

Jonathan Newman

Professor and Vice President: Research

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Current Position

As the *Vice President of Research*, I am responsible for providing strategic leadership and oversight of research and innovation at Wilfrid Laurier University. My role involves fostering external and government research linkages, which encompass federal, provincial, local, and corporate partnerships. I lead the identification of key international research initiatives, strengthen government connections, and align efforts with Canadian research priorities. I oversee 23 Centres and Institutes, and I provide leadership for the Office of Research Services. Collaborating with other executive leadership team members, I focus on identifying pivotal policy and funding issues that are strategically important to Laurier, developing a comprehensive approach to tackle these challenges. I assess and implement systems and structures that enhance the oversight and productive functioning of our research portfolio, including strategic and operational measurement, evaluation, and reporting. Additionally, I ensure compliance with all legal and sponsor requirements, emphasizing research integrity and financial accountability. As the institutional lead, I also drive innovation and entrepreneurship activities across our teaching, research, and service initiatives. With three campuses in Waterloo, Brantford, and Milton, as well as research facilities in Yellowknife, I proudly support our community of approximately 20,000 undergraduates, 2,000 graduate students, and 550 faculty members.

Degrees

- 1990 PhD in Ecology, Evolution and Behavior, [University at Albany](#), State University of New York
- 2000 Postgraduate Diploma (with *distinction*) in Learning and Teaching in Higher Education, [University of Oxford](#)
- 1999 MA (*Honorary Degree*), [University of Oxford](#)
- 1985 BA in Biology, minor in English, [University at Albany](#), State University of New York

Other Academic Training

- 2025 IMS 100: Incident Management System, [Emergency Management Ontario](#)
- 2023 Introduction to Generative AI, [Google Cloud](#)
- 2022 Strategic Thinking for the CXO, [Judge Business School](#), [University of Cambridge](#)
- 2021 Four Seasons of Reconciliation, [First Nations University of Canada](#)
- 2020 Indigenous Canada, [Faculty of Native Studies](#), [University of Alberta](#)
- 2017 Advanced Leadership Development in Higher Education, [Academic Impressions](#)
- 2016 Advanced Development for Deans, [Council for Advancement and Support of Education](#)
- 2015 Development for Deans, [Council for Advancement and Support of Education](#)
- 2015 Senior University Administrators Course, [Centre for Higher Education Research and Development](#), [University of Manitoba](#)

Academic Appointments

Wilfrid Laurier University (2019–)

2019– Professor, Department of Biology

University of Guelph (2004–19)

2015–2019 Professor, Department of Integrative Biology
2008–2015 Professor, School of Environmental Sciences
2007–2008 Professor, Department of Environmental Biology
2004–2007 Associate Professor, Department of Environmental Biology

University of Oxford (1990–94, 1999–04)

1999–2004 University Lecturer,¹ Department of Zoology
1999–2004 Tutorial Fellow, St. Peter's College
1990–1994 Postdoctoral Fellow, Department of Zoology

Southern Illinois University (1994–99)

1994–1999 Assistant Professor, Department of Zoology

Leadership Appointments

2019–2029 Vice President: Research, Wilfrid Laurier University
2015–2019 Dean, College of Biological Science, University of Guelph
2012–2013 Interim Director, University Arboretum, University of Guelph
2009–2015 Founding Director, School of Environmental Sciences, University of Guelph
2008–2009 Chair, Department of Environmental Biology, University of Guelph
1999–2004 Director, Krebs Field Station, University of Oxford

Editorial Appointments

2023– Co-Editor, *Philosophy, Theory, and Practice in Biology*. Diamond Open Access.
2021–2022 Guest Editor, [special issue](#) of *Journal of Fungi*
2021–2023 Associate Editor, *Frontiers in Conservation Sciences*
2014–2017 Editorial Board Member, *Global Change Biology*
2006–2015 Associate Editor, *Journal of Animal Ecology*
2005–2015 Associate Editor, *Journal of Ecology*
2008–2011 Editorial Board Member, *Global Change Biology*
1998–2005 Editorial Board Member, *Behavioral Ecology*

