

# JALENE M. LAMONTAGNE

Professor  
Department of Biological Sciences  
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## EDUCATION

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- 2007 Ph.D., Environmental Biology & Ecology, University of Alberta  
Dissertation: Spatial and temporal variability in white spruce cone production: Individual and population responses of North American red squirrels.
- 2000 M.Sc., Conservation Ecology, University of Calgary  
Thesis: Use of migratory stopover areas by trumpeter swans in southern Alberta.
- 1998 B.Sc., Ecology, Minor: Earth Sciences, University of Calgary  
Thesis: Maternal effects in *Daphnia pulex*: An investigation of offspring performance in varying food environments.

## PROFESSIONAL EMPLOYMENT / APPOINTMENTS

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- 2022-present Professor, Department of Biological Sciences, DePaul University
- 2024-present Visiting Scholar, Dartmouth College
- 2022-present Research Affiliate, The Morton Arboretum
- 2016-present Adjunct Scientist, Urban Wildlife Institute, Lincoln Park Zoo
- 2018-2022 Associate Professor, Department of Biological Sciences, DePaul University
- 2015-2019 Instructor, Rosalind Franklin University of Medicine & Science
- 2011-2018 Assistant Professor, Department of Biological Sciences, DePaul University
- 2010-2011 Visiting Scientist & Sessional Instructor, Department of Biological Sciences, University of Calgary
- 2009-2010 Assistant Professor, Integrated Sciences, Asian University for Women, Bangladesh
- 2007-2009 Alberta Ingenuity Postdoctoral Fellow, Department of Biological Sciences, University of Calgary
- 2008 Sessional Instructor, Department of Biological Sciences, University of Calgary
- 2000-2001 Research Associate, Department of Biological Sciences, University of Calgary

## FELLOWSHIPS, AWARDS & RECOGNITION

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- 2022 Illinois Science & Technology Coalition list of "Researchers to Know 2022" (1 of 3 in 'Climate Change'), Illinois Science & Technology Coalition
- 2021 Manierre Award for Research, Huron Mountain Wildlife Foundation
- 2021 Mid-Career Excellence in Research Award, DePaul University
- 2021 Excellence in Teaching Award Nominee, DePaul University
- 2020 Publication included in 'Best of 2020: Trends in Ecology & Evolution' (1 of 17)
- 2019 Mentor of the Year Nominee, College of Science & Health, DePaul University
- 2019 Supervisor of the Year Nominee, DePaul University
- 2007-2009 Alberta Ingenuity Postdoctoral Fellowship (1 of 10), Government of Alberta
- 2005, 2006 Letter of Commendation for Teaching, Department of Biological Sciences, University of Alberta
- 2005 Bill Samuel Graduate Student Service Award, Department of Biological Sciences, University of Alberta
- 2004-2006 Izaak Walton Killam Memorial Scholarship (1 of 25), University of Alberta
- 2004 Dorothy J. Killam Memorial Graduate Prize (1 of 4; Top award for Life & Health Sciences), University of Alberta
- 2002-2004 Walter H. Johns Graduate Fellowship, University of Alberta

2002-2004	Doctoral Fellowship, Natural Sciences and Engineering Research Council of Canada (NSERC), Government of Canada
2001-2002	Graduate Intern Tuition Supplement, University of Alberta
2001-2002	Faculty of Science GTA Scholarship, University of Alberta
2000	Ellis Bird Farm Ltd. Graduate Scholarship, University of Calgary
1998	Alan Master's Award for Excellence in Undergraduate Ecology Research (Top award), Department of Biological Science, University of Calgary

## RESEARCH GRANTS

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2022-2025	National Science Foundation, "Mid-Career Advancement (MCA): New approaches to studying mast-seeding dynamics" (PI; <u>\$331,912 USD</u> )
2022-2024	Department of Energy, Research Development and Partnership Pilot (RDPP), "Developing plans and partnerships for incorporating tree reproduction to understand Earth system change" (PI; <u>\$145,254 USD</u> )
2019-2024	National Science Foundation, "Collaborative Proposal: Macrosystems Research Award (MRA): Identifying the role of climatic dipoles on plant and animal populations at continental scales" (PI: <u>\$351,850 USD</u> ; Total award: <u>\$914,023 USD</u> )
2021-2024	National Science Foundation, Long-term Network Office & National Center for Ecological Analysis and Synthesis - Long-Term Ecological Research (LTER) Synthesis Working Group. "Environmental drivers of plant reproduction" (PI; <u>\$109,455 USD</u> )
2012-2024	University Council and College Grants, DePaul University (PI; multiple grants; <u>\$214,107 USD</u> )
2022-2023	National Science Foundation, Research Experience for Undergraduates (REU) Supplement. "Collaborative Proposal: MRA: Identifying the role of climatic dipoles on plant and animal populations at continental scales" (PI; <u>\$10,399</u> )
2017-2022	National Science Foundation. "EAGER: Individual Variation and Mast Seeding." (PI; <u>\$200,000 USD</u> )
2020-2021	National Science Foundation. Research Experience for Undergraduates (REU) Supplement. "EAGER: Individual Variation and Mast Seeding" (PI; <u>\$8,772 USD</u> )
2019-2020	National Science Foundation. Research Experience for Undergraduates (REU) Supplement. "EAGER: Individual Variation and Mast Seeding." (PI; <u>\$8,152 USD</u> )
2014-2019	USDA McIntire-Stennis program. "Detecting the signal of synchrony: Mast seeding of white spruce ( <i>Picea glauca</i> ) and its influence on avian irruptions." (Project collaborator; PI: B. Zuckerberg, UW-Madison; <u>\$144,670 USD</u> )
2012-2017	Huron Mountain Wildlife Foundation, "Mast-seeding dynamics in the southern range of a boreal forest species", (PI; 6 awards; Total funding: <u>\$12,748 USD</u> )
2010	Takahashi Foundation (Japan) Research Grant. "Avian diversity in urban habitats of south Asia." (PI; <u>\$10,000 USD</u> )
2007-2009	Alberta Ingenuity Postdoctoral Research Grant, Alberta Ingenuity Fund, Government of Alberta. "Effects of dynamic variation in food resources on individual life-histories & population cycles." (PI; <u>\$96,000 CAD</u> salary + <u>\$7,000 CAD</u> research costs)
2002-2005	Northern Scientific Training Program Research Grant, Department of Indian Affairs and Northern Development, Government of Canada. "Linking individual life-histories, spatial patterns, and population dynamics in small mammals." (PI; <u>\$8,600 CAD</u> )
2002-2004	Circumpolar / Boreal Alberta Research Grant, Canadian Circumpolar Institute, University of Alberta. "Linking individual life-histories, spatial patterns, and population dynamics in small mammals." (PI; <u>\$2,000 CAD</u> )
1999	Alberta Challenge Grants in Biodiversity, Alberta Conservation Association. "Trumpeter swan habitat selection during migration." (PI; <u>\$7,680 CAD</u> )

## PUBLICATIONS

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<sup>G</sup> = graduate student co-author <sup>U</sup> = undergraduate student co-author under my supervision

### Refereed journal articles

- 2024 Donnelly, A., **J.M. LaMontagne** et al. (30 authors). Fostering effective and sustainable scientific collaboration and knowledge exchange: Workshop-based approach to establish a NEON Domain-specific user group. International Journal of Biometeorology. *In press*.
- 2024 Fidino, M., ..., **J.M. LaMontagne**, ... S. Magle. (49 authors) Gentrification drives patterns of alpha and beta diversity in cities. Proceedings of the National Academy of Sciences. *In press*.
- 2024 Angeoletto, F., ..., **J.M. LaMontagne** et al. (27 authors) GLUEing the world: the GLobal Urban Evolution project and its importance to urban biodiversity conservation. Ecology of Tropical Cities: Natural and Social Sciences Applied to the Conservation of Urban Biodiversity. Springer Press. *In press*.
- 2024 Yu, F., M. Zhang, Y. Wang, **J.M. LaMontagne**, X. Yi. Contrasting effects of frugivore assemblages and phylogeny on global variation in fruit length and width. Global Ecology & Biogeography 33: 215-226. [Link](#)
- 2023 <sup>G</sup>Hohl, D., T. <sup>G</sup>Stoycheva, R.J. Kilgour, E.C. Anderson, **J.M. LaMontagne**. 2023. Changes over time in tree cavity availability across urban habitats. Urban Forestry & Urban Greening: 127926. [Link](#)
- 2023 Qiu, T., ..., **J.M. LaMontagne**, ..., J.S. Clark. (95 authors) 2023. Masting is uncommon in trees that depend on mutualist dispersers in the context of global climate and fertility gradients. Nature Plants 9: 1044–1056. [Link](#)
- 2023 Ochoa-Hueso, R., ..., **J.M. LaMontagne**, ..., E. Bremer (76 authors). 2023. The bioavailability and coupling of macro and micronutrients across global topsoils is driven by environmental context and atomic properties, but is altered by global change. Global Biogeochemical Cycles 37: e2022GB007680. [Link](#)
- 2023 Widick, I.V., M.A. Young, **J.M. LaMontagne**, C. Strong, B. Zuckerberg. 2023. Poleward shifts and altered periodicity in boreal bird irruptions over six decades. Journal of Animal Ecology 92: 1089-1101. [Link](#)
- 2023 Bogdziewicz, M., ..., **J.M. LaMontagne**, ..., J. Clark (95 authors). 2023. Linking seed size and number to trait syndromes in trees. Global Ecology & Biogeography 32: 683-694. [Link](#)
- 2023 Koenig, W.D., A.M. Liebhold, **J.M. LaMontagne**, I.S. Pearse. 2023. Effect of periodical cicada emergences on acorn production. The American Naturalist 201: 755-762. [Link](#)
- 2022 Li, D., S. Record, E. Sokol, N. Robinson, M. Bitters, M.Y. Chen, A. Chung, M. Helmus, R. Jaimes, L. Jansen, M. Jarzyna, M.G. Just, **J.M. LaMontagne**, B. Melbourne, W. Moss, K. Norman, S. Parker, N. Robinson, B. Seyenasrollah, C. Smith, S. Spaulding, T. Surasinghe, S. Thomsen, & P. Zarnetske. 2022. Standardized NEON organismal data for biodiversity research. Ecosphere 13: e4141. [Link](#)
- 2022 Journé, V., ... **J.M. LaMontagne**, ..., J.S. Clark (103 authors). 2022. Globally, tree fecundity exceeds productivity gradients. Ecology Letters 25: 1471-1482. [Link](#)
- 2022 Qiu, T., ..., **J.M. LaMontagne**, ..., J.S. Clark. (103 authors) 2022. Limits to reproduction and seed size-number trade-offs that shape forest dominance and future recovery. Nature Communications 13: 2381. [Link](#)
- 2022 Jarzyna, M., K. Norman, **J.M. LaMontagne**, M. Helmus, L. Jansen, D. Li, B. Melbourne, S. Parker, S. Record, N. Robinson, E. Sokol, S. Spaulding, S. Thomsen, P. Zarnetske, and T. Surasinghe. 2022. Community stability is related to animal diversity change. Ecosphere 13: e3970. [Link](#)

