

# Dr Anna Krzywoszynska

Associate Professor, Faculty of Humanities, University of Oulu

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## Profile.

I am an Associate Professor of Transdisciplinary Human-Environment Relations at the University of Oulu, in the Faculty of Humanities and the Department of Anthropology. I lead a research team on the transformation to more sustainable and just agri-food and land relations. The current foci includes microbial and soil-related knowledge systems, the co-production of knowledge between science and society, and local food systems. I contribute to debates in the interdisciplinary fields of Anthropocene studies and more-than-human scholarship. I have published widely in the fields of science and technology studies, environmental humanities, and human geography.

## Education.

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| 2012 | PhD, The University of Sheffield, UK. Geography. Monograph " <i>We produce under this sky</i> ": <i>making organic wine in a material world</i> . No corrections. |
| 2006 | B.A., University College London, UK. European Social and Political Studies, Specialization Anthropology and Italian, 1 <sup>st</sup> .                            |

## Employment.

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| 2022–current | Associate Professor of Transdisciplinary Human-Nature Relations, Faculty of Humanities, Dept. of Anthropology, University of Oulu, Finland. |
| 2022         | Assistant Professor of Sustainability Transformations, Science, Technology and Policy group, University of Twente, Netherlands.             |
| 2019–2022    | Senior Lecturer (promoted in 2021), Dept. of Geography, University of Sheffield, UK.  |
| 2016–2019    | Leverhulme Early Career Fellow, Dept. of Geography, University of Sheffield, UK.  |
| 2012–2016    | Post-doctoral researcher, Dept. of Geography, Durham University, UK.  |

## Publications overview.

ORCID: <https://orcid.org/0000-0002-8304-0440>

20 peer reviewed publications published (10 single, lead, or equally co-authored)

1 edited book, 9 book chapters, 5 reports

Google scholar statistics (October 2023): 1128 citations, h-index 16

## Research funding.

My transdisciplinary research agenda, strong networking skills, and frequent collaboration with the natural sciences and engineering make me well placed to pursue funding from variety of funding bodies. I currently lead 3 post-doc and 4 PhD-staffed research projects.

Year	Funder & scheme	Topic	Role	Amount
2023	University of Oulu, Human Sciences Doctoral Programme	Arts of Noticing. Methods for Studying the Anthropocene	PI	€7240
2023	Kone Foundation	'In the shadow of carbon'	PI	€340,000

2023	Arctic Researchers' Network Networking Grant	'Storying with more-than-humans' workshop	PI	€3,600
2023	Institute of Advanced Studies, Durham University (UK)	IAS Senior Fellowship, SMART Soils	Fellow	£13,000
2023	FARIA, Finnish-American RI Accelerator (FI)	MicroBio: the transition to a microbial bioeconomy	PI	€84, 473
2022	Research Council of Finland (under the Profi6 program Biodiverse Anthropocenes)	Towards a Soil Humanities	PI	€322,000
2022	NWO, The Dutch Research Council (NL)	Joint solutions for multiple environmental crises: Achieving sustainable transitions in agriculture through affect.	Co-I	€143, 750 (total: €300,000)
2020	Global Challenges Research Fund, Arts and Humanities Research Council (UK)	Sons and daughters of soil: Supporting Global South urban and peri-urban food producers via transdisciplinary partnership	PI	£199,506
2020	Biotechnology and Biological Sciences Research Council (UK)	H3: Healthy Soil, Healthy Food, Healthy People	Co-I	£60,061 (total: £3,463,149)
2020	EC Horizon2020 (EU)	AgroEcoLLNet: The European Agroecology Living Lab and Research Infrastructure Network: Preparation phase	Co-I	£33,269 (total: €2,154,175)
2020	UK Research and Innovation (UK)	The local as a site of food security resilience in the times of pandemic: opportunities, challenges and ways forward.	PI	€228,576
2019	Research England, QR Policy Funding (UK)	Knowledge support needs of farmers in sustainable soil management practices.	PI	£28,766
2019	University of Wollongong, (Australia)	A land ethic for the Anthropocene: caring for unsettling land.	PI	£4,800
2019	Higher Education Innovation Fund (UK)	Sense and sense-ability: empowering land managers to pursue soil health.	PI	£28,140
2019	Sustainable Food Institute, The University of Sheffield, (UK)	PhD project, 'Utilizing the soil microbiome for sustainable agriculture in the UK'	Co-PI	£100,000
2018	Biotechnology and Biological Sciences Research Council (UK)	Metagenomics and soil health: supporting farmers' decisions?	PI	£41,893
2018	Grantham Institute, The University of Sheffield (UK)	PhD project, 'The rhizosphere and soil health'	Co-PI	£100,000
2017	Grantham Institute, The University of Sheffield (UK)	PhD project, 'Knowing soils, strengthening rural livelihoods'	Co-PI	£100,000
2016	Global Challenges Research Fund, Arts and Humanities Research Council (UK)	Amplifying the voice of the "sons and daughters of soil" in sub-Saharan Africa	PI	£6,500
2016	Grantham Opportunities Fund, The University of Sheffield (UK)	Rediscovering soils: knowledge and care in the worlds of soil	PI	£9,800
2016	Grantham Institute, The University of Sheffield (UK)	PhD project, 'Assessing the potential of no-till farming across European soils'	Co-PI	£100,000
2015	The Leverhulme Trust, Early Career Research Fellowship	A nation that destroys its soils destroys itself. Knowledge, care and the soil crisis.	PI	£307,353

