

Dr. Ben Keane
Senior researcher
Environment and Geography
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Research interests

Ecosystem processes, carbon and nitrogen cycling, greenhouse gas fluxes, plant-soil-atmosphere interactions, sustainable food production, climate change

Employment

Research Associate

Post doctoral research assistant
Stockholm Environment Institute at York
University of York
Grimston House, Heslington, York
1 May 2015 → 31 Oct 2015

Research Associate

Post doctoral research assistant
Environment and Geography
University of York
Heslington, York
1 Feb 2017 → 31 Jan 2018

Postdoctoral Research Associate

Post doctoral research assistant
Stockholm Environment Institute at York
University of York
Grimston House, Heslington, York
1 Feb 2017 → 31 Jan 2018

Research Associate

Post doctoral research assistant
Environment and Geography
University of York
Heslington, York
5 Jul 2021 → 11 Dec 2023

PhD, Biology

Biology
University of York
Wentworth Way, York
1 Oct 2011 → 18 Jan 2016

Research Fellow

Senior researcher
Environment and Geography
University of York
Heslington, York
17 Feb 2025 → 15 Feb 2030

Research output

Grassland responses to elevated CO₂ determined by plant–microbe competition for phosphorus

Keane, B., Hartley, I., Taylor, C. R., Leake, J. R., Hoosbeek, M. R., Miglietta, F. & Phoenix, G. K., 10 Jul 2023, (E-pub ahead of print) In: Nature Climate Change. 11 p.

A model-data fusion approach to analyse carbon dynamics in managed grasslands

Myrgiotis, V., Blei, E., Clement, R., Jones, S. K., Keane, B., Lee, M. A., Levy, P. E., Rees, R. M., Skiba, U., Smallman, T. L., Toet, S. & Williams, M., Sept 2020, In: Agricultural Systems. 184, 102907.

Greenhouse gas emissions from the energy crop oilseed rape (*Brassica napus*); the role of photosynthetically active radiation in diurnal N₂O flux variation

Keane, J. B., Ineson, P., Vallack, H. W., Blei, E., Bentkey, M., Howarth, S., McNamara, N., Rowe, R., Williams, M. & Toet, S., 1 Dec 2017, (E-pub ahead of print) In: Global Change Biology Bioenergy. p. 1-38 38 p.

Technical note: Differences in the diurnal pattern of soil respiration under adjacent *Miscanthus × giganteus* and barley crops reveal potential flaws in accepted sampling strategies

Keane, J. B. & Ineson, P., 13 Mar 2017, In: Biogeosciences. 14, p. 1181-1187 7 p.

Projects

GREENHOUSE: Generating Regional Emissions Estimates with a Novel Hierarchy of Observations and Upscaled Simulation Experiments

Keane, B. (Researcher)

Investigating Biological Uptake of Nitrous Oxide in Soils

Keane, B. (Principal investigator), James, S. R. (Co-investigator) & Toet, S. (Co-investigator)

NATURAL ENVIRONMENT RESEARCH COUNCIL

17/02/25 → 16/02/30

Upscaling of greenhouse gas emissions from freshwater wetlands

Keane, B. (Researcher)

1/01/17 → 30/06/18