- 2022 Santangelo, J.S., ..., **J.M. LaMontagne**, ..., M.T.J. Johnson (288 authors). 2022. Global urbanization drives adaptation in the plant white clover. *Science* 375: 1275-1281. [Link](#)
- 2022 Hackett-Pain, A., J. Foest, I.S. Pearse, **J.M. LaMontagne**, ..., J. <sup>U</sup>Barton, A. <sup>G</sup>Leeper, M. <sup>U</sup>London, ... D. Ascoli (75 total authors). 2022. MASTREE+: time-series of plant reproductive effort from six continents. *Global Change Biology* 28: 3066-3082. [Link](#)
- 2022 <sup>U</sup>Corona, C., A.C. <sup>G</sup>Leeper, and **J.M. LaMontagne**. 2022. Differential defoliation and mortality of white spruce and balsam fir by Eastern spruce budworm defoliation. *Forest Ecology and Management* 508: 120042. [Link](#)
- 2022 Sharma, S., ... **J.M. LaMontagne**, ..., J.S. Clark (45 authors). 2022. North American tree migration paced by climate in the West, lagging in the East. *Proceedings of the National Academy of Sciences* 119: e2116691118. [Link](#)
- 2021 Boyle, K.A., **J.M. LaMontagne**, I.D. Phillips, J.R. Milanovich, & J.S. Bystriansky. 2021. Physiological adaptations of grey tiger salamander larvae (*Ambystoma tigrinum diaboli*) inhabiting saline wetlands. *Herpetological Conservation and Biology* 16: 704–714. [Link](#)
- 2021 Nagy\*, R.C., J.K. Balch\*, ..., **J.M. LaMontagne**, et al. (119 authors; most alphabetical). 2021. Harnessing the NEON data revolution to advance open environmental science with a diverse, inclusive, and data-capable community. *Ecosphere* 12: e03833. \*co-first authors [Link](#)
- 2021 Cannon, C.H., ..., **J.M. LaMontagne**, ..., M. Spenko (35 authors). Extending our scientific reach in arboreal ecosystems for research and management. *Frontiers in Forestry and Global Change* 4: 712165. [Link](#)
- 2021 **LaMontagne, J.M.**, M.D. Redmond, A.P. Wion, and D.F. Greene. 2021. An assessment of temporal variability in mast seeding of North American Pinaceae. *Philosophical Transactions of the Royal Society B* 376: 20200373. [Link](#)
- 2021 <sup>G</sup>Leeper, A.C., and **J.M. LaMontagne**. 2021. Cone characteristics and insect predation across years in mast seeding white spruce. *Canadian Journal of Forest Research* 51: 1550-1557. [Link](#)
- 2021 Qiu, T., ..., **J. M. LaMontagne**, ..., J.S. Clark (61 authors). 2021. Is there tree senescence? The fecundity evidence. *Proceedings of the National Academy of Sciences* 118: e2106130118. [Link](#)
- 2021 Clark, J., ..., **J.M. LaMontagne**, et al. (63 authors; alphabetical after first author). 2021. Continent-wide tree fecundity driven by indirect climate effects. *Nature Communications* 12: 1242. [Link](#)
- 2021 Garcia, M. B. Zuckerberg, **J.M. LaMontagne**, and P.A. Townsend. 2021. Landsat-based detection of mast seeding in white spruce (*Picea glauca*) forests. *Remote Sensing of Environment* 254: 112278. [Link](#)
- 2020 <sup>G</sup>Leeper, A.C., B.A. Lawrence, and **J.M. LaMontagne**. 2020. Plant-available soil nutrients have a limited influence on cone production patterns of individual white spruce trees. *Oecologia* 194: 101–111. [Link](#)
- 2020 <sup>U</sup>Barton, J.H., K. <sup>G</sup>Morris, D. Meritt, S. Magle, and **J.M. LaMontagne**. 2020. Does urbanization influence population trends of European Starlings and their relationships with cavity-nesting birds? *Acta Oecologica* 108: 103636. [Link](#)
- 2020 **LaMontagne, J.M.** 2020. Terrestrial Ecology: Natural Selection for Mast Seeding. *Current Biology* 30: R996-R998. [Link](#)
- 2020 Fernández-Martínez, M., J. Sardans, F. Sayol, **J.M. LaMontagne**, M. Bogdziewicz, A. Collalti, A. Hackett-Pain, G. Vacchiano, J.M. Espelta, J. Peñuelas, I.A. Janssens. 2020. Reply to: Nutrient scarcity cannot cause mast seeding. *Nature Plants* 6: 763–765. [Link](#)
- 2020 Pearse, I.S., **J.M. LaMontagne**, M. <sup>U</sup>London, A.L. Hipp, and W.D. Koenig. 2020. Biogeography and phylogeny of masting: Do global patterns fit functional hypotheses? *New Phytologist* 227: 1557-1567. [Link](#)

- 2020 **LaMontagne, J.M.**, I.S. Pearse, D. Greene, and W.D. Koenig. 2020. Mast seeding patterns are asynchronous at a continental scale. Nature Plants 6: 460-465. [Link](#)
- 2020\* Zuckerberg, B., C. Strong, **J.M. LaMontagne**, S. St. George, J.L. Betancourt, and W.D. Koenig. 2020. Climate dipoles as continental drivers of plant and animal populations. Trends in Ecology & Evolution 35: 440-453. [Link](#) \*named as one of the 'Best of 2020 Trends in Ecology & Evolution' articles
- 2020 Ascoli D., A. Hackett-Pain, **J.M. LaMontagne**, A. Cardil, M. Conedera, J. Maringer, R. Motta, I.S. Pearse, G. Vacchiano. 2019. Climate teleconnections synchronize *Picea glauca* mast seeding and fire disturbance: Evidence for a fire-related form of environmental prediction. Journal of Ecology 108: 1186-1198. [Link](#)
- 2020 Wang, Y, **J.M. LaMontagne**, Y. Chen, F. Lin, Z. Yuan, J. Ye, X. Wang, and Z. Hao. 2020. A comparison of community structure between seed rain and neighboring adult trees in an old-growth temperate forest. Journal of Forestry Research 31: 2435-2444. [Link](#)
- 2020 <sup>¶</sup>Hacker, J.G., L. Hopper, S. Magle, **J.M. LaMontagne**. 2020. Avian community composition and behavior around a novel object. Meadowlark 29: 1-18.
- 2019 Fernández-Martínez, M., I. Pearse, J. Sardans, F. Sayol, W.D. Koenig, **J.M. LaMontagne**, M. Bogdziewicz, A. Collalti, A. Hackett-Pain, G. Vacchiano, J.M. Espelta, J. Peñuelas, I.A. Janssens. 2019. Nutrient scarcity as a selective pressure for mast seeding. Nature Plants 5: 1222-1228. [Link](#)
- 2019 <sup>¶</sup>Zlatev\*, D.B., M.C. <sup>¶</sup>Lordon\*, E.A. <sup>¶</sup>Schremp, A.C. <sup>¶</sup>Steffen, A.E. <sup>¶</sup>Grecco, J.S. Bystriansky, and **J.M. LaMontagne**. 2019. Clam community composition and prey shell size impacts moon snail (Gastropod: Naticidae) drilling frequencies in South Carolina, USA. Marine Ecology: e12526. \*Co-lead authors [Link](#)
- 2019 <sup>¶</sup>Bovyn, R.A., M.C. <sup>¶</sup>Lordon, A.E. <sup>¶</sup>Grecco, A.C. <sup>¶</sup>Leeper, and **J.M. LaMontagne**. 2019. Tree cavity availability in cemeteries and urban parks. Journal of Urban Ecology 5: juy030. [Link](#)
- 2018 <sup>¶</sup>Bovyn, R, E. McCauley, and **J.M. LaMontagne**. 2018. Offspring size-number tradeoffs and food quality feedbacks impact population dynamics in a *Daphnia*-algae system. Oikos 127: 1152-1162. [Link](#)
- 2017 Pearse, I.S., **J.M. LaMontagne**, and W.D. Koenig. 2017. Interannual variation in mast seeding has increased over time (1900-2014). Proceedings of the Royal Society B 284: 201716666. [Link](#)
- 2017 <sup>¶</sup>Shaughnessy, C., E.C. <sup>¶</sup>Anderson, M. <sup>¶</sup>Kasparian, **J.M. LaMontagne**, and J.S. Bystriansky. 2017. Survival and osmoregulation of the purple marsh crab *Sesarma reticulatum* at varying salinity and pH. Canadian Journal of Zoology 95: 985-989. [Link](#)
- 2017 Wang\*, Y, J. Zhang\*, **J.M. LaMontagne**, F. Lin, B. Li, J. Ye, and Z. Hao. 2017. Variation and synchrony of tree species mast seeding in an old-growth temperate forest. Journal of Vegetation Science 28: 413-423. \*Co-lead authors [Link](#)
- 2016 <sup>¶</sup>Anderson, E.C., and **J.M. LaMontagne**. 2016. Nest selection by Red-headed Woodpeckers across three spatial scales in an urban environment. Urban Ecosystems 19: 197-314. [Link](#)
- 2015 **LaMontagne, J.M.**, R.J. Kilgour, E.C. <sup>¶</sup>Anderson, and S. Magle. 2015. Tree cavity availability across forest, park, and residential habitats in a highly urban area. Urban Ecosystems 18:151-167. [Link](#)
- 2014 <sup>¶</sup>Anderson, E.C., and **J.M. LaMontagne**. 2014. Characteristics of recently used or reused Red-headed Woodpecker cavity nests in Cook County, IL. Meadowlark 23: 46-52.
- 2013 **LaMontagne, J.M.**, C.T. Williams, J.L. Donald, M.M. Humphries, A.G. McAdam, and S. Boutin. 2013. Linking intraspecific variation in territory size, cone supply, and survival of North American red squirrels. Journal of Mammalogy 94: 1048-1058. [Link](#)

- 2013 Flanagan, K.M. and **J.M. LaMontagne**. 2013. Caribou Conservation Conundrum. National Center for Case Study Teaching in Science. *This case was featured by the National Center for Case Study Teaching in Science Mar 2013*.
- 2012 Krebs, C.J., **J.M. LaMontagne**, A.J. Kenney, and S. Boutin. 2012. Climatic determinants of white spruce cone crops in the boreal forest of the southwestern Yukon. Botany 90: 113-119. [Link](#)
- 2010 Fletcher, Q.E., S. Boutin, J.E. Lane, **J.M. LaMontagne**, A.G. McAdam, C.J. Krebs, and M.M. Humphries. 2010. The functional response of a hoarding seed predator to mast seeding. Ecology 91: 2673–2683. [Link](#)
- 2010 Tracz, B.V., **J.M. LaMontagne**, E. Bayne, and S. Boutin. 2010. Annual and monthly range fidelity of female boreal woodland caribou in response to petroleum development. Rangifer 30: 31-44. [Link](#)
- 2009 **LaMontagne**, J.M. and S. Boutin. 2009. An evaluation of quantitative methods for defining mast-seeding years across species and studies. Journal of Vegetation Science 20: 745-753. [Link](#)
- 2007 **LaMontagne**, J.M. and S. Boutin. 2007. Local-scale synchrony and variability in mast seed production patterns of *Picea glauca*. Journal of Ecology 95: 991-1000. [Link](#)
- 2007 Kerr, T., S. Boutin, **J.M. LaMontagne**, A.G. McAdam, and M.M. Humphries. 2007. Persistent maternal effects on juvenile survival in North American red squirrels. Biology Letters 3: 289–291. [Link](#)
- 2006 Pretzlau, T., C. Trudeau, M.M. Humphries, **J.M. LaMontagne**, and S. Boutin. 2006. Red squirrel (*Tamiasciurus hudsonicus*) feeding on bark beetles (*Dendroctonus rufipennis*) in the Canadian boreal forest: energetic and ecological implications. Journal of Mammalogy 87: 909-914. [Link](#)
- 2005 **LaMontagne**, J.M., S. Peters, and S. Boutin. 2005. A visual index for estimating cone production for individual white spruce trees. Canadian Journal of Forest Research 35: 3020–3026. [Link](#)
- 2005 **LaMontagne**, J.M. and S. Boutin. 2005. Effects of spruce bark beetle infestation on red squirrel population density. *In: Kluane Ecological Monitoring Project Annual Report 2004/2005*. J. D. Henry, C.J. Krebs, E. Hofer, A.J. Kenney & A. Chilibeck (editors).
- 2004 **LaMontagne**, J.M., R.M.R. Barclay, and L.J. Jackson. 2004. Trumpeter swan energy balance at stopover areas during spring migration. Northwestern Naturalist 85: 104-110.
- 2003 **LaMontagne**, J.M., L.J. Jackson, and R.M.R. Barclay. 2003. Trumpeter swan habitat preference in stopover areas during spring migration. Canadian Journal of Zoology 81: 1791-1798. [Link](#)
- 2003 **LaMontagne**, J.M., L.J. Jackson, and R.M.R. Barclay. 2003. Compensatory growth responses of *Potamogeton pectinatus* to foraging by migrating trumpeter swans in spring stop over areas. Aquatic Botany 76: 235-244. [Link](#)
- 2002 **LaMontagne**, J.M., R.L. Irvine, and E.E. Crone. 2002. Spatial patterns of population regulation and population viability in sage grouse (*Centrocercus* spp.). Journal of Animal Ecology 71: 672-682. [Link](#)
- 2002 **LaMontagne**, J.M. 2002. Use of spring migration stopover habitat by trumpeter swans in southern Alberta. Parks Canada Research Links 10: 18-20.
- 2001 **LaMontagne**, J.M., R.M.R. Barclay, and L.J. Jackson. 2001. Trumpeter swan behaviour at spring migration stopover areas in Southern Alberta. Canadian Journal of Zoology 79: 2036-2042. [Link](#)
- 2001 **LaMontagne**, J.M., and E. McCauley. 2001. Maternal effects in *Daphnia*: what mothers are telling their offspring and do they listen? Ecology Letters 4: 64-71. [Link](#)