Governance Appointments

External Organizations

2025– Co-Chair, Mental Health Crisis Response Steering Committee, [Ontario Ministry of the Solicitor General](#)
2024– Member, Board of Directors, [Community-Based Research Canada](#). Committee Service: Executive, Recruitment, Fundraising (Chair 2025–)
2024– [Ashoka Change Champion](#)
2024– Member, Board of Directors, [Global Water Futures Observatory](#)
2021–2025 Member, Board of Directors, [Alliance of Canadian Comprehensive Research Universities](#)
2020– Representative, [Digital Research Alliance of Canada](#)
2019– Member, Ontario Council on University Research, [Council of Ontario Universities](#). Executive Committee Member (2024–)
2019–2026 Canadian [Social Sciences and Humanities Research Council](#) Leader
2019– Member, Board of Directors, [G. Magnotta Foundation for Vector-Borne Diseases](#)

¹This rank is no longer in use. It was the equivalent to an assistant/associate professor in North America.

- 2019–2025 Member, Board of Directors, [Ontario Water Consortium](#)
 2020–2022 Representative, [Compute Canada](#)
 2019–2024 Member, Board of Directors, [SOSCIP Smart Computing for Innovation](#)
 2019–2024 Member, Board of Directors, [Accelerator Centre](#), Waterloo, Ontario
 2013–2019 [Academic Colleague](#), Council of Ontario Universities. Co-Chair: 2017–2019, Council Executive Committee: 2017–2019

Internal Organizations

- 2019–2029 Member, Senate, Wilfrid Laurier University. Committee Service: Executive & Finance, Promotion & Tenure, *Chair* Research & Publications
 2017–2019 Member, Board of Directors, [Art Gallery of Guelph](#). Chair: 2018–19
 2017–2019 Member, Board of Directors, [Biodiversity Institute of Ontario](#), University of Guelph
 2013–2016 Member, Board of Governors, University of Guelph. Committee Service: Physical Resources and Property
 2008–2019 Member, Senate, University of Guelph. Committee Service: Planning and Priorities, Quality Assurance, Board of Undergraduate Studies, By-laws
 1999–2004 Member, Governing Body, [St. Peter's College](#), University of Oxford
 1999–2004 Member, Congregation, University of Oxford
 1997–1998 Member, Senate, Southern Illinois University. Committee Service: Governance

Honours & Awards

- 2019–2025 Adjunct Professor, Department of Integrative Biology, University of Guelph
 2016 Fellow of the Royal Entomological Society, St Albans, UK
 2015 Fellow of the Royal Society of Biology, London, UK
 2011 Alumni Association Award for Excellence in Science and Technology, University at Albany, State University of New York
 2009–2019 Adjunct Professor, Department of Philosophy, University of Guelph
 2007–2021 Adjunct Professor, Department of Biology, University at Albany, State University of New York
 2006–2008 Adjunct Professor, Department of Zoology, Southern Illinois University
 1999–2004 Cephalosporin Fellow in Biology, St. Peter's College, University of Oxford
 1997 Core Curriculum Outstanding Faculty Member, Southern Illinois University
 1991–1994 E.P.A. Cephalosporin Junior Research Fellow, Linacre College, University of Oxford
 1986–1987 Henry J Reilly Memorial Graduate Fellow, US Army Reserve Officers Association
 1986 Albert N Husted Graduate Fellow, University at Albany, State University of New York Alumni Association

Areas of Research Specialization

Grassland Ecology • Climate Change Biology • Invasive Species Ecology • Entomological Ecology • Plant–Fungal Interactions • Mathematical Modelling • Environmental Ethics

Professional Memberships

American Philosophical Association • British Ecological Society • Canadian Society of Ecology & Evolution • Ecological Society of America • Ecological Society of Japan • Royal Society of Biology • Royal Entomological Society

Publications

 <http://orcid.org/0000-0003-3155-4084>

Numerical summary

Books (authored)	2
Books (edited)	2
Edited journal special issues	1
Book chapters	16
Journal articles	111
Book reviews	12
Abstract & non-refereed	4
Data archives	16
Other publications	4

Books

- Hager, H. A., Gibson, D. J., & Newman, J. A. (Eds.). (2026). *Routledge handbook of grasslands*. Routledge Press.
- Gibson, D. J., & Newman, J. A. (Eds.). (2019a). *Grasslands and climate change*. Cambridge University Press.
- Newman, J. A., Varner, G., & Linqvist, S. (2017). *Defending biodiversity: Environmental science and ethics*. Cambridge University Press.
- Newman, J., Anand, M., Henry, H., Hunt, S., & Gedalof, Z. (2011). *Climate change biology*. CABI Publishing.