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## **Interdisciplinary research and science-policy leadership.**

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### **Horizon Europe Mission ‘Soil Deal For Europe’, Member of the Advisory Board, 2022 – current**

Advice and support to the Soil Mission at highest levels EU funding and institutional levels; leading the Working Group on Transdisciplinary Soil Research. Contractual appointment.

### **Member of the Board of The Finnish Society for Environmental Social Science (YHYS), 2023- current**

#### **Advisory Board member, *Trace: Journal for Human-Animal Studies*, 2023 - current**

### **Finnish Academy of Science National Expert Group of Horizon Europe Cluster 6, 2022 - 2023**

Advice to the Finnish Academy of Science, especially on transdisciplinary approaches in the current and future Horizon Europe Cluster 6 (Food, Bioeconomy, Natural resources, Agriculture and Environment).

### **International Union of Soil Sciences, Co-chair, Commission ‘Soil humanities & social sciences’, 2022-current**

I am the only social scientist to be appointed as a scientific officer of the IUSS; the commission spear-heads transdisciplinary soil research.

### **The European Union, DG Agriculture and Rural Development, 2021. Consultant.**

### **Member of the Advisory Board, the Institute of Advanced Studies (IAS), Durham University, UK. 2019-2022.**

Advice on interdisciplinary and transdisciplinary strategies of this renowned interdisciplinary institute.

### **Member of the Anthropogenic Soils Collaboratory, University of Oslo OSEH, 2019 - current**

#### **Associate Editor, *Environmental Humanities*, 2021 -current**

I was appointed as an Associate Editor to this prestigious journal following a competitive application process, which indicates the international and interdisciplinary reach of my work and my high professional standing.

### **Soil Care Network: [soilcarenetwork.com](http://soilcarenetwork.com), 2017 - current**

I founded the Soil Care Network in 2017; the Network is unique in bridging disciplinary and geographical boundaries, and today numbers over 600 members who actively participate via a listserv and a monthly newsletter.

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## **Institutional leadership.**

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### **Biodiverse Anthropocenes program, University of Oulu, 2022 – current**

Within this multi-million program funded by the Research Academy of Finland, I co-lead the transdisciplinary Citizen Science group. To date this has included the co-leading of the Citizen Science semester (spring 2023), with a series of 4 international events and a Masterclass; and the leadership of CinemANTS, a series of 6 film and video workshops.

### **Associate Director, Pillar 2: Transformative and Translational Research, Institute for Sustainable Food at the University of Sheffield, UK. 2018-2022.**

Responsible for creating transdisciplinary collaborations between different faculties and external stakeholders in food research.