## WORKING GROUPS & SCIENTIFIC VISITS

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- 2023-present Scientific visitor, Dartmouth College. Host: Dr. Bala Chaudhary. Hanover, NH. 10/2023, 03/2024
- 2022-present National Ecological Observatory Network (NEON) Great Lakes User Group (GLUG) member.
- 2021-present Lead-PI, Long-Term Ecological Research (LTER) Synthesis Working Group / National Center for Ecological Analysis & Synthesis (NCEAS). Environmental drivers of plant reproduction. NCEAS meetings: 04/2022, 09/2022, 03/2023, 12/2023
- 2021-present TREETIME (Terrestrial Responses to Emerging Environments through Time, Integrated from Moments to Eons), a NSF Biology Integration Institute Design Project. The Morton Arboretum.
- 2017-present Spruce and Peatland Response Under Changing Environments (SPRUCE) Experiment Collaborator. Oak Ridge National Laboratory, Department of Energy.
- 2023 Mast seeding workshop - Invited participant. Adam Mickiewicz University, Poznań, Poland. 06/2023
- 2021-2022 Canopy Tools, Working Group. The Morton Arboretum.
- 2022 MASTNET meeting - invited meeting participant, London, UK. 05/2022
- 2019-2021 Community transitions in NEON data, Working Group.
- 2019-2021 Cleaning NEON data for scientific analysis, Working Group.
- 2019 NEON Science Summit participant, CU-Boulder. 10/2019
- 2017 Scientist and Land Manager Oak Meeting, Morton Arboretum, 08/2017
- 2016-2017 Red-headed woodpecker conservation team in the Chicago Wilderness area, Member (led by The Nature Conservancy)
- 2015 Visiting Scientist at Queen's University. Hosts: Dr. Ryan Danby and Dr. William Nelson, Kingston, ON, Canada. 04/2015
- 2010 Scientific visitor at the National Center for Ecological Analysis and Synthesis (NCEAS), Santa Barbara, CA, 03/10

## INVITED TALKS

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- 2024 **LaMontagne, J.M.** Title TBD. University of Puerto Rico, Department of Environmental Sciences Seminar. April 2024 (Forthcoming)
- 2024 **LaMontagne, J.M.** and J. Barton. Linking climate dipoles with continental-scale dynamics of plant and animal populations. Invited Speaker. NEON (National Ecological Observatory Network)-Battelle Terrestrial Observational Sampling Training Palooza. January 2024.
- 2023 **LaMontagne, J.M.** Career Growth Through Internships and Fellowships: Unlocking Opportunities in Ecology. Invited Panelist. Ecological Society of America annual meeting. August 2023.
- 2023 **LaMontagne, J.M.** Embracing Variability in Population Ecology: From synchrony in mast seeding to urban ecology. Drexel University, Department of Biodiversity, Earth, and Environmental Science Seminar. April 2023.
- 2023 **LaMontagne, J.M.** Mast seeding across spatial scales. The Morton Arboretum, Center for Tree Science Seminar Series. February 2023.
- 2022 **LaMontagne, J.M.** Long-term research: Perspectives from a researcher in the U.S. Invited Panelist, Long-Term Research Section Special Session. Ecological Society of America-Canadian Society for Ecology & Evolution joint meeting. August 2022.
- 2022 **LaMontagne, J.M.** The highs and lows of cone production. Keynote Speaker. Huron Mountain Wildlife Foundation Annual Meeting. August 2022.
- 2022 **LaMontagne, J.M.**, E.E. Crone, & M.D. Redmond. How to characterize mast seeding. National Center for Ecological Analysis and Synthesis. Santa Barbara. April 2022.
- 2022 **LaMontagne, J.M.**, M.D. Redmond, & E.E. Crone. Drivers of Plant Reproduction. LTER Synthesis webinar. Virtual presentation. April 2022.

- 2022 **LaMontagne, J.M.** Embracing Variability in Population Ecology – Opportunities for New Insights. DePaul University. College of Science & Health. Virtual presentation. April 2022.
- 2021 **LaMontagne, J.M.** Conifer reproduction across scales: What are the patterns, drivers, and impacts of climate change? Michigan Tech University. Department of Biological Sciences Seminar Series. Virtual presentation. October 2021.
- 2021 **LaMontagne, J.M.** Embracing Variability in Population Ecology: From synchrony in mast seeding to urban ecology. Clemson University. Biology Department Seminar Series. Virtual presentation. April 2021.
- 2021 **LaMontagne, J.M.** Embracing variability in population ecology: From continental synchrony in mast seeding to urban ecology. University of Ottawa, Ottawa, Canada. Biology Department Seminar Series. Virtual presentation. April 2021.
- 2020 **LaMontagne, J.M.** Mast seeding across scales: patterns, drivers, and climate change. Ohio University. Botany Department Seminar Series. Virtual presentation. November 2020.
- 2019 Miller, K., L. Hopper, S. Magle, & **J.M. LaMontagne**. Experimentally testing urbanization and bird cognition, and problem-solving efficiency in black-capped chickadees. Lincoln Park Zoo Seminar Series. September 2019. (presented by K. Miller)
- 2019 **LaMontagne, J.M.** Embracing variability in population ecology: Conservation biology, urban ecology, and synchrony in tree reproduction. Butler University. Biology Seminar Series. March 2019.
- 2019 **LaMontagne, J.M.** Embracing Variability in Population Ecology: Continental synchrony in mast seeding to urban ecology. University of Wisconsin – Madison. Forest and Wildlife Ecology Seminar Series. March 2019.
- 2018 **LaMontagne, J.M.** Spatial Patterns in Population Ecology: From continental synchrony in mast seeding to urban ecology. Loyola University, Biology Seminar Series. October 2018.
- 2017 **LaMontagne, J.M.** Expedition Antarctica: Landscapes, wildlife, and climate change in the Antarctic Peninsula. An Earth Day Talk. DePaul University, DePaul Ecology, Evolution & Physiology (DEEP) Club Earth Day Seminar. April 2017.
- 2016 **LaMontagne, J.M.** Synchrony in mast seeding across spatial scales, and tales of tree cavities, Northern Illinois University, DeKalb, IL, March 2016.
- 2016 **LaMontagne, J.M.** Synchrony in mast seeding across spatial scales, and other population ecology research by the LaMontagne lab. DePaul University, Department of Biological Sciences Seminar Series, January 2016.
- 2015 **LaMontagne, J.M.** Synchrony in mast seeding across spatial scales, and tales of tree cavities, Illinois Natural History Survey Seminar Series, Illinois Natural History Survey, Champaign, IL, March 2015.
- 2015 **LaMontagne, J.M.** Spatial and temporal variation in mast seeding patterns, Ecology & Evolution seminar series, Department of Biological Sciences, University of Illinois at Chicago, February 2015.
- 2014 Anderson, E.C. and **J.M. LaMontagne**. Nesting patterns of Red-Headed Woodpeckers in Cook County, Conservation and Science Lecture Series, Lincoln Park Zoo, May 2014. (presented by E. Anderson)
- 2013 **LaMontagne, J.M.** Spring migration of Trumpeter Swans: behaviour and habitat selection at stopover sites, Conservation and Science Lecture Series, Lincoln Park Zoo, March 2013.
- 2011 **LaMontagne, J.M.** Changing environments: Individual & population perspectives. DePaul University. April 2011.
- 2011 **LaMontagne, J.M.** Variability in Nature: Resource pulses. Mount Holyoke College. April 2011.
- 2011 **LaMontagne, J.M.** Changing environments: Individual & population perspectives. Washburn University. March 2011.
- 2008 **LaMontagne, J.M.** Variability in food availability: individual & population responses of red squirrels, Ecology Division Seminar, University of Calgary.
- 2000 **LaMontagne, J.M.** Use of Migration Stopover areas by Trumpeter Swans in Southern Alberta, Ecology Division Seminar, University of Calgary.



- 2000 **LaMontagne, J.M.** Springtime habitat use by Trumpeter Swans west of Calgary, Calgary Field Naturalists.

## CONFERENCE ACTIVITY

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### Conferences & Symposia Organized / Sessions Chaired

- 2024 Invited contributor, Ecological data synthesis: a primer on essential methods. Short course for the Ecological Society of America meeting. Lead organizer Grey Maurer. (proposed for summer 2024)
- 2023 Session Chair, Habitats and Biodiversity. International Boreal Forest Research Association (IBFRA) meeting. Conference theme: 'Climate Resilient and Sustainable Forest Management'. Helsinki, Finland. (08/2023)
- 2023 Lead Organizer, Organized Oral Session. Understanding patterns and drivers of plant reproduction through synthesis. Ecological Society of America (ESA). (08/2023)
- 2023 Session Chair, Intraspecific Variation. International mast seeding workshop. Adam Mickiewicz University, Poznań, Poland (06/2023)
- 2021 Meet-up co-organizer, CSEE International Meet-up (with Dr. Gord McNickle, Purdue University), Canadian Society for Ecology & Evolution (CSEE) Conference
- 2018 Symposium co-organizer, Ecology in An Urbanizing World (with Dr. Andrea Kirkwood, UOIT), Canadian Society for Ecology & Evolution Conference (CSEE)
- 2014 Symposium co-organizer, DePaul University Field Biology Symposium (with Dr. Jason Bystriansky, DePaul University)
- 2013 Symposium co-organizer, DePaul University Field Biology Symposium (with Dr. Jason Bystriansky, DePaul University)
- 2004 Lead Conference Organiser, The 38<sup>th</sup> Prairie Universities Biological Symposium, University of Alberta

### Conference Presentations

<sup>G</sup> = graduate student co-author <sup>U</sup> = undergraduate student co-author under my supervision.