Edited Special Issues

- Newman, J. A., & Johnson, L. (Eds.). (2024). *Fungal Endophytes of Grasses*, 314. https://www.mdpi.com/journal/jof/special_issues/endophytes_grasses

Book Chapters

- Gibson, D. J., Newman, J. A., & Hager, H. A. (2026). Saving our shared heritage: Priorities for grassland conservation and management. In H. A. Hager, D. J. Gibson, & J. A. Newman (Eds.), *Routledge handbook of grasslands*. Routledge.
- Newman, J. A. (2026a). Cultivating resilience: Grassland agronomy in a changing climate. In H. A. Hager, D. J. Gibson, & J. A. Newman (Eds.), *Routledge handbook of grasslands*. Routledge.
- Newman, J. A. (2026b). Grasslands at the crossroads: Integrating science, culture, and sustainability. In H. A. Hager, D. J. Gibson, & J. A. Newman (Eds.), *Routledge handbook of grasslands*. Routledge.
- Newman, J. A. (2026c). Rangeland vital signs: Evaluating health and productivity. In H. A. Hager, D. J. Gibson, & J. A. Newman (Eds.), *Routledge handbook of grasslands*. Routledge.
- Newman, J. A. (2026d). What, if anything, are communities and ecosystems? In J. Odenbaugh & S. Linqvist (Eds.), *Routledge handbook of philosophy of ecology*. Routledge.
- Newman, J. A., & Hager, H. A. (2026). Endophytes unveiled: Microbial keys to grassland resilience and productivity. In H. A. Hager, D. J. Gibson, & J. A. Newman (Eds.), *Routledge handbook of grasslands*. Routledge.
- Gibson, D. J., & Newman, J. A. (2019b). Grasslands in the anthropocene: Research and conservation needs. In D. J. Gibson & J. A. Newman (Eds.), *Grasslands and climate change*. Cambridge University Press. <https://doi.org/10.1017/9781108163941.021>

- Hager, H. A., & Newman, J. A. (2019a). Methodology i: Detecting and predicting grassland change. In D. J. Gibson & J. A. Newman (Eds.), *Grasslands and climate change*. Cambridge University Press. <https://doi.org/10.1017/9781108163941.004>
- Ryan, G. D., Rasmussen, S., & Newman, J. A. (2010). Global atmospheric change and trophic interactions: Are there any general responses? In F. Baluška & V. Ninkovic (Eds.), *Plant communication from an ecological perspective* (pp. 179–214). Springer. https://doi.org/10.1007/978-3-642-12162-3_11
- Newman, J. A. (2007). Herbivory. In D. W. Stephens, J. Brown, & R. C. Ydenberg (Eds.), *Foraging: Behavior and ecology* (pp. 175–218). University of Chicago Press, Chicago, Illinois.
- Newman, J. A. (2006a). Trophic interactions and climate change. In P. C. D. Newton, R. A. Carran, G. R. Edwards, & P. A. Niklaus (Eds.), *Agroecosystems in a changing climate* (pp. 231–259). CRC Press. <https://doi.org/10.1201/9781420003826.ch10>
- Parsons, A. J., Penning, P. D., & Newman, J. A. (1995). Plant and animal interactions: The stability of grazed mixtures. In D. W. Jeffrey, M. B. Jones, & J. H. McAdam (Eds.), *Irish grasslands—their biology and management* (pp. 49–58). Royal Irish Academy.