### **Co-lead, the Geography Early Career Researcher Network, The University of Sheffield. 2020-2022.**

In order to support the career development and create collegiality during the Covid-19 pandemic, in 2020 I created an interdisciplinary network for early career researchers from both physical and human geography.

### **Research Staff Representative, Department of Geography, The University of Sheffield. 2019-2022.**

Represented the concerns and interests of the research-only staff members to the Departmental management board, and acted as main point of communication for research-staff relevant issues.

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## **International esteem: invited lectures and panel discussions (2017-onwards).**

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**European Commission's Directorate-General for Research and Innovation, 2023, panel speaker ‘Food systems and soil health’, *Food 2030: Green and Resilient Food Systems*, Brussels, Belgium, 5<sup>th</sup> December.**

**European Commission's Directorate-General for Agriculture and Rural Development**, 2023, keynote talk 'Social, economic, and cultural transformation for soil health', *European Soil Week*, Madrid, Spain, 22<sup>nd</sup> November.

**Baltic Sea Action Group**, 2023, panel discussion 'What strategies for soil sustainability?', *4 per 1000 North Europe Regional Meeting*, Helsinki, Finland, 9<sup>th</sup> June.

**University of Maine**, 2023, 'Soil health – towards a 'microbial agriculture'?', *MSE seminar series*, online, 19<sup>th</sup> April.

**Technology Agency of the Czech Republic**, 2023, keynote 'Transformations towards healthy soil', *SOILCON: Ground for future cooperation in Europe*, Prague, Czechia, 18<sup>th</sup> September.

**Zone2Source**, 2022, 'Soil sensing', *Soil Talks at the Our Living Soil program*, Amsterdam, the Netherlands, 16<sup>th</sup> September.

**Oxford University**, 2022, 'Towards Gaian collectives', *Seminar series of the Department of Geography*, Oxford, UK, 11<sup>th</sup> February.

**Grenoble Alpes University**, 2021, 'Combing back to Earth through soils: Gaian collectives', *Sols et sous-sols dans la transition socioécologique*, Grenoble, France, 9<sup>th</sup> June.

**Wageningen University**, 2021, 'Coming back to Earth: re-grounding rural sociology', *75<sup>th</sup> Anniversary of Rural Sociology Seminar Series*, Wageningen, the Netherlands, 28<sup>th</sup> April.

**Bristol University**, 2020, 'Towards Gaian collectives: attending to soil, becoming earthy', *Political Ecology Seminar Series*, Bristol, UK, 5<sup>th</sup> December.

**Institute of Aesthetic Practice and Theory IAeP**, 2020, 'Unsettling soils: Gaian apparatuses for paying attention to soil microbes', *Techniques Matter. Researching More-Than-Human Worlds*, Basel, Switzerland, 7<sup>th</sup> May

**Nottingham University, Institute for Science and Society**, 2019, 'Coming to our senses: reconstructing place through soil sensing', invited speaker at the *STS4C Mobile Seminar: More-than-human? Ecology, Society and Interspecies Worlds*, Nottingham, 19<sup>th</sup> November

**The University of Edinburgh, School of Social and Political Science**, 2017, 'Caring for soil life, surviving the Anthropocene', invited speaker at the *Science, Technology and Innovation Studies seminar series*, Edinburgh, 9<sup>th</sup> October.

**Aarhus University, the Department of Agroecology**, 2017, 'Being a good 'soil' farmer? The uneasy relation between 'soil health' and 'good farming' in British agriculture', invited speaker at the *Agroecology seminar series*, Aarhus, Denmark, 14<sup>th</sup> September.

**Tubingen University**, 2017, 'Choreographing cares: the uneasy materiality of soil in English agriculture', invited speaker at the *'Anthropology of Soils' workshop*, Tubingen, Germany, 27<sup>th</sup> January.

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## Research supervision and leadership experience.