- 2024 **LaMontagne, J.M.**, C. Strong, H. Bai, J.J. Foest, A. Hackett-Pain, M. Schulze, and B. Zuckerberg. Atmospheric waves synchronize and desynchronize mast seeding at a hemispheric scale. Poster presented at the NSF Macrosystems PI Meeting. Virtual meeting. February 7-8, 2024.
- 2024 Bai, H., C. Strong, **J.M. LaMontagne**, I.V. Widick, B. Zuckerberg. A North American climate-masting-irruption teleconnection and its change under global warming. Poster presented at the NSF Macrosystems PI Meeting. Virtual meeting. February 7-8, 2024.
- 2023 **LaMontagne, J.M.** Twelve years of conifer reproduction in the Northwoods. Science In The Northwoods meeting. Woodruff, Wisconsin. October 2023.
- 2023 <sup>G</sup>Chernicky, K. **LaMontagne, J.M.**. Forest regeneration dynamics in the boreal-temperate ecotone. Science In The Northwoods meeting. Woodruff, Wisconsin. October 2023.
- 2023 **LaMontagne, J.M.**, J.H. Barton, A.S. <sup>G</sup>Rivera. Dynamics of tree reproduction, seed consumers, & ticks at NEON sites. NEON Great Lakes User Group Workshop. Woodruff, Wisconsin. September 2023.
- 2023 **LaMontagne, J.M.** How does a changing climate influence seed production in boreal conifers? Findings from observational and experimental approaches. International Boreal Forest Research Association (IBFRA) meeting. Helsinki, Finland. August 2023.
- 2023 Widick, I.V., M. Young, **J.M. LaMontagne**, C. Strong, B. Zuckerberg. Boreal bird irruptions as indicators of altered climate variability. Joint meeting of the American Ornithological Society (AOS) & The Society of Canadian Ornithologists - Société des Ornithologistes du Canada (SCO-SOC). London, Ontario, Canada. August 2023.

- 2023 **LaMontagne, J.M.**, E.E. Crone, M.D. Redmond, J.H. Barton, V.B. Chaudhary, A. Chen, N. Cleavitt, D.F. Greene, P. Holland, J. Johnstone, W. Koenig, N. Lyon, D. Macias, T.E.X. Miller, K. Nigro, I.S. Pearse, M. Schulze, R.S. Snell, J.K. Zimmerman. Cross-species synchrony in mast-seeding patterns across LTER sites. Ecological Society of America meeting. Portland, Oregon. August 2023.
- 2023 Greene, D.F., **J.M. LaMontagne**, M.D. Redmond. Time to reproductive onset and subsequent annual variability in the seed production of serotinous and non-serotinous conifers. Ecological Society of America meeting. Portland, Oregon. August 2023.
- 2023 Pearse, I.S., W. Koenig, **J.M. LaMontagne**, A. Wion, J.J. Foest, M.D. Redmond. Variability in tree seed production at the core and margin of species range. Ecological Society of America meeting. Portland, Oregon. August 2023.
- 2023 **LaMontagne, J.M.**, A.C. <sup>©</sup>Leeper. Are there advantages to intraspecific variation in mast seeding? International mast seeding workshop. Adam Mickiewicz University, Poznań, Poland. June 2023.
- 2023 Barton, J.H., I.V. Widick, B. Zuckerberg, C. Strong, M.A. Jarzyna, **J.M. LaMontagne**. An ecological dipole in North American small mammal data from NEON. Canadian Society for Ecology & Evolution - Canadian Botanical Association joint meeting. Winnipeg, Canada. June 2023.
- 2023 <sup>©</sup>Rivera, S., J.H. Barton, C. Strong, B. Zuckerberg, **J.M. LaMontagne**. Spatiotemporal dynamics of ticks and tick-borne disease at NEON sites across a sub-continental scale. Canadian Society for Ecology & Evolution - Canadian Botanical Association joint meeting. Winnipeg, Canada. June 2023.
- 2023 **LaMontagne, J.M.**, B. Lawrence, T. <sup>©</sup>Stoycheva, A.C. Leeper, K.J. Pearson, J.R. Phillips, P.J. Hanson. Six years of reproduction in *Picea* and *Larix*. Presented at the Spruce and Peatland Response to Changing Environments (SPRUCE) meeting. Hosted by the Oak Ridge National Laboratory. Minneapolis, MN. May 2023.
- 2022 **LaMontagne, J.M.**, B. Lawrence, T. <sup>©</sup>Stoycheva, A.C. <sup>©</sup>Leeper, K.J. Pearson, J.R. Phillips, P.J. Hanson. Experimental warming and elevated CO<sub>2</sub> jointly affect conifer reproduction in a boreal bog ecosystem. American Geophysical Union (AGU) Fall meeting. Chicago, IL. December 2022.
- 2022 Widick, I., H. Bai, C. Strong, **J.M. LaMontagne**, B. Zuckerberg. Climate dipoles entrain ecological dipoles: Irruption dynamics of boreal finches. Poster presented at the American Geophysical Union (AGU) Fall meeting. Chicago, IL. December 2022.
- 2022 Bai, H., C. Strong, **J.M. LaMontagne**, B. Zuckerberg. Summer North American dipole driven by stationary Rossby waves associated with tropical and monsoonal convection. Poster presented at the American Geophysical Union (AGU) Fall meeting. Chicago, IL. December 2022.
- 2022 **LaMontagne, J.M.**, E.E. Crone, M.D. Redmond, J. Barton, D. Bell, V.B. Chaudhary, A. Chen, N. Cleavitt, D.F. Greene, E.P. Holland, J. Johnstone, W.D. Koenig, N. Lyon, D. Macias, T. Miller, K. Nigro, I.S. Pearse, A. Satake, M. Schulze, I. Slette, R. Snell, J. Zimmerman. Cross-site synthesis: Patterns & drivers of plant reproduction across LTER sites. Poster presented at the Long-Term Ecological Research (LTER) All-Scientists Meeting. Asilomar Conference Center, California. September 2022.
- 2022 **LaMontagne, J.M.** Long-term research on mast seeding in the Huron Mountains. Ives Lake Field Station, Huron Mountains, Michigan. September 2022.
- 2022 Barton, J.H., B. Zuckerberg, C. Strong, M. Jarzyna, I. Widick, and **J.M. LaMontagne**. Local to continental-scale small mammal population dynamics in North America. Poster presented at the Ecological Society of America-Canadian Society for Ecology & Evolution joint meeting. Montreal, Canada. August 2022.
- 2022 <sup>©</sup>Rivera, A.S., J.H. Barton, C. Strong, B. Zuckerberg, and **J.M. LaMontagne**. Ticks and tick-borne disease dynamics across the contiguous United States. Poster presented at the Ecological Society of America-Canadian Society for Ecology & Evolution joint meeting. Montreal, Canada. August 2022.

- 2022 <sup>G</sup>Stoycheva, T., B. Lawrence, A.C. <sup>G</sup>Leeper, K.J. Pearson, J.R. Phillips, P.J. Hanson, and **J.M. LaMontagne**. Experimental warming and elevated CO<sub>2</sub> affect black spruce cone characteristics. Poster presented at the Ecological Society of America-Canadian Society for Ecology & Evolution joint meeting. Montreal, Canada. August 2022.
- 2022 **LaMontagne, J.M.**, B. Lawrence, T. <sup>G</sup>Stoycheva, A.C. <sup>G</sup>Leeper, K.J. Pearson, J.R. Phillips, and P.J. Hanson. Experimental warming and elevated CO<sub>2</sub> changes reproductive output of black spruce. Poster presented at the Ecological Society of America-Canadian Society for Ecology & Evolution joint meeting. Montreal, Canada. August 2022.
- 2022 **LaMontagne, J.M.**, C. <sup>U</sup>Corona, and A.C. <sup>G</sup>Leeper. Variation in eastern spruce budworm defoliation across trees within forest stands. North American Forest Ecology Workshop. Virtual meeting. June 2022.
- 2022 <sup>G</sup>Stoycheva, T., B. Lawrence, A.C. <sup>G</sup>Leeper, K.J. Pearson, J.R. Phillips, P.J. Hanson, and **J.M. LaMontagne**. Experimental warming and elevated CO<sub>2</sub> affect black spruce cone characteristics. North American Forest Ecology Workshop. Virtual meeting. June 2022.
- 2022 <sup>G</sup>Hohl, D. and **J.M. LaMontagne**. Changes over time in tree characteristics and tree cavities across habitats in a highly urban area. Poster presented at the North American Forest Ecology Workshop. Virtual meeting. June 2022.
- 2022 <sup>G</sup>Rivera, A.S., J.H. Barton, C. Strong, B. Zuckerberg, and **J.M. LaMontagne**. Ticks and tick-borne disease dynamics across the contiguous United States. Poster presented at the North American Forest Ecology Workshop. Virtual meeting. June 2022.
- 2022 Barton, J.H., B. Zuckerberg, C. Strong, M. Jarzyna, and **J.M. LaMontagne**. Local to continental-scale small mammal population dynamics in North America. North American Forest Ecology Workshop. Virtual meeting. June 2022.
- 2022 <sup>G</sup>Stoycheva, T., B. Lawrence, A.C. Leeper, K.J. Pearson, J.R. Phillips, P.J. Hanson, and **J.M. LaMontagne**. Variation in cone morphology and seed characteristics across SPRUCE treatments. Presented at the Spruce and Peatland Response to Changing Environments (SPRUCE) meeting. Hosted by the Oak Ridge National Laboratory. Virtual meeting. May 2022.
- 2022 **LaMontagne, J.M.**, B. Lawrence, T. <sup>G</sup>Stoycheva, A.C. Leeper, K.J. Pearson, J.R. Phillips, P.J. Hanson. Reproduction in *Picea* and *Larix*. Presented at the Spruce and Peatland Response to Changing Environments (SPRUCE) meeting. Hosted by the Oak Ridge National Laboratory. Virtual meeting. May 2022.
- 2021 Bai, H., C. Strong, B. Zuckerberg, and **J.M. LaMontagne**. Continental-scale climate dipoles driven by Pan-Pacific waves. Presented at the American Geophysical Union (AGU) meeting. New Orleans, LA. December 2021.
- 2021 **LaMontagne, J.M.**, M.D. Redmond, A.P. Wion, and D.F. Greene. Patterns of reproductive variability in North American conifer trees (1960-2014). Presented at the British Ecological Society meeting. Liverpool, UK – hybrid conference. December 2021.
- 2021 **LaMontagne, J.M.**, M.D. Redmond, A.P. Wion, and D.F. Greene. Temporal variability in mast seeding patterns of North American conifers. Presented at the Canadian Society for Ecology & Evolution meeting. Vancouver, B.C. – online conference. August 2021.
- 2021 <sup>G</sup>Hohl, D., and **J.M. LaMontagne**. Urban tree cavity trends over time. Presented at the Canadian Society for Ecology & Evolution meeting. Vancouver, B.C. – online conference. August 2021.
- 2021 Barton, J., B. Zuckerberg, C. Strong, M. Jarzyna, and **J.M. LaMontagne**. Uncovering ecological dipoles of small mammals in North America. Presented at the Canadian Society for Ecology & Evolution meeting. Vancouver, B.C. – online conference. August 2021.
- 2021 <sup>G</sup>Stoycheva, T., A.C. Leeper, B. Lawrence, K.J. Pearson, W.R. Nettles, J.R. Phillips, P.J. Hanson, and **J.M. LaMontagne**. Experimental warming and elevated CO<sub>2</sub> impacts on tamarack cone characteristics. Presented at the Canadian Society for Ecology & Evolution meeting. Vancouver, B.C. – online conference. August 2021.