Refereed Journal Articles

- Ge, X., Heath, K., Newman, J. A., & Bonsall, M. B. (revised and resubmitted). “Timing the swarm: Climate-tuned sit population suppression of *Aedes aegypti*”. *Ecological Applications*.
- Ge, X., Zou, Y., Hager, H. A., & Newman, J. A. (revised and resubmitted). “Wilting wildflowers and bummed-out bees: Climate change threatens u.s. state symbols”. *People and Nature*. <https://doi.org/10.1101/2024.09.08.611901>
- Newman, J. (preprint-a). “No, ecosystems do not have intrinsic value! a response to the congruillío statement”. *EcoEvoRxiv*. <https://doi.org/10.32942/X2ZP7V>
- Newman, J. (preprint-b). “What, if anything, are communities and ecosystems?” *EcoEvoRxiv*. <https://doi.org/10.32942/X2BW5K>
- Newman, J. A., & Peres-Neto, P. R. (in review). “From metrics to meaning: Diversity as an essentially contested concept”. *Ecological Monographs*. <https://doi.org/10.32942/X2407H>
- Zou, Y., & Newman, J. A. (preprint). “Insect pests on the move: Climate, soil, land use, and the search for contingent generality”. *EcoEvoRxiv*. <https://doi.org/10.32942/X2JM2J>
- Ge, X., Griswold, C. K., & Newman, J. A. (2024). “Robust species distribution predictions of predator and prey responses to climate change”. *Journal of Biogeography*, 51(10), 2047–2061. <https://doi.org/10.1111/jbi.14969>
- Ge, X., Newman, J. A., & Griswold, C. K. (2024). “Geographic variation in evolutionary rescue under climate change in a crop pest–predator system”. *Evolutionary Applications*, 17(7), e13750. <https://doi.org/10.1111/eva.13750>
- Zou, Y., Ge, X., Zong, S., & Newman, J. A. (2024b). “Climate change may make pine wilt disease more prevalent”. *Journal of Applied Ecology*, 61(12), 3028–3039. <https://doi.org/10.1111/1365-2664.14801>
- Ge, X., Griswold, C. K., & Newman, J. A. (2023). “Warmer and more seasonal climates reduce the effect of top-down population control: An example with aphids and ladybirds”. *Functional Ecology*, 37(6), 1604–1619. <https://doi.org/10.1111/1365-2435.14326>
- Hager, H. A., Gailis, M., & Newman, J. A. (2023). “Allelopathic effects of epichloe fungal endophytes: Experiment and meta-analysis”. *Plant and Soil*, 488(1), 217–232. <https://doi.org/10.1007/s11104-022-05305-8>
- Dale, J. C. M., & Newman, J. A. (2022b). “A first draft of the core fungal microbiome of *Schedonorus arundinaceus* with and without its fungal mutualist *Epichloë coenophiala*”. *Journal of Fungi*, 8(10), 1026. <https://doi.org/10.3390/jof8101026>

