

Fissha Asmare
Scotland's Rural College

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Biography

Fissha Asmare is a research fellow at Scotland's Rural College (SRUC). His research broadly focuses on behavioural environmental economics and agricultural economics. He explores the impact of climate change, climate change adaptation and various policy changes on production and environmental efficiency. By exploiting experimental and survey methods he also delves into the application of behavioural economics principles in resource use efficiency (E.g., energy & water) analysis and sustainable agricultural technology adoption behaviour in the agriculture sector.

Research interests

- Climate change, adaptation, digital innovations and agricultural productivity
- Production and environmental efficiency
- Resource use efficiency analysis (E.g., energy) through the application of behavioral economics principles using lab, field, and discrete choice experiments

Qualifications

PhD, Economics/Environmental behavioural economics, Vilnius University

14 Oct 2019 → 29 May 2023

Award Date: 29 May 2023

Master, Economics/Environmental Economics specialization, Addis Ababa University

1 Oct 2014 → 7 Jul 2016

Award Date: 7 Jul 2016

Bachelor, Economics, Haramaya University

1 Sept 2009 → 7 Jul 2012

Award Date: 7 Jul 2012

Research outputs

Environmental Performance Evaluation Under the Frontier Analysis Framework: A Farm-Level Systematic Review and Meta-Analysis.

Asmare, F., Thompson, B., Soliman, T., Donovan, T., Glenk, K. & Barnes, A., Jun 2026, In: Journal of Agricultural Economics. 77, 2, p. 493-512 20 p.

Adoption of sustainable and regenerative farming measures in Scotland with a focus on livestock and grassland management

Thompson, B., Begho, T., Eory, V., Asmare, F. & Glenk, K., 2026, 72 p.

Climate-smart agriculture and climate resilience: panel data evidence from Ethiopia.

Asmare, F. & Jr. Tabe-Ojong, M. P., 6 Nov 2025, (First published) In: Climatic Change. 178, 11, 20 p., 208.

The Spillover Effects of Real-Time Social Comparison Information on Water and Energy Use: Experimental Evidence Using In-Home Displays.

Kažukauskas, A., Asmare, F., Broberg, T. & Jaraitė, J., Jul 2025, In: Environmental and Resource Economics. 88, 7, p. 1879-1904 26 p.

Technical efficiency and production risk in Scottish Agriculture: Impacts on the arable farming sector.

Asmare, F., Barnes, A., Thompson, B. & Glenk, K., Dec 2024, Zenodo.

Technical efficiency and production risk in Scottish Agriculture: Impacts on the livestock sector.

Asmare, F., Barnes, A., Thompson, B. & Glenk, K., Dec 2024, Zenodo.

Environmental performance evaluation using the frontier analysis framework.

Asmare, F., Thompson, B., Soliman, T., Glenk, K. & Barnes, A., 2024, Zenodo.

Presumptive Taxation and Equity: Evidence from the Ethiopian Informal Sector.

Asmare, F., Yimam, S. & Semreab, E., Nov 2023, 978-1-80470-157-7: Institute of Development Studies. 25 p. (ICTD African Tax Administration ; no. 32)

Does Competition from the Informal Sector Reduce Tax Compliance in the Formal Sector? Evidence from Ethiopia.

Yimam, S., Asmare, F. & Moore, M., 20 Jul 2023, Brighton: Institute of Development Studies, (ICTD Working Paper; no. 165).

Energy-related financial literacy and retrofits of Soviet-era apartment buildings: The case of Lithuania.

Asmare, F., Giedraitis, V., Jaraitė, J. & Kažukauskas, A., Apr 2023, In: Energy Economics. 120, 106583.

Climate change adaptation and productive efficiency of subsistence farming: A bias-corrected panel data stochastic frontier approach.

Asmare, F., Jaraitė, J. & Kažukauskas, A., Sept 2022, In: Journal of Agricultural Economics. 73, 3, p. 739-760 22 p.

The effect of descriptive information provision on electricity consumption: Experimental evidence from Lithuania.

Asmare, F., Jaraitė, J. & Kažukauskas, A., Dec 2021, In: Energy Economics. 104, 105687.

Gender and Tax Compliance: Firm-Level Evidence from Ethiopia. ICTD working paper 113.

Yimam, S. & Asmare, F., Oct 2020, 27 p.

The effect of climate change adaptation strategy on farm households welfare in the Nile basin of Ethiopia: Is there synergy or tradeoffs?

Asmare, F., Teklewold, H. & Mekonnen, A., 12 Aug 2019, In: International Journal of Climate Change Strategies and Management. 11, 4, p. 518-535

Second Agricultural Growth Program (AGP-II) Impact Evaluation Report

Bayru, A., Kuma, T. (Contributor), Bekele, M. (Contributor), Degu, T. (Contributor), Yimam, S. (Contributor), Wondwossen, A. (Contributor) & Asmare, F. (Contributor), 2019, Addis Ababa, Ethiopia: Policy Studies institute.

Activities

Ecology and Society (Journal)

Asmare, F. (Reviewer)

Jun 2023

The 40th International Energy Workshop (IEW).

Asmare, F. (Speaker)

25 May 2022 → 27 May 2022

The 96th Annual conference of the Agricultural Economics Society (AES)

Asmare, F. (Speaker)

4 Apr 2022 → 6 Apr 2022

Food and Energy Security (Journal)

Asmare, F. (Reviewer)

2022

10th Annual Lithuanian Conference on Economic Research. December-2021.

Asmare, F. (Speaker)

28 Nov 2021

The 26th Annual Conference of the European Association of Environmental and Resource Economists.

Asmare, F. (Speaker)

23 Jun 2021 → 25 Jun 2021

Development and Research Conference (DevRes2021)

Asmare, F. (Speaker)

14 Jun 2021 → 16 Jun 2021

3rd Baltic economic conference June 7-8, 2021.

Asmare, F. (Speaker)

7 Jun 2021 → 8 Jun 2021

ENERDAY 2021- 15th International conference on energy economics and technology.

Asmare, F. (Speaker)

9 Apr 2021

Cogent Economics and Finance (Journal)

Asmare, F. (Reviewer)

2021

Environment, Development and Sustainability (Journal)

Asmare, F. (Reviewer)

2021

9th Annual Lithuanian Conference on Economic Research. December-2020.

Asmare, F. (Speaker)

28 Dec 2020

The 25th Annual Conference of the European Association of Environmental and Resource Economists (EAERE).

Asmare, F. (Speaker)

2020