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### Supervision of doctoral students

1. Paula Palanco Lopez, 2023-ongoing- 'Antimicrobial resistance: a multi-species approach'. Anthropology, University of Oulu.
2. Naveed Imran, 2023-ongoing. 'Sustainable Forest Governance: Case Studies of Finland and Pakistan'. Anthropology, University of Oulu.
3. Hannah McCarrick, 2017-ongoing. 'Knowing soils, strengthening rural livelihoods'. Geography, University of Sheffield.
4. Mary Liza, 2019-2023. 'Utilizing the soil microbiome for sustainable agriculture in the UK'. Animal and Plant Sciences, University of Sheffield.
5. Nancy Muringai, 2018-2022. 'The rhizosphere and soil health'. Animal and Plant Sciences, University of Sheffield.
6. Jennifer Veenstra, Geography, 2016-2021. 'Assessing the potential of no-till farming across European soils'. Geography, University of Sheffield.

## **Leadership of research projects**

### **As Principal Investigator:**

1. Dr Anatolijs Venovcevs, 2023-2026. Post-doctoral Research Associate on the project 'Mushroom methods: multispecies approaches to forest sustainability.'
2. Dr Jelena Salmi, 2023. Post-doctoral Research Associate on the project 'Governance of soil biodiversity in Finland'.
3. Dr Selen Eren, 2023-2025. Post-doctoral Research Associate on the project 'MicroBio: a microbial basis of the sustainable bioeconomy'.
4. Dr. Stephen Jones, 2020-2021, Post-doctoral Research Associate on the project "The local as a site of food security resilience in the times of pandemic: opportunities, challenges and ways forward".
5. Dr Stephen Jones, 2019-2020, Post-doctoral Research Associate on the project "Sense and sense-ability: empowering land managers to pursue soil health".
6. Dr. Samantha Outhwaite, 2018-2019, Post-doctoral Research Associate on the project "Metagenomics and soil health: supporting farmers' decisions?".

### **As Co-Investigator:**

Dr. Coline Jaworski, 2021-2022, Post-doctoral Research Associate on the project "H3: Healthy Soil, Healthy Food, Healthy People".

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## **Public and policy engagement.**

### **UKSoils.org, 2020 - 2022**

On World Soil Day 5th December 2020 I launched UKSoils.org in collaboration with colleagues at the Sustainable Soils Alliance, Centre for Ecology and Hydrology, Scottish Rural College, and Earthwatch International to connect UK groups and organisations working to protect and enhance soil health.

### **Sustainable Soils Alliance, 2016 – 2022**

Since the inception of this important think tank and policy lobbying group, I have acted as their social scientific adviser working closely with the UK Government's Department for Food, Environment and Rural Affairs to integrate soils into the post-Brexit UK legislation.

### **The Public Waste Agency of Flanders (OVAM), Ghent, Belgium, 2019 - 2021**

Expert advisor to OVAM on their work developing Soil+Land Stewardship policies. OVAM are the principal authority in the Belgian region of Flanders for sustainable management of waste, materials and soils.

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## **Other academic merits.**

### **PhD examining.**

2021, Leila Clare El-Qawas, "The poetics of radical herbalism", ESALA, Edinburgh College of Art, University of Edinburgh

2021, Roberta Fabrizi, Animal and Plant Sciences department, the University of Sheffield. Internal examiner.

2020, Barley Blyton, Department of Geography, the University of Sheffield. Internal examiner.

2020, Serena Zanzu, "Humans, Microbes and Soils A Multi-sited Ethnography", Sociology, Warwick University.

### **Peer review of funding applications.**

**Acted as grant reviewer for the following national and international funders in both social and natural sciences:**

UK Research and Innovation Economic and Social Research Council (ESRC) (2016), UK Research and Innovation Natural Environment Research Council (2018), The Marsden Fund Council (2019), UK Research and Innovation Biotechnology and Biological Sciences Research Council (2020), European Research Council (2021).

### **Referee for scientific publications.**

#### **I have acted as reviewer for the following academic journals and publishers:**

Ahsgate; Annals of the Association of American Geographers; Antipode; Agriculture and Human Values; BioSocieties; Dialogues in Human Geography; Environmental Humanities; European Journal of Soil Science; Environmental Science and Policy; Feminist Review; Food and Foodways; Geographical Journal; Global Environmental Change; Journal of Rural Studies; Landscape; Resources; Science, Technology and Human Values; Soil Use and Management; Transactions of the Institute of British Geographers; Urban Studies.