- 2021 **LaMontagne, J.M.** Reproduction in *Picea* and *Larix*. Presented at the Spruce and Peatland Response to Changing Environments (SPRUCE) meeting. Hosted by the Oak Ridge National Laboratory. Virtual meeting. May 2021.
- 2021 **LaMontagne, J.M.**, J.H. Barton, A.S. <sup>U</sup>Rivera, C. Strong, B. Zuckerberg. Ecological dipoles: mast seeding & continental scale population dynamics. Poster presented at the NSF Macrosystems PI Meeting. Virtual meeting. January 13-14, 2021.
- 2021 Bai, H., C. Strong, B. Zuckerberg, **J.M. LaMontagne**. Global teleconnections of west-east pine siskin irruption mode. Poster presented at the NSF Macrosystems PI Meeting. Virtual meeting. January 13-14, 2021.
- 2021 Widick, I., C. Strong, **J.M. LaMontagne**, B. Zuckerberg. Influence of climate dipoles on avian irruption at continental scales. Poster presented at the NSF Macrosystems PI Meeting. Virtual meeting. January 13-14, 2021.
- 2020 **LaMontagne, J.M.**, A.C. Leeper, and B.A. Lawrence. Testing drivers of individual-level asynchrony in mast-seeding patterns. Poster presented at the British Ecological Society annual meeting. December 2020.
- 2020 **LaMontagne, J.M.**, Lawrence, B.A., C. Iversen, A. King, J.R. Phillips, W.R. Nettles, and P.J. Hanson. Experimental warming and elevated CO<sub>2</sub> impact reproduction of boreal conifer trees. Poster presented at the Ecological Society of America meeting. Virtual meeting. August 2020.
- 2020 Clark, J.S., ..., **J.M. LaMontagne**, et al. (55 authors total). Interactions that control the pace of forest change in North America. Presented at the Ecological Society of America meeting. Virtual meeting. August 2020.
- 2020 Sharma, S., R. ..., **J.M. LaMontagne**, ... J.S. Clark (55 authors total). North American tree migration paced by fecundity and recruitment through contrasting mechanisms east and west. Presented at the Ecological Society of America meeting. Virtual meeting. August 2020.
- 2020 **LaMontagne, J.M.**, Lawrence, B.A., C. Iversen, A. King, J.R. Phillips, W.R. Nettles, and P.J. Hanson. Experimental warming and elevated CO<sub>2</sub> impact reproduction of boreal conifer trees. Presented at the Spruce and Peatland Response to Changing Environments (SPRUCE) meeting. Hosted by the Oak Ridge National Laboratory. Virtual meeting. May 2020.
- 2019 **LaMontagne, J.M.**, I.S. Pearse, D.F. Greene, and W.D. Koenig. Mast seeding is asynchronous at a continental scale in white spruce. Presented at the British Ecological Society meeting, Belfast, UK. December 2019.
- 2019 **LaMontagne, J.M.**, A.C. <sup>G</sup>Leeper & C. <sup>U</sup>Corona. Cone production patterns of white spruce, and observations of spruce budworm defoliation. 4<sup>th</sup> Science in the Northwoods Conference. Kemp Natural Resources Station, Woodruff, WI. October 2019.
- 2019 <sup>U</sup>Sterman, J., A.C. <sup>G</sup>Leeper & **J.M. LaMontagne**. Synchrony of mast seeding patterns in a boreal forest community. Joint meeting of the Canadian Society for Ecology and Evolution, the Canadian Entomological Society, and the Acadian Society of Entomologists. Fredericton, New Brunswick, Canada. August 2019.
- 2019 **LaMontagne, J.M.**. J.R. Phillips, W.R. Nettles, and P.J. Hanson. Experimental warming and increased CO<sub>2</sub> impact cone production in black spruce. Joint meeting of the Canadian Society for Ecology and Evolution, the Canadian Entomological Society, and the Acadian Society of Entomologists. Fredericton, New Brunswick, Canada. August 2019.
- 2019 <sup>U</sup>Corona, C., A.C. <sup>G</sup>Leeper & **J.M. LaMontagne**. Eastern spruce budworm defoliation of white spruce over balsam fir in N. Wisconsin, USA. Poster presented at the Joint meeting of the Canadian Society for Ecology and Evolution, the Canadian Entomological Society, and the Acadian Society of Entomologists. Fredericton, New Brunswick, Canada. August 2019.
- 2019 <sup>G</sup>Leeper, A.C. & **J.M. LaMontagne**. Mast seeding and a spruce budworm outbreak: is there a benefit to trees being asynchronous? Poster presented at the Joint meeting of the Canadian Society for Ecology and Evolution, the Canadian Entomological Society, and the Acadian Society of Entomologists. Fredericton, New Brunswick, Canada. August 2019.

- 2019 <sup>G</sup>Miller, K., L. Hopper, S. Magle, & **J.M. LaMontagne**. Problem-solving performance of songbirds in urban and rural environments. Poster presented at Behaviour 2019: the 56th Annual Conference of the Animal Behavior Society and the 36th International Ethological Conference. Chicago, IL. July 2019.
- 2019 **LaMontagne, J.M.**, J.R. Phillips, W.R. Nettles, and P.J. Hanson. Experimental warming and increased CO<sub>2</sub> impact cone production in black spruce. Poster presented at the 12<sup>th</sup> North American Forest Ecology Workshop: Forests on the edge: forest ecology in rapidly changing conditions. Flagstaff, Arizona. June 2019.
- 2019 Zuckerberg, B, C. Strong, **J.M. LaMontagne**. The influence of climatic dipoles on irruption dynamics in a warming world. 137th Annual Meeting American Ornithological Society Birds on the Edge: Dynamic Boundaries. Anchorage, Alaska. June 2019.
- 2019 <sup>G</sup>Rios, M.J., S. Magle, & **J.M. LaMontagne**. Spatio-temporal patterns of brown rat and free-roaming cat populations in the city of Chicago. Poster presented at the International Urban Wildlife Conference. Portland, Oregon. June 2019.
- 2018 <sup>G</sup>Morris, K., E. <sup>G</sup>Anderson, M. Wade, & **J.M. LaMontagne**. Urbanization, invasive species, and competition for tree cavities: A red-headed woodpecker case study. Presented in the Urban Ecology Symposium at the Canadian Society for Ecology & Evolution Meeting. University of Guelph, Guelph, Ontario, Canada. July 2018.
- 2018 <sup>U</sup>Leeper, A.C., B. Lawrence, & **J.M. LaMontagne**. Soil nutrients and mast seeding patterns of white spruce. Presented at the Canadian Society for Ecology & Evolution Meeting. University of Guelph, Guelph, Ontario, Canada. July 2018.
- 2018 <sup>G</sup>Miller, K., L. Hopper, S. Magle, & **J.M. LaMontagne**. Problem-solving performance of songbirds across an urbanization gradient. Poster presented at the Canadian Society for Ecology & Evolution Meeting. University of Guelph, Guelph, Ontario, Canada. July 2018.
- 2018 <sup>U</sup>Sterman, J., A.C. Leeper & **J.M. LaMontagne**. Mast seeding patterns in a boreal forest community. Poster presented at the Canadian Society for Ecology & Evolution Meeting. University of Guelph, Guelph, Ontario, Canada. July 2018.
- 2018 <sup>U</sup>Barton, J. & **J.M. LaMontagne**. Algal-food forcing and population dynamics of food forcing and population dynamics of *D. pulex*. Poster presented at the Canadian Society for Ecology & Evolution Meeting. University of Guelph, Ontario, Canada. July 2018.
- 2018 <sup>U</sup>Leeper, A.C., B.A. Lawrence & **J.M. LaMontagne**. How does soil nutrient availability influence mast seeding dynamics of white spruce? Poster presented at US Regional Association of the International Association for Landscape Ecology Annual Meeting, Palmer House, Chicago, IL. April 2018.
- 2018 **LaMontagne, J.M.**, I.S. Pearce, D.F. Greene, and W.D. Koenig. Synchrony and variability in mast seeding of white spruce across the boreal forest. Presented at US Regional Association of the International Association for Landscape Ecology Annual Meeting, Palmer House, Chicago, IL. April 2018.
- 2017 **LaMontagne, J.M.**, I. Pearce, and W.D. Koenig. Mast seeding patterns in five North American conifer genera (1912-2014). Presented at the Canadian Society for Ecology & Evolution Meeting. Victoria, British Columbia, Canada. May 2017.
- 2017 <sup>G</sup>Hacker, J., L. Hopper, S. Magle, & **J.M. LaMontagne**. Behaviour of animals in wild populations within urban vs suburban habitats. Presented at the Canadian Society for Ecology & Evolution Meeting. Victoria, British Columbia, Canada. May 2017.
- 2017 <sup>U</sup>Leeper, A.C. & **J.M. LaMontagne**. Reproductive trade-offs in a mast seeding species. Poster presented at the Canadian Society for Ecology & Evolution Meeting. Victoria, British Columbia, Canada. May 2017.
- 2016 Zuckerberg, B., J. McCabe, C. Strong, **J.M. LaMontagne**, J. Betancourt and W. Koenig. Searching for home: Irruptive migrants seek out familiar landscapes. NAOO (North American Ornithological Conference) IV, Washington DC. \*Invited presentation in a symposium on Big Data Ornithology.

- 2016 **LaMontagne, J.M.**, I. Pearse, M. <sup>U</sup>Lordon, and W.D. Koenig. Mast seeding in white spruce: spatio-temporal patterns and climate change. Presented at the Canadian Society for Ecology & Evolution Meeting. St. John's, Newfoundland.
- 2016 Goulding, M., **J.M. LaMontagne**, and M. Reid. White spruce of the southwest Yukon and their interactions with the spruce beetle. Presented at the Canadian Society for Ecology & Evolution Meeting. St. John's, Newfoundland, Canada.
- 2015 **LaMontagne, J.M.**, R.J. Kilgour, E.C. <sup>G</sup>Anderson, and S. Magle. Tree cavity availability across forest, park, and residential habitats in a highly urban area. \*Invited presentation in a Contributed Session: 'Urban Wildlife Research in the Chicagoland Area' at the International Urban Wildlife Conference. Chicago, IL.
- 2015 <sup>G</sup>Anderson, E.C., and **J.M. LaMontagne**. Nest site selection of Red-headed Woodpeckers across three spatial scales in an urban environment. Presented at the International Urban Wildlife Conference. Chicago, IL.
- 2015 <sup>\*G</sup>Morris, K., & **J.M. LaMontagne**. Effect of Non-native Cavity Nesting Birds on Red-Headed Woodpeckers. \*Presented as an invited talk in a Contributed Session: 'Urban Wildlife Research in the Chicagoland Area' at the International Urban Wildlife Conference. Chicago, IL.
- 2014 **LaMontagne, J.M.** Synchrony in white spruce mast seeding patterns across three spatial scales. Presented at 3<sup>rd</sup> Science in the Northwoods Conference. Boulder Junction, WI.
- 2014 <sup>\*G</sup>Anderson, E.C., and **J.M. LaMontagne**. Nest site selection of Red-headed Woodpeckers across three spatial scales in an urban environment. Presented at Genomes to Biomes, a joint meeting of the Canadian Society for Ecology & Evolution and the Canadian Society of Zoology. Montreal, Quebec, Canada.\*E. Anderson was awarded an honourable mention for 'best student talk' for this presentation.
- 2014 **LaMontagne, J.M.** and A.E. <sup>U</sup>Grecco. Synchrony in white spruce cone production across three spatial scales. Presented at Genomes to Biomes, a joint meeting of the Canadian Society for Ecology & Evolution and the Canadian Society of Zoology. Montreal, Quebec, Canada.
- 2013 **LaMontagne, J.M.**, R.J. Kilgour, E. <sup>G</sup>Anderson, and S.B. Magle. A comparison of tree cavity availability across three habitat types in a highly urban area. Poster presented at the Ecological Society of America 98<sup>th</sup> Annual Meeting. Minneapolis.
- 2013 <sup>G</sup>Shaughnessy, C.A., E. <sup>G</sup>Anderson, M. <sup>G</sup>Kasparian, **J.M. LaMontagne**, and J.S. Bystriansky. Survival and osmoregulation of an estuarine crab after acute exposure to varying combined pH and salinity stress. Poster presented at the Canadian Society of Zoologists 52nd Annual Meeting. Guelph, Ontario, Canada.
- 2012 <sup>U</sup>Adam, A.E., E. McCauley, and **J.M. LaMontagne**. The offspring size vs. offspring number trade-off and its impact on population dynamics: an experimental approach. Poster presented at the 1<sup>st</sup> Joint Congress on Evolutionary Biology (The American Society of Naturalists, Canadian Society for Ecology & Evolution, European Society for Evolutionary Biology, Society for the Study of Evolution, & Society of Systematic Biologists). Ottawa, Canada.
- 2010 <sup>U</sup>Ruma, A.B., V. <sup>U</sup>Aswathy, D.K. <sup>U</sup>Sebastian, E. <sup>U</sup>Sithampanathan, F. <sup>U</sup>Samin, J.M. <sup>U</sup>Mathew, J. <sup>U</sup>Nair, R. <sup>U</sup>Kalaiyarasi, R. <sup>U</sup>Linta, N. <sup>U</sup>Vijayan, K. <sup>U</sup>Nimisha, P.C. <sup>U</sup>Nithy, R.A. <sup>U</sup>Thomas, R.N. <sup>U</sup>Mayukh, S. <sup>U</sup>Panackal, S. <sup>U</sup>Samuel, S.T. <sup>U</sup>Alexander, U. <sup>U</sup>Sivapragasam, B. Battisti, and **J.M. LaMontagne**. Canary In a Coal Mine. Presented at the Planet Environment Festival: Biodiversity is Life/is our Life. UNESCO in partnership with UNEP. Chittagong, Bangladesh.
- 2008 **LaMontagne, J.M.**, and E. McCauley. Dynamical consequences of manipulating time delays in a predator-prey system. Presented at the Ecological Society of America 93<sup>rd</sup> Annual Meeting. Milwaukee, WI.
- 2008 Fletcher, Q.E., S. Boutin, J.E. Lane, **J.M. LaMontagne**, A.G. McAdam, J.R. Speakman and M.M. Humphries. The functional response of red squirrel hoarding to a mast seed producer. Presented at the Canadian Society for Ecology & Evolution Meeting. Vancouver, BC.