- Newman, J. A., Gillis, S., & Hager, H. A. (2022). “Costs, benefits, parasites and mutualists: The use and abuse of the mutualism–parasitism continuum concept for *Epichlo*”e fungi”. *Philosophy, Theory, and Practice in Biology*, 14. <https://doi.org/10.3998/ptpbio.2103>
- Thornley, J. H. M., & Newman, J. A. (2022). “Climate sensitivity of the complex dynamics of the green spruce aphid–spruce plantation interactions: Insight from a new mechanistic model”. *PLoS One*, 17(2), e0252911. <https://doi.org/10.1371/journal.pone.0252911>
- Hager, H. A., Roloson, J. L., Shukla, K., Yurkonis, K. A., & Newman, J. A. (2021). “Effects of nutrient addition on endophyte-associated grass invasion in a long-term, old-field community experiment”. *Oecologia*, 196(2), 469–482. <https://doi.org/10.1007/s00442-021-04933-8>
- Patchett, A., & Newman, J. A. (2021b). “Comparison of plant metabolites in root exudates of *loium perenne* infected with different strains of the fungal endophyte *Epichlo*”e *festucae* var. *lolii*”. *Journal of Fungi*, 7(2). <https://doi.org/10.3390/jof7020148>
- Geddes-McAlister, J., Sukumaran, A., Patchett, A., Hager, H. A., Dale, J. C. M., Roloson, J. L., Prudhomme, N., Bolton, K., Muselius, B., Powers, J., & Newman, J. A. (2020). “Examining the impacts of CO₂ concentration and genetic compatibility on perennial ryegrass–*Epichlo*”e *festucae* var. *lolii* interactions”. *Journal of Fungi*, 6(4). <https://doi.org/10.3390/jof6040360>
- Linquist, S., Varner, G., & Newman, J. E. (2020). “Precis of defending biodiversity”. *Biology & Philosophy*, 35(1), 14. <https://doi.org/10.1007/s10539-019-9722-y>
- Newman, J. A. (2020). “Biodiversity, ecosystem functioning, and the environmentalist agenda: A reply to odenbaugh”. *Biology & Philosophy*, 35(1), 17. <https://doi.org/10.1007/s10539-019-9721-z>
- Bastías, D. A., Martínez-Ghersa, M. A., Newman, J. A., Card, S. D., Mace, W. J., & Gundel, P. E. (2019). “*Sipha maydis* sensitivity to defences of *loium multiflorum* and its endophytic fungus *Epichlo*”e *occultans*”. *PeerJ*, 7, e8257. <https://doi.org/10.7717/peerj.8257>
- Seahra, S., Yurkonis, K. A., & Newman, J. A. (2019). “Seeding tallgrass prairie in monospecific patches promotes native species establishment and cover”. *Restoration Ecology*, 27(1), 82–91. <https://doi.org/10.1111/rec.12715>
- Bastías, D. A., Alejandra Martínez-Ghersa, M., Newman, J. A., Card, S. D., Mace, W. J., & Gundel, P. E. (2018). “The plant hormone salicylic acid interacts with the mechanism of anti-herbivory conferred by fungal endophytes in grasses”. *Plant, Cell & Environment*, 41(2), 395–405. <https://doi.org/10.1111/pce.13102>
- Bastías, D. A., Martínez-Ghersa, M. A., Newman, J. A., Card, S. D., Mace, W. J., & Gundel, P. E. (2018). “Jasmonic acid regulation of the anti-herbivory mechanism conferred by fungal endophytes in grasses”. *Journal of Ecology*, 106(6), 2365–2379. <https://doi.org/10.1111/1365-2745.12990>
- Minigan, J. N., Hager, H. A., Peregrine, A. S., & Newman, J. A. (2018). “Current and potential future distribution of the american dog tick (*Dermacentor variabilis*, say) in north america”. *Ticks and Tick-borne Diseases*, 9(2), 354–362. <https://doi.org/10.1016/j.ttbdis.2017.11.012>
- Berzitis, E. A., Hager, H. A., Sinclair, B. J., Hallett, R. H., & Newman, J. A. (2017). “Winter warming effects on overwinter survival, energy use, and spring emergence of *Cerotoma trifurcata* (coleoptera: Chrysomelidae)”. *Agricultural and Forest Entomology*, 19(2), 163–170. <https://doi.org/10.1111/afe.12196>
- Emiljanowicz, L. M., Hager, H. A., & Newman, J. A. (2017). “Traits related to biological invasion: A note on the applicability of risk assessment tools across taxa”. *NeoBiota*, 32, 31–64. <https://doi.org/10.3897/neobiota.32.9664>
- Langille, A. B., Arteca, E. M., & Newman, J. A. (2017). “The impacts of climate change on the abundance and distribution of the spotted wing drosophila (*Drosophila suzukii*) in the united states and canada”. *PeerJ*, 5(e3192), e3192. <https://doi.org/10.7717/peerj.3192>
- Allstadt, A. J., Newman, J. A., Walter, J. A., Korniss, G., & Caraco, T. (2016). “Spatial competition: Roughening of an experimental interface”. *Scientific Reports*, 6(1), 29908. <https://doi.org/10.1038/srep29908>

