

# Prof Mark Reed BSc (Hons) MSc PGCLTHE PhD

**Professor of Rural Entrepreneurship**  
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**Visiting Professor** at Newcastle University, University of Leeds and Birmingham City University

**Address:** Agriculture Building, Newcastle University, Newcastle upon Tyne NE1 7RU

**Date of birth:** 7<sup>th</sup> March 1975

**Nationality:** British

**Family status:** Married with three children (ages 8, 10 and 13)

**Personal interests:** family time, reading, listening to new music, clubbing, stamp collecting, art, poetry, spiritual practice, nature, walking, cycling, gardening, botanising, single malt whisky

**Website:** [www.profmarkreed.com](http://www.profmarkreed.com)

## Research interests, vision and approach

I am a transdisciplinary researcher specializing in environmental governance and research impact.

My vision is to:

- Enhance the sustainability and resilience of peatlands and agri-food systems
- Change the way researchers around the world generate and share knowledge so they can change the world

My research builds on strong personal values, based on the generation of knowledge and impact through empathy. My approach to research is inclusive and collaborative, facilitating interdisciplinary and transdisciplinary teams to achieve novel insights whilst generating tangible benefits for society. My research and impact keeps my teaching on the cutting edge, so I can motivate and inspire students to affect change through their careers. I believe that now, more than ever before, we need to come together as a community to tackle the major challenges the world faces. This belief underpins my vision, gives me hope and drives everything I do.

# Highlights

## Publications:

- Author/co-author of >100 international journal articles (34 as lead or corresponding author), 3 books and 60 book chapters and reports with >200 co-authors from 30 countries (averaging a rate of 8 publications per year since completing my PhD in 2005)
- H index: 56 according to Google Scholar based on >19,000 citations
- 53% of my publications are in the top 10% most cited worldwide and 12% in the top 1% most cited worldwide
- 4 of my papers have been cited >1000 times (my most cited paper has >3000 citations) and 37 of my papers have been cited >100 times (14 as lead or corresponding author)
- 69% of my papers are published in the top 10% of journals (based on CiteScore percentiles)

## Funding:

- Led 18 projects as PI worth a total of £3.8M (two worth >£1M)
- Contributed to a further 27 projects as Co-I, Work Package leader or equivalent, worth approximately £4M to my institution (total value of these projects is around £30M)
- 45% of my time is currently covered on funded projects

## REF contribution:

- **REF2021 outputs:** internal grading of the sub-set of papers suitable for UoA6 (agriculture) suggests two 3\*, one 3 or 4\* and two 4\* papers, and two 4\* papers identified by other Universities (not graded by Newcastle due to poor fit with UoA6)
- **REF2021 impact case study:** graded internally by Newcastle University in the top two (out of five to be submitted) and deemed among the most likely to get 4\*
- **REF2014:** Led Birmingham City University's UoA16 (planning & architecture) REF2014 submission, contributed an impact case study that was graded 3\* (by the UoA16 panel), and was submitted as a 4\* researcher (2 papers were clear 4\* and 2 papers were either 3\* or 4\* according to at least 2 independent pre-reviewers per paper, corroborated by pre-review assessments by other Universities submitting these papers)

## Academic roles and positions:

- Core member of BBSRC Bioscience for Sustainable Agriculture and Food Strategy Advisory Panel. Member of funding panels for GCRF, UKRI Future Leader Fellowships, BBSRC, ESRC, NERC, ESPA and the EU Biodiversa programme and have reviewed proposals for the British Academy, Leverhulme, and for Dutch, Austrian, German, Swedish, South African and Swiss research funders. Invited by BBSRC to evaluate the UK Research Councils' Insect Pollinator Initiative (2013).
- Advised on impact to as a member of the Programme Advisory Group for NERC's Biodiversity, Ecosystem Services and Sustainability programme (2011-2017). Advised and provided training on impact to the NERC Valuing Nature Programme (2015-2018) and the BBSRC Global Food Security programme (since 2018). Advisor on impact to Australian Research Data Commons (ARDC) funded by Australian government
- Handling Editor (Social Sciences) for *Conservation Biology* (impact factor 4.165; ranked 6/44 (Biodiversity Conservation) and 25/223 (Environmental Sciences)) (2016-2018)

**Prizes:**

- Awarded ESRC Michael Young Prize “rewarding the very best early career social scientists whose research has the potential to make a positive and far-reaching impact beyond academia” (2008)
- Voted “best impact” in Rural Economy & Land Use programme for Sustainable Uplands project (2011)
- The Peatland Code (which arose from my work on the Sustainable Uplands project) was shortlisted for the European Union’s Natura 2000 award (2015) and RSPB and Scottish Natural Heritage’s Nature of Scotland Awards (2018)
- My company, Fast Track Impact, was shortlisted as a finalist in the ARMA awards under the impact category (2016), and this work was recognised by a Royal Society award for changing research culture (2018)