- 2006 **LaMontagne, J.M.** and S. Boutin. Response of a seed predator population to a long-term spruce beetle outbreak in the southwest Yukon. Presented at the 45<sup>th</sup> Annual Meeting of the Canadian Society of Zoologists. Edmonton, Alberta.
- 2006 Tracz, B.V., **J.M. LaMontagne**, E. Bayne, and S. Boutin. Should they stay or should they go? Woodland caribou (*Rangifer tarandus caribou*) response to increased industrial activity. Poster presented at the 11<sup>th</sup> North American Caribou Workshop. Jasper, Alberta.
- 2005 **LaMontagne, J.M.** and S. Boutin. Local-scale spatial variation in temporal patterns of white spruce cone production and potential effects on a seed predator population. Presented at the Ecological Society of America 90<sup>th</sup> Annual Meeting. Montreal, Quebec.
- 2005 **LaMontagne, J.M.** Response of a seed predator population to a long-term spruce beetle outbreak in the southwest Yukon. Presented at the Northern Research Day. Canadian Circumpolar Institute.
- 2005 Kerr, T., M.M. Humphries, **J.M. LaMontagne**, and S. Boutin. Effects of food availability on dispersal and settlement in juvenile red squirrels. Presented at the Ecological Society of America 90<sup>th</sup> Annual Meeting. Montreal, Quebec.
- 2004 Pretzlaw, T., C. Trudeau, M.M. Humphries, **J.M. LaMontagne**, and S. Boutin. Red squirrel (*Tamiasciurus hudsonicus*) feeding on bark beetles (*Dendroctonus rufipennis*) in the Canadian boreal forest: energetic and ecological implications. Presented at the 29<sup>th</sup> Annual Meeting of the Quebec Society for the Study of Animal Behaviour. L'Université de Sherbrooke, Québec.
- 2004 **LaMontagne, J.M.** and S. Boutin. Small-scale spatial variation in habitat quality: implications for populations. Presented at the 43<sup>rd</sup> Annual Meeting of the Canadian Society of Zoologists. Wolfville, Nova Scotia.
- 2003 **LaMontagne, J.M.** and R.L. Irvine. Sage grouse in space: What measure of spatial heterogeneity is most meaningful in assessing population dynamics? Poster presented at the Ecological Society of America 88<sup>th</sup> Annual Meeting. Georgia.
- 2001 **LaMontagne, J.M.**, L.J. Jackson, and R.M.R. Barclay. Habitat selection by Trumpeter Swans in spring migration stopover areas. Poster presented at the Partners in Conservation Conference. Alberta.
- 2000 **LaMontagne, J.M.** Pond selection and use by migrating Trumpeter Swans in Southern Alberta. Presented at the Ecological Society of America 85<sup>th</sup> annual meeting. Snowbird, Utah.
- 2000 Irvine, R.L., **J.M. LaMontagne**, T.B. Logan, B.O. Ma, C.M. Elkin, and E.E. Crone. Spatial patterns of population regulation and population viability in Sage Grouse (*Centrocercus urophasianus* spp.). Presented at the Ecological Society of America 85<sup>th</sup> annual meeting. Snowbird, Utah.
- 1999 **LaMontagne, J.M.** Use of springtime migratory stopping areas by Trumpeter Swans in Southern Alberta. Poster presented at the 17<sup>th</sup> Trumpeter Swan Society Conference. Idaho Falls, Idaho.

**TEACHING** \*new course designed by LaMontagne

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**Graduate Courses**

Research Methods & Applied Biostatistics\* (BIO 406), DePaul University  
 - Spring 2013, Spring 2016, Spring 2018, Winter 2020-Winter 2022

Population Ecology\* (BIO 432), DePaul University  
 - Spring 2014, Spring 2019

Research in Field Biology\* (BIO 489, co-taught), DePaul University  
 - Winter 2013, Winter 2014

Biostatistics\* (HNAS 699, online, PhD course), Rosalind Franklin University of Medicine & Science  
 - Spring 2015, Spring 2016, Spring 2018, Spring 2019

## Undergraduate Courses

Introductory Biology II: Evolution, Ecology, & Diversity (BIO 192), DePaul University  
- Spring 2012, Winter 2013-Winter 2019, Winter 2021-Winter 2024

Ecology (BIO 215), DePaul University  
- Fall 2011-Fall 2013, Fall 2015-Fall 2018, Fall 2020-Fall 2023

Research Methods & Applied Biostatistics\* (BIO 306), DePaul University  
- Spring 2013, Spring 2016, Spring 2018, Winter 2020-Winter 2022

Field Studies in Marine & Estuarine Biology (BIO 318, co-taught), DePaul University  
- Winter 2013

Population Ecology\* (BIO 332), DePaul University  
- Spring 2014, Spring 2019

Research in Field Biology\* (BIO 389, co-taught), DePaul University  
- Winter 2013, Winter 2014

Quantitative Biology I (BIOL 315, co-taught), University of Calgary  
- Winter 2008, Winter 2011

Human Health & Disease\* (BIO 101), Asian University for Women  
- Fall 2009

Environmental Impacts of Dams\* (BIO 102), Asian University for Women  
- Spring 2010

## STUDENT RESEARCH MENTORSHIP

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### Graduate Student Master's Thesis Committees (*Project titles included for students I supervise*)

2024-present Member, Patrycja Aksamit

2023-present Advisor, Jesse Grooms, *Spatial patterns of mast seeding, small mammal and avian dynamics across NEON sites.*

2022-present Advisor, Kiley Chernicky, *Interspecific variation in recruitment dynamics in white spruce-balsam fir forest stands.*

2022-present Advisor, Adrianna Yoder, *Habitat selection and seasonal use of tree cavities by red-headed woodpeckers.*

2019-present Member, Mary Jones

2021-2023 Member, Zoe Ryan

2020-2023 Advisor, Sofia Rivera, *Patterns and drivers of tick and tick-borne pathogen dynamics at subcontinental scales.* (combined BS/MS program)

2020-2023 Member, Olivia LaMore

2020-2022 Advisor, Teddy (Teodora) Stoycheva, *Warming and elevated CO<sub>2</sub> affect cone and seed characteristics in two conifer species.*

2020-2022 Advisor, David Hohl, *Changes over time in tree-cavity availability across habitats in a highly urban area.*

2021-2022 Member, César Fuentes

2017-2022 Member, Joe Forberg

2017-2021 Advisor, Maria Jazmin Rios, *Spatial-temporal patterns and drivers of brown rat population dynamics.*

2011-2021 Member, Kate Merva (M.A.)

2018-2020 Advisor, Abigail Leeper, *Mast-seeding dynamics and fate of white spruce during an Eastern spruce budworm outbreak.*

2018-2020 Member, Kim Boyle

2017-2019 Advisor, Kayce Miller, *Effects of urbanization on neophobia and problem solving behavior in songbirds.*

2017-2019 Member, Roberto Cucalon



- 2015-2018 Advisor, Jesse Hacker, *Urbanization influences neophobic behavior and problem-solving performance in animals.*
- 2015-2017 Member, Jordan Johnson
- 2013-2016 Advisor, Kattie Morris, *Population dynamics of tree-cavity nesters.*
- 2013-2016 Advisor, Ryan Wenkus (Bovyn), *Offspring size-number tradeoffs and food quality feedbacks impact population dynamics in a Daphnia-algae system.*
- 2012-2015 Member, Kelly Bice
- 2012-2014 Member, Seth Contreras (M.A.)
- 2012-2014 Advisor, Elsa Anderson, *Nest-site selection, use, and reuse by red-headed woodpeckers in Cook County, Illinois, USA.*
- 2012-2013 Member, Zachary Pekar (M.A.)

#### **Graduate Student Master's Thesis Committees (External)**

- 2023-present Committee member, Kelsey Fletterick, MS student, Department of Forestry, Fire, Rangeland Management, Cal-Poly Humboldt.

#### **Graduate Student Doctoral Dissertation Committees**

- 2021-present Member, Ivy Widick, PhD student, University of Wisconsin-Madison.
- 2020-present Member, Emily Baumgartner, PhD student, University of Calgary.
- 2020-2022 Member, Husile Bai, PhD student, University of Utah.
- 2015-2018 Member, W. Beckett Hills, PhD student, University of Wisconsin-Madison.

#### **Undergraduate Research Supervision (at DePaul University unless otherwise indicated)**

- 2023-present Matt Villalta, *Food availability in red-headed woodpecker habitats.* DePaul Mentored Undergraduate Science Experience (MUSE) fellowship, Independent study.
- 2023-present Emma Blair, *Community dynamics of mast seeding.* Research assistant, MUSE fellowship.
- 2022-present Riley Adams, *Comparing visual field methods for quantifying tree reproduction for ten tree species.* NSF Research Experience for Undergraduates (REU) student participant, Independent study (student at Roosevelt University).
- 2022-present Dominic Radcliffe-Hines, *Mast seeding dynamics in the southern boreal ecotone.* Research assistant, Independent study.
- 2023 Lorren Politano, *C:N ratios of black spruce cones and seeds under warming and elevated CO<sub>2</sub>.* Co-supervisor/collaborator for Department of Energy, Science Undergraduate Laboratory Internship (SULI) based at Oak Ridge National Laboratory (student at University of Tennessee).
- 2020-2022 Valerie Tafoya, *Intraspecific variation in behaviour across levels of urbanization.* Independent study, also home-institution mentor for the UC-Santa Cruz Doris Duke Conservation Program.
- 2021-2022 Jason Hebblethwaite, *Community dynamics of mast seeding.* Research assistant.
- 2019-2021 Cristian Corona, *Differential mortality of white spruce and balsam fir following a spruce budworm outbreak.* NSF REU student participant, Independent study.
- 2020 Sofia Rivera, *Community-level variation in mast seeding patterns.* NSF REU Student participant.
- 2019-2020 Audreana Van Whye, *Tree reproductive patterns.* Research assistant.
- 2019-2020 Zoe Ryan, *Tree reproductive patterns.* Research assistant.
- 2019 Bairbre Connolly, *Raccoon group sizes across seasons and an urbanization gradient.* Independent study.
- 2017-2019 Jillian Sterman, *Community-level synchrony in seed production by southern boreal forest tree species.* Research assistant, Independent study.
- 2017-2019 Jessica Barton, *Population dynamics of tree-cavity nesting birds in urban & rural areas.* Research assistant, Independent study.

