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Employment

Research Fellow

Rural Development & Food Marketing
Scotland's Rural College
1 Dec 2021 → present

Research Fellow

Scotland's Rural College
Edinburgh, United Kingdom
1 Sept 2012 → present

Research outputs

An economic assessment of alternative antimicrobial use scenarios on pig farms

Shrestha, S., Rodrigues da Costa, M., Correia-Gomes, C., Nevel, A., McGowan, A. & Tongue, SC., 30 Apr 2024, (First published) In: *Frontiers in Veterinary Science*. 11, 1381499.

Sea lice management measures for farmed Atlantic salmon (*Salmo salar*) in Scotland: Costs and effectiveness

Boerlage, AS., Shrestha, S., Leinonen, I., Jansen, M. D., Revie, C. W., Reeves, A. & Toma, L., 15 Feb 2024, In: *Aquaculture*. 580, 1, 740274.

Environmental and land use consequences of replacing milk and beef with plant-based alternatives

Costa, M., Sagat, S., Zimmermann, B., Petig, E., Angenendt, E., Rees, RM., Chadwick, D. R., Gibbons, J. M., Shrestha, S., Williams, M. & Styles, D., 20 Oct 2023, In: *Journal of Cleaner Production*. 424, 138826.

ScotMS – Microsimulation Model for Scotland: Construction and Validation

Urban, D. & Shrestha, S., 13 Mar 2023, Figshare. 8 p.

Economic assessment of the impacts of post-Brexit trade and policies on Scottish farms

Shrestha, S., Urban, D., O'Donoghue, C. & Barnes, AP., 10 Feb 2023, SRUC. 25 p.

ScotMS update version2

Shrestha, S. & Urban, DU., 2023, 12 p.

An economic assessment of ecological practices in Scotland

Shrestha, S., Thompson, B., Toma, L., Ferreira, JG. & Barnes, AP., 26 Nov 2021, Zenodo. 9 p.

Ecological Practices in Scotland: Comparing Farmer Attitudes to Agroecological Farming

Barnes, AP., Thompson, B., Toma, L., Ferreira, JG. & Shrestha, S., 23 Sept 2021, SRUC, 8 p.

Agroecological Practices Used in Scottish Farming: Evidence from a Survey of Farming Businesses

Thompson, B., Toma, L., Ferreira, JG., Shrestha, S. & Barnes, AP., 1 Sept 2021, 8 p.

A Multifunctional Solution for Wicked Problems: Value-Chain Wide Facilitation of Legumes Cultivated at Bioregional Scales Is Necessary to Address the Climate-Biodiversity-Nutrition Nexus

Iannetta, P. PM., Hawes, C., Begg, G. S., Maass, H., Ntatsi, G., Savvas, D., Vasconcelos, M., Hamann, K., Williams, M., Styles, D., Toma, L., Shrestha, S., Balazs, B., Kelemen, E., Debeljak, M., Trajanov, A., Vickers, R. & Rees, RM., 23 Jul 2021, (First published) In: *Frontiers in Sustainable Food Systems*. 5, 692137.

Understanding impacts of environment-related payments on farm level production and economy through integrated spatial modelling

Urban, D., Shrestha, S., Barnes, AP., O'Donoghue, C. & Ryan, M., Mar 2021, 12 p.

Preparing the Evidence Base for Post-Brexit agriculture in Scotland – case studies on alternative payments

Lampkin, N., Shrestha, S., Sellars, A., Baldock, D., Smith, J., Mullender, S., Keenleyside, C., Pearce, B. & Watson, CA., 2021, NatureScot. 112 p. (Research Report No. 1201)

Financial Impacts of Liver Fluke on Livestock Farms Under Climate Change–A Farm Level Assessment

Shrestha, S., Barratt, AS., Fox, NJ., Vosough Ahmadi, B. & Hutchings, M., 7 Dec 2020, (First published) In: *Frontiers in Veterinary Science*. 7, 564795.

ScotFarm - a farm level optimising model

Shrestha, S., 26 Sept 2020, 25 p. Scotland's Rural College (SRUC).

Brexit: potential impacts on the economic welfare of UK farm households

Ojo, O., Hubbard, C., Wallace, M., Moxey, A., Patton, M., Harvey, D., Shrestha, S., Feng, S., Scott, C., Philippidis, G., Davis, J. & Liddon, A., 7 Jul 2020, (First published) In: *Regional Studies*. p. 1-13 13 p.

The Biology of Legumes and Their Agronomic, Economic, and Social Impact: Economic impact of legume

Vasconcelos, M., Grusak, M., Pinto, E., Gomes, A., Ferreira, H., Balazs, B., Centofanti, T., Ntatsi, G., Savvas, D., Karkanis, A., Williams, M., Vandenberg, A., Toma, L., Shrestha, S., Akaichi, F., Barrios, C. O., Gruber, S., James, E. K., Maluk, M., Karley, A., & 1 othersIannetta, P., 2 Jul 2020, (First published) *The Plant Family Fabaceae : Biology and Physiological Responses to Environmental Stresses*. Hasanuzzaman, M., Arujo, S. & Gill, S. S. (eds.). Singapore: Springer, p. 3-25 22 p.

