Ian Donohue PhD

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Editor for *Ecology Letters*
Editor for *Global Change Biology*
Faculty Member of *Faculty Opinions*
(Community Ecology & Biodiversity Section)

Research interests

I use theory and experiments to explore how biological networks respond to perturbations. The overarching aim of my research is to understand and predict how key elements of global change alter the functioning and stability of ecosystems. An important goal of my research is to bridge the gaps between theoretical, empirical and applied ecology.

Some recent publications

- White, L., O'Connor, N.E., Yang, Q., Emmerson, M.C. & Donohue, I. (2020) Individual species provide multifaceted contributions to the stability of ecosystems. *Nature Ecology & Evolution* 4: 1594–1601. Full text available at https://rdcu.be/b8pp9
- Hillebrand, H., Donohue, I., Harpole, W.S., Hodapp, D., Kucera, M., Lewandowska, A.M., Merder, J., Montoya, J.M. & Freund, J.A. (2020) Thresholds for ecological responses to global change do not emerge from empirical data. *Nature Ecology & Evolution* 4: 1502–1509. Full text available at https://rdcu.be/b6jI8
- Pimm, S.L., Donohue, I., Montoya, J.M. & Loreau, M. (2019) Measuring resilience is essential to understand it. *Nature Sustainability* 2: 895-897. Full-text available at https://rdcu.be/bTN0E
- Yang, Q. Fowler, M.S., Jackson, A.L. & Donohue, I. (2019) The predictability of ecological stability in a noisy world. *Nature Ecology & Evolution* 3: 251-259. Full-text available at https://rdcu.be/bi0Uq
- Kéfi, S., Dominguez-Garcia, V., Donohue, I., Fontaine, C. Thébault, E. & Dakos, V. (2019) Advancing our understanding of ecological stability. *Ecology Letters* 22: 1349-1356.