- 2018 Jessica Harris, *Avian cognition across an urbanization gradient*. Research assistant, Independent study.
- 2018 Samantha Evans, *Characteristics of mass reproduction event across species*. Research assistant, Independent study.
- 2018 Hannah Kemp, *Mast seeding patterns of white spruce*. Research assistant.
- 2018 Tim Walsh, *Tree seed reproductive patterns*. Research assistant.
- 2018 Gabriella Gasparani, *Tree seed reproductive patterns*. Research assistant.
- 2017-2018 Alima Sajwani, *Soil nutrient levels and reproductive patterns*. Research assistant.
- 2015-2017 Michael Wade, *Tree growth patterns of two white spruce populations*. Independent study.
- 2014-2017 Abigail Leeper, *Variation in acorn availability in red-headed woodpecker home ranges; Factors impacting mast seeding dynamics of white spruce; Tree cavity availability in cemeteries & city parks*. Honor's thesis, Research assistant, Independent study.
- 2014-2015 Heather Anderson, *Life-history patterns and impacts on *Daphnia pulex* population dynamics*. Research assistant.
- 2013-2015 Michael Lordon, *Insect diversity across urban habitat types; Species diversity of clam communities and predation-levels by moon snails; Tree cavity availability in cemeteries & city parks*. Honor's thesis, Research assistant, Independent study.
- 2012-2015 Allison Grecco, *Mast seeding patterns in white spruce; Tree cavity availability in cemeteries & city parks; Predation by moon snails on clams*. Research assistant, Independent study.
- 2013-2014 Dimitar Zlatev, *Species diversity of clam communities and predation-levels by moon snails*. Independent study.
- 2013 Derek Moore, *Avian diversity across a gradient of urbanization*. Independent study.
- 2012-2013 Heather Rider, *Daphnia pulex population dynamics*. Research assistant, Independent study.
- 2012 Maria Chavez, *Daphnia pulex population dynamics*. Research assistant.
- 2012 Gina Trilla, *Avian diversity across a gradient of urbanization*. Independent study.
- 2012 Alexander Adam, *Daphnia pulex population dynamics*. Research assistant.
- 2010 F. Samin, V. Aswathy, D Sebastian, E. Sithamparanathan, F. Samin, J.M. Mathew, J. Nair, R. Kalaiyarasi, R. Linta, N. Vijayan, K. Nimisha, P. Nithy, R.A. Thomas, R.N. Mayukh, S. Panackal, S. Samuel, S.T. Alexander, U. Sivapragasam, *Avian diversity across habitat types in south Asia*. Summer research program. Asian University for Women.
- 2008-2009 John Fearn, *Food quality and maternal effects in *Daphnia pulex**. Undergraduate thesis. University of Calgary.

## PROFESSIONAL ACTIVITIES

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### Associate Editor

2020-present Journal of Ecology

### Manuscript Reviewer

American Journal of Botany, Annals of Botany, Aquatic Botany, Canadian Journal of Forest Research, Current Biology, Ecological Monographs, Ecological Research, Ecology, Ecology & Evolution, Ecosphere, Forest Ecology & Management, Global Change Biology, iForest, Journal of Animal Ecology, Journal of Ecology, Journal of Forest Research, Journal of Mammalogy, Journal of Vegetation Science, National Center for Case Study Teaching in Science, Nature Climate Change, Nature Plants, New Phytologist, Oecologia, Oikos, Philosophical Transactions of the Royal Society, Physiological and Biochemical Zoology, PLOS One, Population Ecology, Proceedings of the Royal Society B, Scandinavian Journal of Forest Research, Southwestern Naturalist, Urban Ecosystems, Wetlands, Wilson Journal of Ornithology

### **Grant Reviewer / Panel Member**

- 2023-present Co-Chair, Discovery Grant Selection Committee and Evaluation Group, Evolution and Ecology (1503), Natural Sciences and Engineering Research Council (NSERC), Canada
- 2022-present Discovery Grant Selection Committee and Evaluation Group, Evolution and Ecology (1503), International Member. Natural Sciences and Engineering Research Council (NSERC), Canada (3-year term; 2023-2025 competitions)
- 2023 Ad-hoc reviewer, Swiss National Science Foundation (SNFS), Switzerland
- 2023 Site Review Panelist & Panel Chair - Long-Term Ecological Research (LTER), National Science Foundation (NSF), USA
- 2023 Ad-hoc reviewer, National Science Centre (Polish: Narodowe Centrum Nauki; NCN), Poland
- 2022 Grant Review Panelist, National Science Foundation (NSF), USA
- 2022 Ad-hoc reviewer, Natural Sciences & Engineering Research Council (NSERC), Canada
- 2021 Ad-hoc reviewer, National Science Foundation (NSF), USA
- 2021 Grant Review Panelist, National Science Foundation (NSF), USA
- 2021 Ad-hoc reviewer, Natural Environment Research Council (NERC), UK
- 2021 Ad-hoc reviewer, National Science Centre (Polish: Narodowe Centrum Nauki; NCN), Poland
- 2020 Ad-hoc reviewer, National Science Foundation (NSF), USA
- 2020 Grant Review Panelist, National Science Foundation (NSF), USA
- 2020 Ad-hoc reviewer, Natural Sciences & Engineering Research Council (NSERC), Canada
- 2019 Ad-hoc reviewer, National Science Centre (Polish: Narodowe Centrum Nauki; NCN), Poland
- 2019 Ad-hoc reviewer, National Science Foundation (NSF), USA
- 2018 Ad-hoc reviewer, National Science Foundation (NSF), USA
- 2018 Grant Review Panelist, National Science Foundation (NSF), USA
- 2008 Ad-hoc reviewer, National Science Foundation (NSF), USA

### **Other Professional Activities**

- 2022 Expert Witness, Canadian House of Commons Standing Committee on Science and Research. Study on, 'Top talent, research and innovation'.
- 2019 Faculty Mentor, Graduate student / Post-doc mixer, Canadian Society for Ecology & Evolution (CSEE) Annual Meeting
- 2018 Faculty Mentor, Eco-Evo-Eats, Canadian Society for Ecology & Evolution (CSEE) Annual Meeting
- 2011-2017 Judge, Student Presentation Awards, Canadian Society for Ecology & Evolution Conference (CSEE), (2011, 2012, 2014, 2016, 2017)
- 2016 Consulted for expertise in data analysis by DePaul College of Nursing faculty members, 03/16
- 2015 Judge, Student Presentation Awards, Zoology section, Illinois State Academy of Science 107<sup>th</sup> Annual meeting.
- 2014 IT Captain, Science in the Northwoods Conference. Boulder Junction, WI
- 2008, 2013 Judge, Graduate Presentation Awards, Ecological Society of America (ESA) Conference
- 2012, 2013 Judge, Student Presentation Awards, Chicago Area Undergraduate Research Symposium (CAURS)
- 2004 Consulted for information on localized spruce beetle outbreak in southwestern Yukon for the 2004 Yukon Forest Health Report, by Rod Garbutt, Pacific Forestry Centre, Victoria, British Columbia, Canada
- 1998 Volunteer, North American Lake Management Society (NALMS) Conference

## **PROFESSIONAL DEVELOPMENT / WORKSHOPS**

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2023	Responsible Conduct of Research Certificate, CITI Program, 09/2023
2023	Environmental Systems Science PI meeting, Department of Energy, 05/2023
2023	Structural Equation Modelling for Ecologists and Evolutionary Biologists, 03/2023
2023	Mid-Career Advancement PI meeting, National Science Foundation, 01/2023
2021	NCEAS-COMPASS Spring Foundational SciComm Workshop, 05/2021
2020	DePaul Online Teaching Series Training Program, DePaul University, 12/2020
2019	Conservation Genetics Workshop (ConGen 2019), Flathead Lake Biological Station, University of Montana, 09/2019
2012	Case Study Teaching in Science Workshop (40 Hours), The National Center for Case Study Teaching in Science. Buffalo, NY. May 2012
2011	FITS workshop, D2L Gradebook, DePaul University
2009-2010	Active learning, Student-focused learning in the classroom – multiple workshops Asian University for Women, led by Dr. Michelle Zjhra
2002-2005	University Teaching Program Participant, University Teaching Services, University of Alberta (attended > 40 hours of teaching skills seminars and workshops)

## **PROFESSIONAL MEMBERSHIPS**

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- Ecological Society of America (since 2005)
- Canadian Society for Ecology & Evolution (since 2011; lifetime)
- British Ecological Society (since 2019)
- International Boreal Forest Research Association (since 2022)

## **DIVERSITY, EQUITY, AND INCLUSION (DEI)**

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### **DEI Committees, Initiatives, and Mentoring**

2019-present	NSF Research Experience for Undergraduates (REU) mentor
2023	Panelist. Career Growth Through Internships and Fellowships: Unlocking Opportunities in Ecology. Career Central session. Ecological Society of America annual meeting.
2023	Mentor, ESA Early Career Mentoring Program, Ecological Society of America.
2021	Facilitator, 'Picture A Scientist' film discussion/meetup, Canadian Society for Ecology & Evolution (CSEE) Annual Meeting
2021	Diversity, Equity, and Inclusion Committee, Department of Biological Sciences, DePaul University
2010	Student Summer Research Program Committee Member, Project Lead and Mentor, Asian University for Women
2009-2010	Founder, Moderator & Chair of TALE, a weekly seminar series, Asian University for Women

### **DEI Workshops / Courses / Trainings**

2022-present	Diversity, Equity, and Inclusion workshop participant, Department of Biological Sciences, DePaul University
2024	Balanced, broad, responsible: A practical guide for research evaluators, DORA training, 01/2024
2023	Unconscious bias course certificate, Project Management Institute, Inc., 01/2023
2022	Bias in the review process. Natural Sciences & Engineering Research Council, Fall 2022.
2021	Unlearning Racism in the Geosciences (URGE) Pod participant, 01-05/2021

2020 Indigenous Canada, Coursera 12-week online course - certificate achieved, Fall 2020

## **SERVICE**

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### **University service**

2022-present Committee on Research Policy (CoRP), DePaul University  
2020-present Faculty Council Representative, DePaul University  
2020-present Institutional Animal Care and Use Committee (IACUC), DePaul University  
2016-present DePaul Ecology, Evolution, and Physiology (DEEP) Student Club Advisor, Office of Student Involvement, DePaul University  
2023 Grant writing workshop speaker, Topic: Federal grant review panels, University Research Services, DePaul University  
2020-2021 Scientific Inquiry Domain Committee, DePaul University  
2019 Created revision recommendations for the University Vehicle Policy at the request of the Faculty Council President, DePaul University  
2018 Drafted Field Research Safety Checklist and Guidelines for AVP Research, DePaul University  
2012-2018 Scientific Inquiry Domain Committee, DePaul University  
2015 Climate Change Science and Policy Minor - Curriculum Design Session Participant, DePaul University  
2010 Faculty Advisor, Asian University for Women  
2009-2010 Curriculum Development Committee, Asian University for Women  
2009-2010 Assessment / Grading Committee, Asian University for Women  
2009-2010 Faculty Hiring Committee, Asian University for Women  
2009-2010 Student Issues Committee, Asian University for Women  
2009-2010 International Academic Panel visit Co-chair, Asian University for Women  
2009 Course Timetabling - constructed the Undergraduate Academic Schedule, Asian University for Women  
2009 Academic Showcase Co-chair, Asian University for Women  
2009 Drafted University Policy for Academic Misconduct: Plagiarism, Asian University for Women  
2003-2005 Grant Selection Committee Member, Graduate Students' Association, University of Alberta  
2001-2005 Graduate Students' Association Council Member, University of Alberta

### **College service**

2019-present STEM Center Advisory Committee, College of Science & Health  
2022 Promotion Committee - Invited Member, Department of Health Sciences, DePaul University  
2020-2022 Co-chair, Strategic Planning - Research Implementation Committee, College of Science & Health  
2021 Going up for tenure panel (invited speaker), College of Science & Health, May 2021  
2014-2021 Reviewer for 'DePaul Discoveries', College of Science and Health Undergraduate Research Journal (2014-2016, 2021)  
2020 Promotion Committee - Invited Member, Department of Environmental Science & Studies, DePaul University  
2019-2020 Strategic Planning Research Committee, College of Science & Health.  
2019 CSH Strategic Planning Participant, College of Science & Health, June 2019  
2018 Representative for Biological Sciences at Admitted Freshman Preview Day, College of Science & Health. April 2018  
2018 Liaison in establishing a relationship between CSH and the Lincoln Park Zoo, which involved the signing of a MOU between the institutions.