### **Organization of conferences, workshops and sessions (since 2017).**

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Krzywoszynska, A., Palanco Lopez, P. (2023) 'Permeable bodies and the 'microbial commons'', *(Un)common Worlds Conference*, University of Oulu, Finland, 4<sup>th</sup> October.

Krzywoszynska, A., Toland, A. (2023) 'From soil to soiling: exploring the agency of soils across research fields', *Transdisciplinary in the Environmental Humanities Symposium*, Oslo School of Environmental Humanities, Oslo, Norway, 7<sup>th</sup> September.

Krzywoszynska, A., Bankowska, A. (2023) 'Making "good relations" in more-than-human worlds', *Finnish Anthropological Society Conference*, Rovaniemi, Finland, 22<sup>nd</sup> March

2023, *Mushroom methods*, University of Oulu. A three-day symposium featuring international speakers and attendees to develop a new research agenda on mushroom research, see [mushroomethodsgroup.com](http://mushroomethodsgroup.com)

Toland, A., Krzywoszynska, A. (2022) "Composting the We", *World Congress of Soil Science*, Glasgow, Scotland, 4<sup>th</sup> August

Krzywoszynska, A., Münster, D., Holmsted, J. (2022) "Soils as sites of emergency and transformation", *Nordic Environmental Social Science conference*, Gothenburg, Sweden, 7-9 June

2021, *Food us our common language*, the University of Sheffield 16<sup>th</sup> April. The Institute for Sustainable Food at the University of Sheffield inaugural conference, 5 sessions, 15 speakers, 300 attendees.

Gaillardet, J., Banwart, S., Krzywoszynska, A., Latour, B. (2019) "Critical Zone: from natural to social sciences", American Geosciences Union Fall Meeting, San Francisco, 12<sup>th</sup> December, 3 sessions.

Krzywoszynska, A. (2019) "Embedding soil stewardship in UK's agri-food systems", *N8 Agri-food conference*, York, 22<sup>nd</sup> October.

Veenstra, J., Krzywoszynska, A., (2019) "Are we still troubled by interdisciplinarity?", *RGS-IBG Annual Conference*, London, 28<sup>th</sup> August

Krzywoszynska, A. Outhwaite, S., (2019) "Trouble in the land", *RGS-IBG Annual Conference*, London, 29<sup>th</sup> August

Krzywoszynska, A., Evans, J., McLeod, C., Sexton, A. (2018) Geo: Geography and Environment-sponsored session – Mapping microbial ontologies, *RGS-IBG Annual International Conference*, Cardiff, UK, 29<sup>th</sup> August.

Krzywoszynska, A. (2017) *Conference "Re-discovering soils: knowledge and care in the worlds of soil"*, the University of Sheffield, 19-21<sup>st</sup> June.

### **Conference and seminar presentations given (since 2017).**

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Krzywoszynska, A., Salmi, J. (2023) Making worlds through governing soil biodiversity: Why is environmental DNA (eDNA) gaining traction in Finnish land governance?, YHYS Annual Meeting, University of Eastern Finland, Joensuu, FI, 24<sup>th</sup> December.

Salmi, J., Krzywoszynska, A. (2023) Making worlds through governing soil biodiversity: Why is environmental DNA (eDNA) gaining traction in Finnish land governance?, *(Un)common Worlds conference*, University of Oulu, Oulu, FI, 4<sup>th</sup> October.

Krzywoszynska, A. (2023) Transformation towards healthy soil, SOILCON: Ground for future cooperation in Europe, Technology Agency of the Czech Republic, Prague, CZ, 9<sup>th</sup> September.

Krzywoszynska, A., (2023) Anxiety and enchantment: encountering soil life, Finnish Anthropological Society Conference, Rovaniemi, FI, 22<sup>nd</sup> March.

Krzywoszynska, A., Jaworski, C., Leake, J., and Dicks, L. (2023) Soil biodiversity and sustainable soil management in the UK, Global Soil Biodiversity Conference, Dublin, IR, 14th March.