To what extent is climate change adaptation a novel challenge for agricultural modellers?

Kipling, R. P., Topp, CFE., Bannink, A., Bartley, D. J., Blanco-Penedo, I., Cortignani, R., del Prado, A., Dono, G., Faverdin, P., Graux, I., Hutchings, NJ., Lauwers, L., Gulzari, Ş. Ö., Reidsma, P., Rolinski, S., Ruiz-Ramos, M., Sandars, D. L., Sándor, R., Schönhart, M., Seddaiu, G., & 4 othersVan Middelkoop, J., Shrestha, S., Weindl, I. & Eory, V., Oct 2019 , In: *Environmental Modelling and Software*. 120, 21 p., 104492.

Financial vulnerability of dairy farms challenged by Johne's disease to changes in farm payment system

Shrestha, S., Vosough Ahmadi, B., Barratt, AS., Thomson, SG. & Stott, AW., 18 Dec 2018, (First published) In: *Frontiers in Veterinary Science*. 5, 9 p., 316.

Brexit: How will UK agriculture fare?

Hubbard, C., Davis, J., Feng, S., Harvey, D., Liddon, A., Moxey, A., Ojo, M., Patton, M., Philippidis, G., Scott, C., Shrestha, S. & Wallace, M., 23 Aug 2018, (First published) In: *EuroChoices*. 17, 2, p. 19 - 26 8 p.

Financial and N₂O effects of soil management measures on arable farms in Scotland

Shrestha, S., Eo²y, V. & Topp, CFE., 2018, *Aspects of Applied Biology: Soil Improvement: Impact of Management Practices on Soil Function and Quality*. Association of Applied Biologists, Vol. 140. p. 83-88

A farm level approach to explore farm gross margin effects of soil organic carbon management

Glenk, K., Shrestha, S., Topp, CFE., Sanchez, B., Iglesias, A., Dibari, C. & Merante, P., 22 Nov 2016, (First published) In: *Agricultural Systems*. 151, p. 33 - 46 14 p.

Challenges and priorities for modelling livestock health and pathogens in the context of climate change

Ozkan, S., Vitali, A., Lacetera, N., Amon, B., Bannink, A., Bartley, DJ., Blanco-Penedo, I., de Haas, Y., Dufrasne, I., Elliott, J., Eory, V., Fox, NJ., Garnsworthy, PC., Gengler, N., Hammami, H., Kyriazakis, I., Leclere, D., Lessire, F., MacLeod, M., Robinson, TP., & 14 others Ruete, A., Sandars, DL., Shrestha, S., Stott, AW., Twardy, S., Vanrobays, M-L., Vosough Ahmadi, B., Weindl, I., Wheelhouse, N., Williams, AG., Williams, HW., Wilson, AJ., Ostergaard, S. & Kipling, RP., 29 Jul 2016, (First published) In: *Environmental Research*. 151, p. 130 - 144 15 p.

Farm Level Modelling: Techniques, Applications and Policy

Shrestha, S., Vosough Ahmadi, B., MacLeod, M., Barnes, AP., Shrestha, S. (ed.), Vosough Ahmadi, B. (ed.) & Barnes, AP. (ed.), 2016, CABI Publishing.

Impacts of greening measures and flat rate regional payments of the Common Agricultural Policy on Scottish beef and sheep farms

Vosough Ahmadi, B., Shrestha, S., Thomson, SG., Barnes, AP. & Stott, AW., 2015, In: *Journal of Agricultural Science*. 153, 4, p. 676 - 688 13 p.

The influence of diversification on long-term viability of the agricultural sector

Barnes, AP., Hansson, H., Manevska-Tasevska, G., Shrestha, S. & Thomson, SG., 2015, In: *Land Use Policy*. 49, p. 404 - 412

Irish farms under climate change - Is there a regional variation on farm responses?

Shrestha, S., Abdalla, M., Hennessy, T., Forristal, D. & Jones, MB., 1 May 2014, (First published) In: *Journal of Agricultural Science*. 153, p. 385 - 398 14 p.

Determining short term responses of Irish dairy farms under climate change

Shrestha, S., Hennessey, T., Abdalla, M., Forristal, D. & Jones, MB., 2014, (First published) In: *German Journal of Agricultural Economics*. 63(3), p. 143 - 155 13 p.

Linking an economic and a life-cycle analysis biophysical model to support agricultural greenhouse gas mitigation policy

Eory, V., MacLeod, M., Shrestha, S. & Roberts, DJ., 2014, (First published) In: *German Journal of Agricultural Economics*. 63, 3, p. 133 - 142 10 p.

