



Professor Jane Memmott
B.Sc., Ph.D.(Leeds)

Professor of Ecology

Area of research

Community Ecology

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Summary

My research interests in ecology include pollination ecology, invasion ecology, agro-ecology, biological control, urban ecology and restoration ecology. A theme that runs through many of my projects is the use of ecological networks to as a tool to answer a variety of environmental questions. For example does restoration ecology restore ecological function, are ecosystem services affected by farming approach and how do aliens integrate into ecological networks? I work as both a pure and an applied ecologist and I am particularly keen on working at the interface between the two disciplines. A wide variety of techniques are used by my research group, from field observation to field experiment, from theory to molecular approaches.

Further information about my research can be found on my [lab's webpage](#).

Memberships

Organisations

[School of Biological Sciences](#)

Research groups

- [Plant and Agricultural Sciences](#)
- [Ecology and Environmental Change](#)

Recent publications

- Sritongchuay, T, Hughes, AC, Memmott, J & Bumrungsri, S, 2019, '[Forest proximity and lowland mosaic increase robustness of tropical pollination networks in mixed fruit orchards](#)'. *Landscape and Urban Planning*, vol 192.
- Timberlake, T, Vaughan, IP & Memmott, J, 2019, '[Phenology of farmland floral resources reveals seasonal gaps in nectar availability for bumblebees](#)'. *Journal of Applied Ecology*, vol 56., pp. 1585-1596
- Maia, KP, Vaughan, IP & Memmott, J, 2019, '[Plant species roles in pollination networks: an experimental approach](#)'. *Oikos*, pp. 1-12
- Hackett, T, Sauve, AMC, Davies, NE, Montoya, D, Tylianakis, J & Memmott, J, 2019, '[Reshaping our understanding of the roles of species in landscape-scale networks](#)'. *Ecology Letters*.
- Baldock, K, Goddard, MA, Hicks, DM, Kunin, WE, Mitschunas, N, Morse, H, Osgathorpe, LM, Potts, SG, Robertson, KM, Scott, AV, Staniczenko, P, Stone, GN, Vaughan, IP & Memmott, J, 2019, '[A systems approach reveals urban pollinator hotspots and conservation opportunities](#)'. *Nature Ecology and Evolution*.
- Doizy, A, Barter, E, Memmott, J, Varnham, K & Gross, T, 2018, '[Impact of cyber-invasive species on a large ecological network](#)'. *Scientific Reports*, vol 8.
- Lichtenberg, EM, Kennedy, CM, Kremen, C, Batáry, P, Berendse, F, Bommarco, R, Bosque-Pérez, NA, Carvalheiro, LG, Snyder, WE, Williams, NM, Winfree, R, Klatt, BK, Åström, S, Benjamin, F, Brittain, C, Chaplin-Kramer, R, Clough, Y, Danforth, B, Diekötter, T, Eigenbrode, SD, Ekroos, J, Elle, E, Freitas, BM,

Fukuda, Y, Gaines-Day, HR, Grab, H, Gratton, C, Holzschuh, A, Isaacs, R, Isaia, M, Jha, S, Jonason, D, Jones, VP, Klein, AM, Krauss, J, Letourneau, DK, Macfadyen, S, Mallinger, RE, Martin, EA, Martinez, E & others 2017, '[A global synthesis of the effects of diversified farming systems on arthropod diversity within fields and across agricultural landscapes](#)'. *Global Change Biology*.

- Gillespie, MA, Baude, M, Biesmeijer, J, Boatman, N, Budge, GE, Crowe, A, Memmott, J, Morton, RD, Pietravalle, S, Potts, SG, Senapathi, D, Smart, SM & Kunin, WE, 2017, '[A method for the objective selection of landscape-scale study regions and sites at the national level](#)'. *Methods in Ecology and Evolution*.
- Vaughan, IP, Gotelli, N, Memmott, J, Pearson, C, Woodward, G & Symondson, WOC, 2017, '[econullnet: an R package using null models to analyse the structure of ecological networks and identify resource selection](#)'. *Methods in Ecology and Evolution*.
- Hicks, DM, Ouvrard, P, Baldock, K, Baude, M, Goddard, MA, Kunin, WE, Mitschunas, N, Memmott, J, Morse, H, Maria, N, Osgathorpe, LM, Potts, SG, Robertson, KM, Scott, AV, Sinclair, F, Westbury, D & Stone, GN, 2016, '[Food for Pollinators: Quantifying the Nectar and Pollen Resources of Urban Flower Meadows](#)'. *PLoS ONE*, vol 11.

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