

Laurence Graham Smith

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Current Position:

2021; Researcher; Swedish University of Agricultural Sciences

2021; Lecturer in Agricultural Business Management; University of Reading

Previous posts:

2019-2021; Lecturer in Agroecology; Royal Agricultural University

2012-2019; Senior Researcher; The Organic Research Centre

2008-2012; Researcher; The Organic Research Centre

2007-2008; Organic Market Gardener and Horticulture Tutor, Ruskin Mill Trust

Academic Qualifications:

2017; PhD Agricultural System Modelling; Cranfield University

2007; BSc (Hons) 1st Class; Organic Agriculture; University of Wales, Aberystwyth

Current and recent projects:

- Horizon 2020 (2021-2026): Pathways for transitions to sustainability in livestock husbandry and food systems (PATHWAYS), co-lead investigator
- SUSFOOD2 CORE-ORGANIC ERA-NET (2020-2022): Leverage points for organic and sustainable food systems (FOODLEVERS). Lead: Marburg University, co-investigator
- Defra (2019-2021): Environmental Land Management (ELM) Test and Trial – developing a public goods focussed farmer self-assessment for ELM, lead investigator
- BBSRC and Global Food Security Programme (2018-2021): Sustainable economic and ecological grazing systems (SEEGLSIP). Lead: NERC Centre for Ecology and Hydrology (CEH), co-investigator
- FACCE SURPLUS ERA-NET (2016-2019): SustainFARM. Lead: Copenhagen University, co-investigator
- Defra and Devolved Administration Governments (2011-2016): Data Management and Modelling Project, part of the UK Greenhouse Gas Platform. Lead: ADAS UK Ltd, co-investigator
- Defra (2014): Application of the Public Goods Tool on Conventional Farms (OF0398). Lead: The Organic Research Centre, co-investigator

Recent publications:

Smith, L.G., Westaway, S., Mullender, S., Ghaley, B.B., Xu, Y., Lehmann, L.M., Pisanelli, A., Russo, G., Borek, R., Wawer, R. (2022): Assessing the multidimensional elements of sustainability in European agroforestry systems. *Agricultural Systems* 197, 103357.

Wawer, R., Koza, P., Borek, R., Gliga, A.-e., Ghaley, B.B., Xu, Y., Smith, J., **Smith, L.G.**, Şandor, M., Pisanelli, A. (2021): Potential of agroforestry systems in preserving Europe's soil productivity in lowland and highland landscapes by limiting soil erosion by surface runoff. *Polish Journal of Agronomy* 47, 78-86.

Barbieri, P., Pellerin, S., Seufert, V., **Smith, L.G.**, Ramankutty, N., Nesme, T. (2021): Global option space for organic agriculture is delimited by nitrogen availability. *Nature Food*, 2, 363-372.

Mullender, S., Smith, J., Sandor, M., Pisanelli, A., Kozyra, J., Borek, R., Ghaley, B., Gliga, A., von Oppenkowski, M., Roesler, T., Salkanovic, E., **Smith, L.G.** (2020): A Delphi-style Approach for the

Stakeholder-led Development of an Agroforestry-relevant Sustainability Assessment Tool. Environmental Impact Assessment Review, 84, 106415.

Paraskevopoulou, C., Theodoridis, A., Johnson, M., Ragkos, A., Arguile, L., **Smith L.G.**, Vlachos, D., Arsenos, G. (2020): Sustainability Assessment of Goat and Sheep Farms: A Comparison between European Countries. Sustainability 12(8), 3099.

Lehmann, L. M., Smith, J., Westaway, S., Pisanelli, A., Russo, G., Borek, R., Sandor, M., Gliga, A., **Smith, L.G.**, Ghaley, B.B. (2020): Productivity and Economic Evaluation of Agroforestry Systems for Sustainable Production of Food and Non-Food Products. Sustainability, 12(13), 5429.

Smith, L.G., Kirk, G.J., Jones, P.J., Williams, A.G. (2019): The greenhouse gas impacts of converting food production in England and Wales to organic methods. Nature Communications 10, 1-10.

Knudsen, M.T., Dorca-Preda, T., Djomo, S.N., Peña, N., Padel, S., **Smith, L.G.**, Zollitsch, W., Hörtenhuber, S., Hermansen, J.E. (2019): The importance of including soil carbon changes, ecotoxicity and biodiversity impacts in environmental life cycle assessments of organic and conventional milk in Western Europe. Journal of Cleaner Production 215, 433-443.

Dicks, L.V., Rose, D.C., Ang, F., Aston, S., Birch, A.N.E., Boatman, N., Bowles, E.L., Chadwick, D., Dinsdale, A., Durham, S., Elliott, J., Firbank, L., Humphreys, S., Jarvis, P., Jones, D., Kindred, D., Knight, S.M., Lee, M.R.F., Leifert, C., Lobley, M., Matthews, K., Midmer, A., Moore, M., Morris, C., Mortimer, S., Murray, T.C., Norman, K., Ramsden, S., Roberts, D., **Smith, L.G.**, Soffe, R., Stoate, C., Taylor, B., Tinker, D., Topliff, M., Wallace, J., Williams, P., Wilson, P., Winter, M., Sutherland, W.J. (2019): What agricultural practices are most likely to deliver “sustainable intensification” in the UK? Food and Energy Security 8, e00148.

Smith, L.G., Jones, P., Kirk, G., Pearce, B., Williams, A.G. (2018): Modelling the impact of a widespread conversion to organic agriculture in England and Wales. Land Use Policy, 76: 391-404.

Smith, L.G., Tarsitano, D., Topp, C. F. E., Jones, S.K., Gerrard, C.L., Pearce, B.D., Williams, A.G., Watson, C.A. (2016): Predicting the effect of rotation design on N, P, K balances on organic farms using the NDICEA model. Renewable Agriculture and Food Systems 31: 471-484.

Schader C, Baumgart L, Landert J, Muller A, Ssebunya B, Blockeel J, Weissshaidinger R, Petrusek R, Mészáros D, Padel S, Gerrard C, **Smith L.G.**, Lindenthal T, Niggli U, Stolze M (2016): Using the Sustainability Monitoring and Assessment Routine (SMART) for the Systematic Analysis of Trade-Offs and Synergies between Sustainability Dimensions and Themes at Farm Level. Sustainability 8 (3), 274.

Hietala, S., **Smith, L.G.**, Knudsen, M., Kurppa, S., Padel, S., Hermansen, J. (2015): Carbon footprints of organic dairying in six European countries — real farm data analysis. Organic Agriculture 5(2): 91-100.

Smith, L.G., Williams, A.G., Pearce, B.D. (2015): The energy efficiency of organic agriculture: a review. Renewable Agriculture and Food Systems 30: 280-301.

Markussen, M.V., Kulak, M., **Smith, L.G.**, Nemecek, T., Østergård, H. (2014): Evaluating the Sustainability of a Small-Scale Low-Input Organic Vegetable Supply System in the United Kingdom. Sustainability 6, no. 4: 1913-1945.

Gerrard, C., Janssen, M., **Smith, L.G.**, Hamm, U., Padel, S. (2013): UK consumer reactions to organic certification logos. British Food Journal 115, 727-742.