 2012.

Review of Research Grant Proposals

10. FRQNT Établissement de la relève professorale, comité Écologie/Biologie des populations (2023)

9. Deutsche Forschungsgemeinschaft - German Research Foundation (2022)
8. NSERC Discovery Grant (2020)
7. Norway Research Council (2017)
6. French Polar Institute (2015)
5. Canada Research Chairs (2015)
4. Austrian Science Fund (2015)
3. Agence National de la Recherche, France (2014)
2. NSERC Strategic Program (2009)
1. Netherlands Organisation for Scientific research, Earth and Life Science (2007)

Animal Use Protocol Reviewer (external to McGill)

2. Review for CPA-Faune (Comité de protection des animaux), Ministère des Forêts, de la Faune et des Habitats, Quebec (2020)
1. Reviews for the Animal Care Committee of the Laurentian University (2014)

Award Committees

Jury member for the Prix du Quebec Scientifique Marie-Victorin (2015)
Paleontology Division Pikaia Award Committee, Geological Association of Canada (2008)

Outreach

Presentation at:

12. **Sun & Science** (McGill Faculty of Science), June 2020
11. **Cutting Edge Science lecture series**, September 2017
10. **“Ramène ta Science”**, event in videoconference with France, August 2016
9. **“Snappy Science”** (McGill Faculty of Science for the Canada Wide Science Fair), May 2016
8. **“Soup & Science”** (McGill Faculty of Science), January 2016
7. **“Soup & Science”** (McGill Faculty of Science), September 2012
6. **STARS** talk series of the Faculty of Science, December 2010
5. **McGill Science Undergraduate Students**, “How to get involved in research”, Nov. 2010
4. **Darwin Day**, Redpath Museum talk on “What Darwin did not know”, February 2009
3. **“Soup & Science”** (McGill Faculty of Science), September 2008

2. “**Book and Beakers**” (McGill Arts/Science research event), April 2008
1. “**Freaky Friday**” talk on “The reality of Rodents”, December 2007

Montreal Museum day (May 2006, 2007, 2008): owl pellets dissection activity (60-80 participants each year).

Judge for the Faculty of Science **Undergraduate Research Conference** (2006 and 2009)

Media Coverage

Les Débrouillards, Interview on the topic of the evolution on islands, March, 2023.

McGill Tribune, Interview on the topic of ticks and Lyme disease, published February 7th, 2023.

The New York Times, Interview on the topic of giant fossil rodents of South America, article published June 14th, 2022.

CTV News Atlantic, Interview on the topic of the black-legged tick expansion in Québec, Published June 1st, 2022

Global News, Interview on the topic of ticks and Lyme disease, aired on May 17th, 2022

Global News, Interview on the topic of morphological change in animals with climate warming, aired on Sept. 12th, 2021; <https://globalnews.ca/video/8185218/animals-shape-shifting-due-to-climate-change/>

CBC Radio, Interview on the topic of Lyme disease for the show **Quirks & Quarks**, aired June 19th, 2020

Agence Science-Press, Interview for an article published in the magazine « La terre de chez nous », Feb. 2020

CBC Radio, Live interview for the morning show **Daybreak**, July 16th, 2018

Le Devoir, « Deux fois trop de cerfs sur le mont Saint-Hilaire », article on our research project on white-tailed deer at Gault, 11th July 2018

TVA-LCN, live interview and filming for **TVA Nouvelles** on the topic of the long-horned tick, aired August 7th, 2018

Le Journal de Montréal, « La tique tueuse asiatique se répand à nos portes », August 7th, 2018

CBC Daybreak, Live interview on the topic of white-tailed deer abundance at the Gault Nature Reserve, July 2018

Le Devoir, « Deux fois trop de cerfs sur le mont Saint-Hilaire », July 2018

Nature Sauvage, « Des souris et des hommes », May 2018

Radio Canada, Les Années Lumières: Table ronde sur les changements climatiques : « souris, écosystèmes et pergélisol », December 2017

Interview for the **Wildlife Society**, December 2017

McGill Reporter, “McGill’s third campus takes big step”, November 2017

CJAD 800 Radio, Live interview for the Leslie Roberts Show, November 2017

98.5 Montreal, Live Interview on Lyme disease with Isabelle Maréchal.

McGill Reporter, “Sign of the times: Morphing mice adapt to changing climate”, November 2017

CBC.ca, “Of mice and men? Change in rodents linked to climate change, McGill research shows”, November 2017

Montreal Gazette, “Changes in habitat and skull shape of two mouse species are signs of climate change”, November 2017

Le Journal de Montreal, “La métamorphose d’une inquiétante souris”, November 2017

McGill Newsroom, “As climate warms, mice morph”, November 2017

La Presse, “Réchauffement: les souris québécoises se transforment”, November 2017

TV5 MONDE, “Avec le changement climatique, la souris mute et remonte au Nord”, Nov 2017

TVA Nouvelles, “Avec le changement climatique, la souris mute et remonte au Nord”, Nov 2017

Le Devoir, “Un lac universitaire au coeur de la Réserve Naturelle Gault”, June 2017
L’Oeil Regional, “Une nouvelle directrice a la Reserve Naturelle Gault”, March 2017
Canal Vie “Lyme, quand la maladie nous mord”, aired December 2016.
 Interview for the web-radio “L’Oeuf ou la Poule”, aired 19 October 2015.
CBC News Montreal, aired June 16, 2015.
Le Journal de Montreal, “Attention aux tiques cet été!”, 13 June 2015
Journal de Québec, May 2015.
MétéoMédia Montreal, May 2015.
 Interview and two-days of filming for the show **Découvertes** on **Radio Canada**, aired Oct. 2014.
 Interview for the National TV News (**Telejournal – Radio Canada**), aired in August 2014.
Global News, aired in August 2014.
Journal de Montréal, article published in July 2014.
Québec Sciences, article published in May 2014.
Le Devoir, article published in May 2014.
CBC Canada, interview for the TV show “**The Nature of Things with David Suzuki (Ticked off: the mystery of Lyme disease)**”, aired October 2013
RDI, Interview for the Radio Show “**Desautels**”, June 2013
RDI, Interview for the TV show “**Découvertes**”, aired March 2013
Radio Canada, Les Années Lumières: “Le loup, le renard et le climat”, November 2012
Le Code Chastenay for **TéléQuébec**, November 2012
Radio CKUT 90.3 FM, Free Radicals, February 2009
Radio Canada, Les Années Lumières: “Un Dimanche avec Darwin”, February 2009
Le Code Chastenay (Web-interview) for **TéléQuébec** Web site on the subject of adaptation to climate change in Quebec mammals, November 2008
Canal Evasion, November 2008
Science et Vie, on the subject of extinct giant rodents, October 2008
 My work on an extinct giant rodent was presented on the web site **BBC News**, 20 May 2008, (Biggest rodent 'shrinks in size')
The Gazette on the subject of melanism in squirrels, May 2008
Le Code Chastenay, broadcasted on the National TV channel **TéléQuébec**, March 2008
History Channel, March 2008
Tunza magazine, Special issue on islands, vol 5 (4), January 2008
Découvrir (“Eléphants nains et lézards géants”), vol. 28 (1) Jan-Feb 2007
Les Débrouillards, February 2007 Issue (“Nains et géants des îles”)
New Scientist, « Island creatures great and small », *New Scientist* (2569), p.17, September 2006
CJAD 800 Radio, September 2006
CBC Radio, September 2006.