Krzywoszynska, A., Jaworski, C., Leake, J., and Dicks, L. (2023) Sustainable soil management in the UK: a survey of current practices and how they relate to the principles of regenerative agriculture, *Soil Science Days*, Helsinki, FI, 10th January.

Maye, D., Krzywoszynska, A., Jones, S. (2022) Riding the waves: the long experience of the Covid-19 pandemic amongst local food system actors, RGS-IBG Annual Conference, London, UK; 30th August.

Black, J. Maye, D., Krzywoszynska, A., Jones, S. (2022) The framing of local food in the Covid-19 pandemic: a policy review of mainstream and local food reports in the UK, RGS-IBG Annual Conference, London, UK; 30th August

Krzywoszynska, A. (2022) "Anxious encounters: becoming response-able to living soils", Nordic Environmental Social Science Conference, University of Gothenburg, SE, 14th June.

Banwart, S., Krzywoszynska, A., Green, L., Warnes, A. (2021) Entering Earth's Critical Zone – a zone of converging thought and action, 1st OZCAR TERENO international conference: Advancing critical zone science, Strasbourg, FR, 4th October.

Jones, S., Krzywoszynska, A., Maye, D. (2021) The resilience of UK local food actors during the first wave of COVID-19, RGS-IBG Annual Conference, London, UK; 30th August.

Krzywoszynska A., Banwart, S., Blacker, D. (2019) 'Sensing and place-making in the Critical Zone', American Geosciences Union, San Francisco, USA, 12th December.

Outhwaite, S., Krzywoszynska, A. (2019) Human-Nonhuman Foldings: Understanding perceptions of soil liveliness through hopeful soil management knowledge-practices, RGS-IBG Annual Conference, London, UK; 30th August.

Krzywoszynska, A. (2019) Let the soil do the work for you: making soils a resource and the role of microbial labor, RGS-IBG Annual Conference, London, UK, 30th August.

Outhwaite, S., Krzywoszynska, A. (2019) From muck n magic to soil health: Quantifying the 'lively invisible' in a more-than-human world, RGS-IBG Annual Conference, London, UK, 30th August.

Veenstra, J., Krzywoszynska, A., (2019) Disciplining interdisciplinarity? Supervising and doing interdisciplinary PhDs, RGS-IBG Annual Conference, London, UK, 28th August.

Krzywoszynska A., Banwart, S., Blacker, D. (2019) 'Developing actionable soil knowledge in the Critical Zone', Critical Zone Conference, Hamburg University, Hamburg, DE, 22nd February.

Krzywoszynska, A., Evans, J., McLeod, C., Sexton, A. (2018) 'Mapping microbial multiplicity', RGS-IBG Annual International Conference, Cardiff, UK, 29th August.

Krzywoszynska, A. (2018) 'Being a good 'soil farmer'? The uneasy relation between "soil health" and "good farming" in British agriculture. 21 World Congress of Soil Science, Rio de Janeiro, Brazil, 17th August.

Krzywoszynska, A. (2017) 'Caring for soil life, surviving the Anthropocene', Knowledge, Culture, Ecology Conference, Santiago de Chile, Chile, 15th November.

Krzywoszynska, A. (2017) 'Opening up the participation laboratory', Science in Public Conference, University of Sheffield, Sheffield, UK 11th July.

Krzywoszynska, A. (2017) 'Knowledge and care in the worlds of soil', Re-discovering soils workshop, Department of Geography, The University of Sheffield, Sheffield, UK, 20th June.

## **Other published outputs.**

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### **Reports.**

Krzywoszynska, A., Jones, S., and Maye, D. (2022). A force for good: A vision, models, and pathways for a local food sector which transforms lives, livelihoods and landscapes. Project Report. Zenodo. doi.org/10.5281/zenodo.6023241

Black, J., Maye, D., Krzywoszynska, A., and Jones, S. (2022) How is 'the local' framed in UK system food debates? A review of mainstream and local food sector reports during the Covid-19 pandemic. Project Report. Zenodo. doi.org/10.5281/zenodo.6378946