Awards

RESAS 22-27: SRUC-c3-2 Modelling The Socio-economic, Greenhouse Gas And Natural Capital Impacts Of Land Use Policy And Opportunities?. *joint With SRUC-d5-3

McVittie, A., Hamilton, A., Eory, V., Buckingham, S., Shrestha, S., Topp, K., Thomson, S., Holland, J., McCracken, D., Gibson-Poole, S., Botero Degiovanni, H., McMillan, J., Wall, E., MacLeod, M., Glendinning, J., Merrell, I. & Mckay Fletcher, D.

Scottish Government: Rural & Environment Science & Analytical Services: £1,222,461.00

1/04/22 → 31/03/27

Projects

Antimicrobial Resistance (AMR)

Baughan, J., Shrestha, S., Henry, M., Lamont, K., Humphry, R. & Tongue, S.
UK Department for Environment, Food and Rural Affairs
14/02/19 → 31/05/22

Benchmarking sustainable intensification of farms using AgRE Calc, DEA and ScotFarm

Shrestha, S., Vosough Ahmadi, B., Thomson, S., Spencer, M., Barnes, A., Stott, A., Bell, J., Vosough Ahmadi, B.,
Spencer, M., Barnes, A., Inman, G. & Toma, L.
SFC GRANT
1/03/18 → 31/05/20

Brexit: How might UK agriculture survive or thrive?

Shrestha, S.
1/04/17 → 31/03/19

MEASURE: Environmental and economic impacts of improved antibiotics stewardship in poultry systems

Toma, L., Shrestha, S., MacLeod, M. & Sparks, N.
University of Edinburgh
1/08/19 → 31/03/24

Livestock's role in food system resilience in remote, upland regions

McCracken, D., Shrestha, S., Thomson, S., Holland, J., Morgan-Davies, C., Barnes, A. & McLaren, A.
B.b.s.r.c.
1/11/17 → 31/05/22

Low-Input Farming and Territories - Integrating knowledge for improving ecosystem-based farming

Barnes, A., Toma, L., Shrestha, S., Ferreira, J., Thompson, B., McCracken, D. & Latto, D.
European Commission
1/05/18 → 30/04/22

Preparing the evidence base for post-Brexit agriculture in Scotland - Case studies on alternative payments

Watson, C., Shrestha, S. & Sellars, A.
1/05/19 → 30/11/19

RESAS 22-27: SRUC-c3-2 Modelling The Socio-economic, Greenhouse Gas And Natural Capital Impacts Of Land Use Policy And Opportunities?. *joint With SRUC-d5-3

McVittie, A., Thomson, S., Shrestha, S., Botero Degiovanni, H., MacLeod, M., Hamilton, A., Eory, V., Buckingham, S.,
Shrestha, S., Topp, K., Thomson, S., Holland, J., McCracken, D., Gibson-Poole, S., Botero Degiovanni, H., McMillan, J.,
Wall, E., MacLeod, M., Glendinning, J., Merrell, I. & McKay Fletcher, D.
Scottish Government: Rural & Environment Science & Analytical Services
1/04/22 → 31/03/27

RESAS Strategic Research Programme 2016-21 WP2.3 Productive and sustainable land management

Wall, E., Smith, S., Nicoll, L., Parker, J., Robertson, D., Davidson, R., Donbavand, J., Anderson, C., Roehe, R., Harrison,
B., Purcell, L., Duthie, C., Gunn, G., Pritchard, T., Jones, S., Bagnall, A., Vosough Ahmadi, B., Archibald, I., Rees, B.,
Eory, V., Glenk, K., Edwards, T., Buckingham, S., March, M., Broadbent, C., Cloy, J., Hargreaves, P., Wishart, H.,
Griffiths, B., Fox, N., Sparks, N., Shrestha, S., Banos, G., Henry, M., Watson, C., Dickinson, J., Topp, K., Burnett, F., Kyle,
J., Denholm, S., Dewhurst, R., Lawson, D., McCubbin, I., Dwyer, C., Holland, J., McCracken, D., Barratt, A., Havis, N.,
Stanisz-Migal, M., Miller, G., Bowen, J., Hutchings, M., Creissen, H., D'Eath, R., Baddeley, J., Houdijk, J., Coffey, M.,
Morgan-Davies, C., Walker, R., Turner, S., Haskell, M., Barnes, A., Athanasiadou, S., Cole, L., Sandilands, V., McLaren,
A., MacLeod, M. & Smith, L.
1/04/19 → 31/03/20

Support to economic modeling of agriculture

Shrestha, S.
1/09/18 → 31/08/23

Transition paths to sustainable legume based systems in Europe (TRUE)

Rees, B., Toma, L., March, M., Akaichi, F., Shrestha, S. & Barnes, A.

European Commission

1/04/17 → 30/09/21

Understanding the Relative Cost-effectiveness of Sea-lice Treatments for Farmed Salmon Production

Toma, L., Shrestha, S., Reeves, A., Barratt, A., Leinonen, I. & Boerlage, A.

1/08/19 → 31/07/20