- Garcia, R. K., & Newman, J. A. (2016). "Is it possible to care for ecosystems? policy paralysis and ecosystem management". *Ethics, Policy & Environment*, 19(2), 170–182. <https://doi.org/10.1080/21550085.2016.1204054>
- Hager, H. A., Ryan, G. D., Kovacs, H. M., & Newman, J. A. (2016). "Effects of elevated CO₂ on photosynthetic traits of native and invasive C₃ and C₄ grasses". *BMC Ecology*, 16(1), 28. <https://doi.org/10.1186/s12898-016-0082-z>
- Langille, A. B., Arteca, E. M., Ryan, G. D., Emiljanowicz, L. M., & Newman, J. A. (2016). "North american invasion of spotted-wing drosophila (*Drosophila suzukii*): A mechanistic model of population dynamics". *Ecological Modelling*, 336, 70–81. <https://doi.org/10.1016/j.ecolmodel.2016.05.014>
- Ryan, G. D., Emiljanowicz, L., Wilkinson, F., Kornya, M., & Newman, J. A. (2016). "Thermal tolerances of the spotted-wing drosophila *Drosophila suzukii* (diptera: Drosophilidae)". *Journal of Economic Entomology*, 109(2), 746–752. <https://doi.org/10.1093/jee/tow006>
- Seahra, S. E., Yurkonis, K. A., & Newman, J. A. (2016). "Species patch size at seeding affects diversity and productivity responses in establishing grasslands". *Journal of Ecology*, 104(2), 479–486. <https://doi.org/10.1111/1365-2745.12514>
- Walker, M., Fureix, C., Palme, R., Newman, J. A., Ahloy Dallaire, J., & Mason, G. (2016). "Mixed-strain housing for female C57BL/6, DBA/2, and BALB/c mice: Validating a split-plot design that promotes refinement and reduction". *BMC Medical Research Methodology*, 16(1), 11. <https://doi.org/10.1186/s12874-016-0113-7>
- Hager, H. A., Quinn, L. D., Barney, J. N., Voigt, T. B., & Newman, J. A. (2015b). "Germination and establishment of bioenergy grasses outside cultivation: A multi-region seed addition experiment". *Plant Ecology*, 216(10), 1385–1399. <https://doi.org/10.1007/s11258-015-0516-2>
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- Ryan, G., Rasmussen, S., Parsons, A., & Newman, J. (2015). "The effects of carbohydrate supply and host genetic background on *Epichloa* endophyte and alkaloid concentrations in perennial ryegrass". *Fungal Ecology*, 18, 115–125. <https://doi.org/10.1016/j.funeco.2015.07.006>
- Ryan, G. D., Sylvester, E. V. A., Shelp, B. J., & Newman, J. A. (2015). "Towards an understanding of how phloem amino acid composition shapes elevated CO₂-induced changes in aphid population dynamics". *Ecological Entomology*, 40(3), 247–257. <https://doi.org/10.1111/een.12181>
- Shukla, K., Hager, H. A., Yurkonis, K. A., & Newman, J. A. (2015b). "Effects of the *Epichloa* fungal endophyte symbiosis with *Schedonorus pratensis* on host grass invasiveness". *Ecology and Evolution*, 5(13), 2596–2607. <https://doi.org/10.1002/ece3.1536>
- Berzitis, E. A., Minigan, J. N., Hallett, R. H., & Newman, J. A. (2014). "Climate and host plant availability impact the future distribution of the bean leaf beetle (*Cerotoma trifurcata*)". *Global Change Biology*, 20(9), 2778–2792. <https://doi.org/10.1111/gcb.12557>
- Emiljanowicz, L. M., Ryan, G. D., Langille, A., & Newman, J. (2014). "Development, reproductive output and population growth of the fruit fly pest *Drosophila suzukii* (diptera: Drosophilidae) on artificial diet". *Journal of Economic Entomology*, 107(4), 1392–1398. <https://doi.org/10.1603/EC13504>
- Hager, H. A., Sinasac, S. E., Gedalof, Z., & Newman, J. A. (2014). "Predicting potential global distributions of two miscanthus grasses: Implications for horticulture, biofuel production, and biological invasions". *PLoS One*, 9(6), e100032. <https://doi.org/10.1371/journal.pone.0100032>
- Rasmussen, S., Parsons, A. J., Xue, H., Liu, Q., Jones, C. S., Ryan, G. D., & Newman, J. A. (2014). "Transcript profiling of fructan biosynthetic pathway genes reveals association of a specific fructosyltransferase isoform with the high sugar trait in *Lolium perenne*". *Journal of Plant Physiology*, 171(7), 475–485. <https://doi.org/10.1016/j.jplph.2013.12.008>

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- Ryan, G. D., Rasmussen, S., Xue, H., Parsons, A. J., & Newman, J. A. (2014). “Metabolite analysis of the effects of elevated CO_2 and nitrogen fertilization on the association between tall fescue (*Schedonorus arundinaceus*) and its fungal symbiont *Neotyphodium coenophialum*”. *Plant, Cell & Environment*, 37(1), 204–212. <https://doi.org/10.1111/pce.12146>
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- Yurkonis, K. A., Drystek, E., Maherali, H., & Newman, J. A. (2014). “The effect of endophyte presence on *Schedonorus arundinaceus* (tall fescue) establishment varies with grassland community structure”. *Oecologia*, 174(4), 1377–1386. <https://doi.org/10.1007/s00442-013-2862-x>
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- Robinson, E. A., Ryan, G. D., & Newman, J. A. (2012). “A meta-analytical review of the effects of elevated CO_2 on plant–arthropod interactions highlights the importance of interacting environmental and biological variables”. *New Phytologist*, 194(2), 321–336. <https://doi.org/10.1111/j.1469-8137.2012.04074.x>
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- Newman, J. A. (1999). “Plant and animal populations, methods in demography (ta ebert)”. *Ibis*, 141, 690.
- Newman, J. A. (1995a). “Changes in land use and land cover: A global perspective (wb meyer & bl turner)”. *Bulletin of the Tory Botanical Society*, 122, 248–249.
- Newman, J. A. (1995b). “Searching behaviour, the behavioural ecology of finding resources (by wj bell)”. *Journal of Animal Ecology*, 61, 503.
- Newman, J. A. (1993). “Diet selection, an interdisciplinary approach to foraging behaviour (edited by rn hughes)”. *Animal Behaviour*.
- Caraco, T., & Newman, J. A. (1990a). “Dynamic modelling in behavioral ecology (by m mangel and c clark)”. *Natural Resource Modeling*, 4, 389–393.
- Caraco, T., & Newman, J. A. (1990b). “Dynamic modelling in behavioral ecology (by m mangel and c clark)”. *Evolution*, 44, 1879–1880.