- 2016 Pre-screened applicants for the CSH Dean's Undergraduate Fellowship for the LP Zoo's Urban Wildlife Institute, College of Science and Health DePaul University.
- 2013-2014 Secondary Education-Biology (M.Ed) Liaison (Cross-college service), DePaul University
- 2012 Invited Speaker at New Faculty Seminar 'Tales from the front lines', College of Science and Health, DePaul University (November 2012)

**Departmental service**

- 2023-present Chair, Building and Equipment Committee, Department of Biological Sciences, DePaul University
- 2022-present Department Personnel Subcommittee, Department of Biological Sciences, DePaul University
- 2020-present Research Committee, Department of Biological Sciences, DePaul University
- 2018-present Personnel Committee, Department of Biological Sciences, DePaul University
- 2016-present Departmental Vehicles, Department of Biological Sciences, DePaul University
- 2011-present Undergraduate Academic Advising, DePaul University
- 2022 Building and Equipment Committee, Department of Biological Sciences, DePaul University
- 2022 Scholarship Committee, Department of Biological Sciences, DePaul University
- 2012-2022 Graduate Program Committee, Department of Biological Sciences, DePaul University
- 2021 Diversity, Equity, and Inclusion Committee, Department of Biological Sciences, DePaul University
- 2016-2018 Chair - Concentrations Committee, Department of Biological Sciences, DePaul University
- 2016-2018 Departmental Marketing Committee, Department of Biological Sciences, DePaul University
- 2016 Retreat Planning Committee, Department of Biological Sciences, DePaul University
- 2012-2016 Equipment Committee, Department of Biological Sciences, DePaul University
- 2012-2014 Proposal writing for Departmental vehicles (written to SRAC)
- 2013 Major / Minor Fair - Departmental Representative, Department of Biological Sciences, DePaul University
- 2012 Biological Statistics Working group, Department of Biological Sciences, DePaul University
- 2012 Field Biology Working group, Department of Biological Sciences, DePaul University
- 2012 Inaugural Darwin Day co-organizer, Department of Biological Sciences, DePaul University
- 2012 Created student employee timesheets implemented for Departmental use, Department of Biological Sciences, DePaul University
- 2011-2012 Departmental faculty meeting archivist (minute taker), Department of Biological Sciences, DePaul University
- 2009-2010 Science Club, Faculty Advisor, Integrated Sciences, Asian University for Women
- 2003-2005 Biological Graduate Students' Association Executive Member, Department of Biological Sciences, University of Alberta
- 2005 Graduate Student Research Days Organising Committee, Department of Biological Sciences, University of Alberta
- 2004 Candidacy Exam Workshop Organiser, Department of Biological Sciences, University of Alberta
- 2004 New Graduate Student Orientation Session Leader, Department of Biological Sciences, University of Alberta
- 2003-2004 New Graduate Student Mentor, Department of Biological Sciences, University of Alberta
- 2003 Graduate Student Retreat Organising Committee Member & Session Leader, Department of Biological Sciences, University of Alberta

## **MEDIA COVERAGE, SCIENCE COMMUNICATION, & COMMUNITY SERVICE**

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- 2024 *Interviewed for article.* "In This Wacky Winter, Seed Pods Instead of Snow Are Blanketing the Ground", WTTW Chicago, article by Patty Wetli. February 2024. [Link](#)
- 2023 *Interviewed for article.* "The Lingering Mysteries of the Mast Year". Brooklyn Botanic Garden, article by Ellie Shechet. November 2023. [Link](#)
- 2023 *Interviewed for article.* "When birds gorge on cicadas, caterpillars go unchecked and chomp their way through oak forests". Science, article by Erik Stokstad. October 2023. [Link](#)
- 2023 *Interviewed for article.* "Squirrels Have Gone Wild' Celebrating An Acorn Surplus". Block Club Chicago, article by Kayleigh Padar. September 2023. [Link](#)
- 2023 *Interviewed for article.* "Acorns galore: 'Mast year' for oak trees means massive seed production across Chicago". Chicago Sun-Times, article by Cindy Hernandez. September 2023. [Link](#)
- 2023 *Radio interview.* "The reason Chicago's cottonwood tree fluff is in abundance this year", WGN Radio, The Lisa Dent Show. June 2023. [Link](#)
- 2023 *Radio interview.* "Chicago's cottonwood problem: What's up with the fluffy stuff?", WBEZ Radio, Reset with Sasha-Ann Simons, Lynnea Domienik. June 2023. [Link](#)
- 2023 *Interviewed for article.* "What's Up With All The White Fluff? Why Cottonwood Trees Are Seeding Like Crazy This Year", Block Club Chicago, article by Kayleigh Padar. June 2023. [Link](#)
- 2023 *Interviewed for article.* "What the Fluff? It's a 'Holy Cow' Year for Cottonwood, and Here's Why", WTTW Chicago, article by Patty Wetli. June 2023. [Link](#)
- 2022 *Article.* "Illinois Researchers to Know' features DePaul faculty in ecology, environmental science, and cybersecurity", by Kristin Claes Mathews, NewsLine. December 2022. [Link](#)
- 2022 *Announcement.* Illinois "Researchers to Know - 2022" by the Illinois Science & Technology Coalition. November 2022. [Link](#)
- 2022 *Feature article.* "Ecologist's research sprouts in new directions with two federal grants", by Scott Butterworth, NewsLine. November 2022. [Link](#)
- 2022 *Science Walk Leader* for Science Communication with the public, Huron Mountain Wildlife Foundation, Huron Mountains, MI, August 2022.
- 2022 *Press release.* "Department of Energy announces \$4.7 million for research and development partnership pilots", Grant and Award Announcement, DOE/US Department of Energy. July 2022. [Link](#)
- 2022 *Interviewed for article.* "First woman to sail Antarctica was a DePaul biological sciences professor", by Brittan Nannenga and Kristin Claes Mathews. March 2022. [Link](#)
- 2022 *Press release.* "Cities are driving evolutionary change in the cosmopolitan white clover, a new global study finds", by Patrick Lejtenyi. March 2022. [Link](#)
- 2022 *Press release.* "Evolution in Chicago's Clover: Researchers help chart global human impact on nature", by Kristin Claes Mathews. March 2022. [Link](#)
- 2021 *Science Magazine.* Interviewed for article "Why are trees dropping so many nuts? Climate may drive erratic masting" by Elizabeth Pennisi. November 2021. [Link](#)
- 2021 *Radio interview.* 91.7 KAXE Morning Show – Phenology with host John Latimer, Grand Rapids, MN. September 2021. [Link](#)
- 2021 *Invited guest expert for a live YouTube show.* Saturnae: Orbital Ice Cream, Season 2, Episode 6 – Honey Cone. Creators: JaNae Contag and Ryan Black. September 2021.
- 2021 *Press release.* For Larger, Older Trees, It's All Downhill from Here. August 2021. [Link](#)

- 2021 *Feature article*. "Jalene LaMontagne tapped to lead NSF-funded long-term ecological research team", by Kristin Claes Mathews, NewsLine. March 2021. [Link](#)
- 2021 *Press release*. Climate impacts drive east-west divide in forest seed production. February 2021. [Link](#)
- 2021 *Press release*. 2021 LTER Synthesis Awards: Reproduction and Resilience. National Science Foundation – Long-Term Ecological Research Network Office. February 2021. [Link](#)
- 2020 Cover story and Interview for an article highlighting research in the fall issue of *Scientia*, the College of Science & Health alumni publication. Fall 2020. [Link](#)
- 2020 *Research Focus* "The Highs and Lows of Cone Production in White Spruce". Invited science communication article for the University of Minnesota-Cloquet Forestry Center. [Link](#)
- 2020 *Press article*. "Cómo la Ciencia del Clima Está Expanding la Escala de la Investigación Ecológica" in Eos, Science News by the American Geophysical Union (AGU). An authorized translation of an Eos article by Kate Wheeling. July 2020. [Link](#)
- 2020 Research highlighted in *Inside Batelle - National Ecological Observatory Network (NEON) Spotlight*. June 2020. [Link](#)
- 2020 *DePaul NewsLine article. Feature article*. support from the NSF", by Kristin Claes Mathews, NewsLine. May 2020. [Link](#)
- 2020 *Press Release*: "Study: Ecological dipoles reveal where trees may reproduce across North America" by Kristin Mathews. May 2020. [Link](#)
- 2020 *Nature Ecology & Evolution* - invited blog post "Continental Patterns of Plant Reproduction", May 2020. [Link](#)
- 2020 *Press Release*: "Ecological dipoles: A new approach to tracking plants, wildlife" by Kristin Mathews. April 2020. [Link](#)
- 2020 *Press article*. "How Climate Science Is Expanding the Scale of Ecological Research" in Eos, Science News by the American Geophysical Union (AGU) by Kate Wheeling. March 2020. [Link](#)
- 2019 Interviewed for *Student Spotlight* article "Meet Cristian Corona: NSF researcher and future conservationist" by Carolyn Brinckwirth and Jessica Peterson, NewsLine. November 2019.
- 2019 Interviewed for *The Shape of the World*, by host Jill Riddell: A Podcast About Cities, Nature & People. Episode 14: Booms & Busts – Natural cycles that run the world. <https://shapeoftheworldshow.com/> June 2019
- 2018 Interviewed for a researcher profile in *Kemp's Point*, the newsletter for the Kemp Natural Resources Field Station Newsletter, Volume 19, Number 2, Fall 2018
- 2018 *Science Walk Leader* for Science Communication with the public, Huron Mountain Wildlife Foundation, Huron Mountains, MI, July 2018
- 2018 Interviewed for cover article "Exercise in Cleverness: Seed Production in White Spruce" by Jill Riddell, *Huron Mountain Wildlife Foundation Newsletter*, Winter 2017/2018
- 2018 Interviewed for / Consulted on for MinuteEarth science communication video on mast seeding "When trees go nuts". [Link](#)
- 2017 Interviewed for *DePaulia* article, "Chicago Marches For Science, Climate Change", by Cody Corral. April 2017
- 2017 Career Week presentations, John Middleton Elementary School, Skokie, IL
- 2015 NBC News article and television clip on white spruce research. Rhinelander, WI, September 2015
- 2011, 2013 Science Fair Judge, Lincoln Park High School, Chicago, IL
- 2007 Interviewed for 'Nature News, News in Brief' article "Bumper cone crop", by Emma Marris. 21 Dec. 2007
- 2005 Expert's Day Participant, Nellie McClung Girls' Junior High, Edmonton
- 2005 Edmonton Regional Science Fair Judge, Edmonton



2003 Interviewed for newspaper article: Swan Lake in the Rockies, by Carol Picard. Rocky Mountain Outlook, Canmore, Alberta. 10 Apr. 2003

2003 Science Fair Judge, Katherine Therrien Elementary School, Edmonton