

Dr Emma Shuttleworth career history

Academic Appointments and Qualifications

Aug 2023 – present	Senior Lecturer in Physical Geography, School of Environment, Education and Development, University of Manchester
Dec 2019 – Jul 2023	Lecturer in Physical Geography, School of Environment, Education and Development, University of Manchester
Sep 2014 – Nov 2019	Research Associate, 'Protect-NFM' (2018-19) and 'Making Space for Water' (2014-17), School of Environment, Education and Development, University of Manchester
Sep 2009 – Sep 2014	PhD in peatland geomorphology, School of Environment, Education and Development, University of Manchester

Career highlights

I have fifteen years of research experience in UK landscape degradation and restoration, which includes:

- **Research funding** totalling ~£8.25 million (£1.2 million as PI) from a range of sources, including UKRI, Innovate UK, UK Government, EU LIFE and NGOs.
- **26 publications** in peer-review journals, books and book chapters (plus 2 in review) covering: (i) sediment, carbon and pollutant export in degraded and restored peatlands; (ii) natural flood management; (iii) science communication and state of discipline.
- **10 reports to funders** of peatland restoration projects, including the final reports of the Defra funded Making Space for Water blanket bog restoration project, the IUCN Peatland Programme commission of inquiry on Peatland Hydrology, and interim and final reports for the EU LIFE funded MoorLIFE 2020.
- **Working closely with land management practitioners and stakeholders** including National Trust, IUCN Peatland Programme, Yorkshire Peat Partnership, Moors for the Future Partnership, Lancashire Wildlife Trust, Environment Agency, Natural England, United Utilities, SEPA, NRW.
- **Presenting** at national, international and practitioner conferences and seminars, including 6 invited talks.
- Co-ordination of exhibits on peatland restoration at **science festivals** such as Bluedot and the NERC Into the Blue research showcase. Scientific advisor in the development of *Downpour!* – an interactive street game aimed at engaging the public in flood risk management.

Membership of academic and professional bodies

2010 – present	British Society for Geomorphology (Current – Windsor Workshop co-ordinator; Past – Chair postgrad forum)
2011 – present	European Geosciences Union (Past – Early Career Representative: Geomorphology)
2017 – present	British Hydrological Society
2017 – present	British Ecological Society

Selected Organisation of Scientific Meetings and Workshops

2022 – present	EGU, Vienna: Peatland Hydrology session (convenor)
2019	IALE World Congress, Milan: Working with Natural Processes session and panel (chair)
2018	IUCN UK Peatland Programme, Peatland Hydrology Inquiry workshop (convenor)
2015 – 2018	EGU, Vienna, various ECR workshops (convenor)
2014	BSG 2014 Annual Meeting, Manchester (organising committee)

Other Evidence of Academic and Professional Standing

2020 – present	Environmental Processes Research Group Lead, University of Manchester
2016 – present	Currently supervise 3 PDRAs, 4 PGRs and 2 research technicians, plus 3 recently completed PGR students (passed 2021-2024) and 5 former undergrad interns (2018-2022).
2016 – present	Member of School Athena SWAN Silver and Bronze self-assessment teams (both awarded)

Recent Research Grants and Consultancy

Date	Role	Project title	Funder
2025-2027	PI	Irwell Catchment Partnership KTP	Innovate UK
2023-2025	Joint PI	<i>Sphagnum</i> moss on the hills (SMOOTH)	UoM internal grant
2023-2025	Academic PI	Holcombe Moor Nature for Climate (with National Trust)	Natural England/National Trust consultancy
2023-2024	PI	Wigan Greenheart Landscape Recovery GHG monitoring	Lancashire Wildlife Trust
2023-2024	Co-I	Radiocarbon dates: Palaeoecological Study to Inform Restoration of Greater Manchester's Wetlands	NERC NEIF
2022-2024	Co-I	Disturbance and Restoration of Metal Contaminated Peatlands	NERC Global Partnerships Seedcorn (NE/X002756/1)
2022-2024	PI	Restoring steep bare peat (ReSTART)	National Trust consultancy
2022-2024	Joint PI	Peatfix: Innovative approaches to peatland restoration	Innovate UK
2021-2024	Academic PI	Great North Bog (with Yorkshire Peat Partnership)	Natural England
2017-2024	Researcher Co-I	Protect-NFM (Optimising Natural Flood Management in Headwater catchments to Protect Downstream Communities)	NERC (NE/R004560/1) with follow on funding from UoM

Selected recent publications

- Majhi, A., Harris, A., Evans, M. and **Shuttleworth, E.**, (2024) Gullies and badlands of India: Genesis, geomorphology and land management. *Earth Surface Processes and Landforms*, 49(1), pp.82-107.
- Howson, T., Evans, M., Allott, T., **Shuttleworth, E.**, Johnston, A., Rees, J., Milledge, D., Edokpa, D., Lockyer, C., Kay, M. and Spencer, T., (2023) Peatland gully restoration with stone and timber dams (Kinder Plateau, UK). *Ecological Engineering*, 195, p.107066.
- Schillereff, D., Clarke, L., **Shuttleworth, E.** and Alderson, D., (2023) Evaluating success in a changing academic landscape. *Earth Surface Processes and Landforms*, 48(12), pp.2387-2394.
- McCarter, C.P., Clay, G.D., Wilkinson, S.L., Page, S., **Shuttleworth, E.L.**, Davidson, S.J., Taufik, M., Sigmund, G. and Waddington, J.M., (2023). Peat fires and the unknown risk of legacy metal and metalloid pollution. *Environmental Research Letters*, 18(7), p.071003.
- Alderson, D., Clarke, L., Schillereff, D. and **Shuttleworth, E.**, (2023) Navigating the academic ladder as an early career researcher in earth and environmental sciences. *Earth Surface Processes and Landforms*, 48(2), pp.475-486.
- Huggett, R. and **Shuttleworth, E.**, (2022) *Fundamentals of geomorphology*. 5th ed. Routledge.
- Allott, T.E.H., Blundell, A., Chandler, D., Evans, M.G, Margetts, J.J., Moody, C.S., Pilkington, M.G., Rees, J., Ritson, J.P, **Shuttleworth, E.L**, Spencer T. (2022). *Monitoring the biodiversity and ecosystem service impacts of restoration of degraded blanket bog sites*. Final report of the MoorLIFE 2020 project Action D2: Moors for the Future Partnership, Edale.
- Usher, M., Huck, J., Clay, G., **Shuttleworth, E.L.**, Astbury, J. (2021) Broaching the brook: daylighting, community and the "stickiness" of water. *Environment and Planning E: Nature and Space*. 4 (4), 1487-1514
- Shuttleworth, E.L.**, Evans, M.G., Pilkington, M., Spencer, T., Walker, J., Milledge, D., Allott, T.E.H. (2019) Blanket peat restoration leads to reduced storm runoff from headwater systems. *Journal of Hydrology X* 2, 100006.
- Allott, T., Aunon, J., Dunn, C., Evans, M., Labadz, J, Lunt, P., MacDonald, M., Nisbet, T., Owen, R., Pilkington, M., Proctor, S., **Shuttleworth, E.L.**, Walker, J. (2019) Peatland Catchments and Natural Flood Management *IUCN UK Peatland Programme Commission of Inquiry*.
- Wendler, J., **Shuttleworth, E.L.** (2019) Downpour! – Climate change communication through interactive immersive street games. *Research for All* 3(1), 18 – 24.