Abstracts & Non-Refereed Articles

- Newman, J. A. (2012). “Climate change & turfgrass”. *Sports Turf Manager*, 25, 1–12.
- Newman, J. A., & Patchett, A. (2012). “Turfgrass and climate change”. *Turf News*, May/June, 34–36.
- Newman, J. A., & Parsons, A. J. (1993). “A model of the interaction between grazing mammals and a two species sward”. *Journal of Agricultural Science, Cambridge*, 121, 284.
- Newman, J. A. (1991a). “Diet selection by sheep: A teleonomic approach”. *Journal of Agricultural Science, Cambridge*, 117, 130.

Other Publications & Software

- Ge, X., Griswold, C., & Newman, J. A. (2024). “Robust species distribution predictions of predator and prey responses to climate change”. *GitHub*. https://github.com/xuezhenge/robust_model_predictions
- Ge, X., Griswold, C., & Newman, J. A. (2022). “Warmer–more seasonal climates reduce the effect of top-down population control: An example with aphids and ladybirds”. *GitHub*. <https://github.com/xuezhenge/population-dynamic-model>
- Langille, A., Arteca, E., & Newman, J. A. (2016). “dsPopSim: *Drosophila Suzukii* population simulator (version 1.0)”. *GitHub*. <https://github.com/alangillGuelph/dsPopSim>
- Newman, J. A. (1990). *Foraging in a simple stochastic environment: A stochastic dynamic programming approach* [Doctoral dissertation, University at Albany, State University of New York].

Presentations

University research presentations

Beijing Forestry University, Bristol University, Buffalo State University, Cleveland State University, Concordia University, Cornell University, Imperial College, Indiana State University, Lakehead University,

Laurentian University, McGill University, McMaster University, Mississippi State University, Oklahoma University, Purdue University, Queens University, Skidmore College, Southern Illinois University, Technische Universität München, Texas A&M, University of Aberdeen, The University at Albany, University of California Davis, University of California Los Angeles, University of Connecticut, University of Guelph, University of Idaho, University of Indiana, University of Notre Dame, University of Nottingham, University of Oxford, University of Toronto, University of Toronto Mississauga, University of Würzburg, University of Zurich, Wilfrid Laurier University

Conferences & other research presentations

AgResearch (NZ), British Ecological Society, BBSRC North Wyke (UK), Rothamsted (UK), Canada House (UK), Canadian Weed Science Society, C-CIARN “Adapting to Climate Change” (CAN), Community Based Research Canada (CAN), Ecological Society of America (US), International Society for Environmental Ethics (CAN), International Symposium on Fungal Endophytes of Grasses (US), Ontario Pest Management Conference (CAN), Ontario Turfgrass Symposium (CAN), Sigma Xi (CAN, US)

Research leadership presentations (2019–)

Beijing Forestry University (China), C2U Expo (CAN), Canadian High Commission (UK), Community-Based Research Canada AGM (CAN), Dalian Maritime University (China), National Academy of Education Administration (China), Osnabrück University of Applied Science (Germany), Orion THINK Conference (CAN), Times Higher Education Global Sustainable Development Congress (Türkiye), Université de Lille (France)