Krzywoszyńska, A., Jones, S. and Maye, D. (2022) Riding the waves. The long perspective on the COVID-19 pandemic from UK's local food system actors in 2020-21. Project Report. Zenodo. doi.org/10.5281/zenodo.6380040

Jones, S., Krzywoszyńska, A., and Maye, D. (2022). Resilience and transformation. Resilience of the UK's local food sector to the first wave of the COVID-19 pandemic. Project Report. Zenodo. doi.org/10.5281/zenodo.6380015

Krzywoszyńska, A. (2016) Nexus Network Fellowship report: Nexus approaches at Defra  
http://eprints.whiterose.ac.uk/96202/

### **Deliverables.**

Göldel, B., Krzywoszyńska, A., Mambrini-Doudet, M., Mcphee, C. (2022) Deliverable 1.2 Definitions and a set of inclusion criteria for agroecology living labs, pertinent, research infrastructures and their synergies, ALL-Ready Project Grant Agreement No 101000349

Mambrini-Doudet, M., Göldel, B., Krzywoszyńska, A., Mcphee, C. (2022) Deliverable 1.3 AgroEcoLLNet Vision and mission document, ALL-Ready Project Grant Agreement No 101000349

### **Non-peer reviewed articles.**

Krzywoszyńska, A. (2022) Refocusing Living Labs on shared problem frames, a response to Bouma, J. "Transforming "Living Labs" into: "Lighthouses": a promising policy to achieve land-related sustainable development?" EGU sphere [preprint], <https://doi.org/10.5194/egusphere-2022-307>, 2022

### **Other outputs.**

Buckley, A., Chiles, P., Gregson, N., Holmes, H., Krzywoszyńska, A., Mawyin, J., Watson, M. (2015) Interdisciplinary toolkit: Getting the most from interdisciplinarity, The University of Sheffield, <http://www.sheffield.ac.uk/idtoolkit>

### **Popular press and public impact.**

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In addition to the materials listed below, I have contributed through expert statements and interviews to a number of press publications and media materials, including most recently The Guardian ([www.theguardian.com/environment/2019/aug/08/how-climates-impact-on-land-threatens-civilisation-and-how-to-fix-it](http://www.theguardian.com/environment/2019/aug/08/how-climates-impact-on-land-threatens-civilisation-and-how-to-fix-it), [www.theguardian.com/environment/video/2019/jul/11/its-time-we-stopped-treating-soil-like-dirt-video](http://www.theguardian.com/environment/video/2019/jul/11/its-time-we-stopped-treating-soil-like-dirt-video)), and the Preserve Journal ([thepreservejournal.com/](http://thepreservejournal.com/)). I am quoted extensively in a recent popular science book Warner, A. (2021) "Ending Hunger: The quest to feed the world without destroying it", London: Simon and Schuster

Krzywoszyńska, A. (2020) IPCC's land report shows the problem with farming based around oil, not soil, The Conversation, <https://theconversation.com/ipccs-land-report-shows-the-problem-with-farming-based-around-oil-not-soil-121643>

Krzywoszyńska, A. (2019) What is it like to do sustainable soil management?, Direct Driller 6: 40-23. [https://issuu.com/directdriller/docs/direct\\_driller\\_magazine\\_issue\\_6](https://issuu.com/directdriller/docs/direct_driller_magazine_issue_6)

Krzywoszyńska, A. (2018) Soil: Private asset or public good?, Sustainable Soils Alliance Supporter Contributions, <https://sustainablesoils.org/member-supporter-contributions/>

Evans, J., Krzywoszyńska, A., Mcleod, C., Sexton, A., Szymanski, E. (2018) Mapping Microbial Multiplicity, Geo: Geography and Environment Blog, <https://blog.geographyandenvironment.com/2018/08/22/mapping-microbial-multiplicity/>

Krzywoszyńska, A. (2017) Making soils count in UK policy, Soil Care Network blog, <https://www.soilcarenetwork.com/single-post/2017/10/25/Making-soils-count-in-UK-policy>

### **Language skills**

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<b>English</b>	Fluent spoken and written.
<b>Italian</b>	Fluent spoken and written.
<b>Polish</b>	Native.



**Finnish**      Basic spoken and written.