Research students & associates

Postdoctoral Fellows & Research Associates

2008–2012 Simone Härrri, Department of Environmental Biology, University of Guelph
2008–2018 Kim Bolton, Department of Integrative Biology, University of Guelph
2010–2011 Kathryn Yurkonis, School of Environmental Sciences, University of Guelph
2011–2024 Heather Hager, Department of Integrative Biology, University of Guelph
2012–2014 Geraldine Ryan, School of Environmental Sciences, University of Guelph
2018–2020 Jacqueline Powers, Department of Integrative Biology, University of Guelph
2023– Xuezheng Ge, Department of Biology, Wilfrid Laurier University
2024– Ya Zou, Department of Biology, Wilfrid Laurier University

Doctoral Students

1994 Grant Edwards, Department of Zoology, University of Oxford
2003 Matt Hunt, Department of Zoology, University of Oxford
2006 Thomas Bell, Department of Zoology, University of Oxford
2012 Geraldine Ryan, School of Environmental Sciences, University of Guelph
2013 Emily Berzitis (Robinson), School of Environmental Sciences, University of Guelph
2015 Shannon Seahra, School of Environmental Sciences, University of Guelph
2017 Aaron Langille, School of Environmental Sciences, University of Guelph
2018 Lisa Emiljanowicz, Department of Integrative Biology, University of Guelph (*withdrew*)
2021 Heather Slinn, Department of Integrative Biology, University of Guelph
2023 Xuezheng Ge, Department of Integrative Biology, University of Guelph
2024 Jenna Dale, Department of Integrative Biology, University of Guelph
c. 2026 Jacqueline Thomson, Department of Integrative Biology, University of Guelph

Visiting Doctoral Students

- 2017 Daniel Bastías, Universidad de Buenos Aires, [ELAP Scholar](#)
2021–2023 Ya Zou, Beijing Forestry University, [China Scholarship Council Scholar](#)

Master's Students

- 1997 Melissa Wolfe, Department of Zoology, Southern Illinois University
1998 Tim Hadlock, Department of Zoology, Southern Illinois University
1998 Erin Hickam, Department of Zoology, Southern Illinois University
1998 Andrea Hickman, Department of Zoology, Southern Illinois University
1999 Rebecca Wolff, Department of Zoology, Southern Illinois University
1999 Rene Wolff, Department of Zoology, Southern Illinois University
1999 Melina Lorenz, Department of Zoology, Southern Illinois University
2004 Julia Hoover, Department of Zoology, University of Oxford
2008 Anna Mika, Department of Environmental Biology, University of Guelph
2011 Jamie Robertson, Department of Philosophy, University of Guelph
2013 Kruti Shukla, School of Environmental Sciences, University of Guelph
2013 Hajnal Kovacs, School of Environmental Sciences, University of Guelph
2013 Rochelle Rupert, School of Environmental Sciences, University of Guelph
2016 Jordan Minigan, Department of Integrative Biology, University of Guelph
2018 Aura Patchett, Department of Integrative Biology, University of Guelph
2019 Jenn Roloson, Department of Integrative Biology, University of Guelph
2022 Lilianne Gee, Department of Molecular and Cellular Biology, University of Guelph
2023 Fani Goltsios, Department of Integrative Biology, University of Guelph

Grants & Funding (2015–)

- 2022–2027 Natural Science and Engineering Research Council. *Grass–Epichloë* Interactions in Current and Future Climates. \$200,000 [Principal Investigator]
2017–2019 Ontario Ministry of Agriculture, Food and Rural Affairs. Isolation and Characterization of Crop Beneficial Endophytes in Improved Selections of Big Bluestem. \$142,854 [Principal Investigator]
2016–2022 Natural Science and Engineering Research Council. The Ecological Importance of Invasive *Epichloë–Poöideae* Symbioses. \$264,000, [Principal Investigator]
2015–2017 Ontario Ministry of Agriculture, Food and Rural Affairs. A Risk Assessment of Tick-Borne Bovine Anaplasmosis. \$36,000 [Principal Investigator]
2014–2019 Canada Foundation for Innovation & Ontario Ministry of Research and Innovation. The Nature of *Neotyphodium–Poöideae* Symbioses: Biology, Agronomy, Ecological Invasions, and Climate Change. \$312,000 [Principal Investigator]
2014–2017 Ontario Ministry of Agriculture and Food & Ontario Ministry of Rural Affairs. Creation of an insect pest risk assessment tool for Ontario agriculture. \$110,755 [Principal Investigator]
2011–2016 Natural Science and Engineering Research Council. Endophytes are keystone species in temperate grasslands. \$270,000 [Principal investigator]