**Engagement and impact:**

- I am Research Lead for IUCN UK Peatland Programme and a member of their international Committee on Ecosystem Management. IUCN own the Peatland Code, which I helped develop based on my research in collaboration with UK Government and its devolved administrations & agencies
- I play a prominent role in the UN Global Peatlands Initiative (UNEP and FAO):
  - Chairing their Global Peatlands Research Funding Working Group
  - Leading their work to develop international standards for the collection of peatland research and monitoring data
  - Monitoring and reporting compliance with resolutions passed by UN Environment Assembly, Ramsar Convention and the International Union for the Conservation of Nature (which drew on my research)
  - Speaking at side events organised by the Global Peatland Initiative at UNFCCC COP24 (Poland), COP25 (Spain) and COP26 (UK)
  - I will be a lead and contributing author to chapters in the forthcoming UN Global Peatland Assessment
- Lead author of Impulse Report leading to opening keynote at UN Convention to Combat Desertification (UNCCD)’s Committee for Science & Technology in 2015. This fed into the Convention’s 10 year plan and was extended as a book published by Earthscan/Routledge, with a foreword by the Executive Secretaries of the UNCCD and UNFCCC. The book was cited heavily in the IPCC Special Report on Climate Change and Land (2019)
- Nominated by UNCCD and consulted by UK Government and FAO to scope the IPCC Special Report on Climate Change and Land
- Lead author of a White Paper making recommendations which were delivered in a keynote address to UNCCD COP9 (2010)
- Invited as a co-ordinating author to write a CGIAR working paper that fed into the UNCCD's first Global Land Outlook (2017)
- Invited by GIAR to help design an international research programme for the International Center for Agricultural Research in Dry Areas worth \$50M per year
- Contributing author on the Intergovernmental Platform on Biodiversity and Ecosystem Service (IPBES) Thematic Assessment on Land Degradation and Restoration (2018)
- Member of IPBES Nomination Review Panel to select experts to deliver the IPBES work programme and contributing author on the IPBES Land Degradation and Restoration report
- Member of the Committee on Climate Change's (CCC) Land Use Expert Advisory Group, advising Government on the implementation of recommendations from CCC's Net Zero report (2020)

- Member of Defra's Sustainable Growing Media Technical Committee responsible for phasing out the use of peat in horticulture (since 2012)
- Contributing author to UK National Ecosystem Assessment (NEA) Mountains, Moors & Heaths chapter (2011) and co-led Shared Values Work Package for NEA follow-on (2014)
- Scientific advisor to BBC Education and work has been covered by the Guardian, Radio 4, Radio Scotland and international media
- Founder and CEO of Fast Track Impact, providing evidence-based training to >8000 researchers from >200 organisations in 52 countries since 2015

## Expertise

Research interests include:

- Research impact and stakeholder participation
  - Understanding knowledge and impact (co-)production processes
  - Boundary organisations and knowledge brokerage
  - Managing conflict in the natural environment
  - Stakeholder analysis
  - Participatory scenario development
  - Participatory monitoring and evaluation
  - Participatory modelling
  - Deliberative processes and techniques
  - Shared values for the natural environment
- Environmental governance
  - Social learning
  - Socio-technical innovation and transitions management
  - Adaptive management
  - Resilience and sustainable livelihoods in social-ecological systems
  - Market-based policy instruments including Payments for Ecosystem Services
  - Adapting to climate change in peatland and agri-food
  - Balancing priorities in multi-functional landscapes
  - Food security, land use, conservation and agricultural policy
  - Land degradation processes and sustainable management of drylands and peatlands

## Career History

2016-present	Professor, School of Natural & Environmental Sciences, Newcastle University
2016-present	Visiting Professor, University of Leeds
2016-present	Visiting Professor, Birmingham City University
2013-present	Research Lead, International Union for the Conservation of Nature UK Peatland Programme
2013-2016	Professor, Birmingham School of the Built Environment, Birmingham City University
2012-2013	Reader, Birmingham School of the Built Environment, Birmingham City University
2009-2012	Senior Lecturer, ACES and School of Geosciences, University of Aberdeen
2010-2011	Director, Aberdeen Centre for Environmental Sustainability (ACES)
2010	RELU-funded Defra placement (Nobel House, London)
2009-2010	Deputy Director, Aberdeen Centre for Environmental Sustainability (ACES)
2009-2016	Visiting Fellow, University of Leeds
2007-2009	Senior Lecturer, School of Earth and Environment, University of Leeds
2005-2007	Lecturer, School of Earth and Environment, University of Leeds
2004-2005	RELU Research Assistant (P/T) & PhD student (P/T), University of Leeds
2000-2004	Teaching Fellow (P/T) & PhD student (P/T), University of Leeds
1999-2000	Research Assistant, Dept. of Agriculture & Forestry, University of Aberdeen

## Education

2000-2005	PhD (University of Leeds) Participatory Rangeland Monitoring and Management in the Kalahari, Botswana
2002-2004	Post Graduate Certificate in Learning & Teaching in Higher Education (University of Leeds)
1998-1999	MSc (University of Aberdeen) Agroforestry
1993-1997	BSc hon (University of Aberdeen) Tropical Environmental Science

# Grant income

## Principal Investigator

BBSRC, ESRC, NERC and Scottish Government (Global Food Security programme) (2018-2022) Resilient Dairy Landscapes (£1.5M)

Global Challenges Research Fund, ESRC Impact Accelerator and Research England Higher Education Innovation Fund. (2017-2020) Global Peatlands Network (£78,554)

Natural England (2018-2021) Analysis of social barriers and opportunities to implementing the England Peat Strategy (£98,000)

NERC Valuing Nature Programme (2016-2019) Peatland Tipping Points (£370,000)

ESRC Impact Accelerator Fund (2016-17) Voices of veterinary experience (£7,650)

United Nations (2014-15): Impulse Report for United Nations Convention to Combat Desertification (£30,000)

DEFRA (2012-2013) Understanding Bee Health Stakeholders (£115,000)

DEFRA (2012-2013) PES Pilot: UK Peatland Carbon Code (£25,000)

DEFRA (2012-2013) PES Pilot: Visitor Payback (£25,000)

NERC (2012-2013): Peatland restoration PES scheme with South West Water (£25,000)

DEFRA, Welsh Government, NERC, ESRC and AHRC National Ecosystem Assessment (2012-2013): Shared Values Work Package (£264,000)

NERC Valuing Nature Network (2011-12): Valuing Peatlands (£43,037)

British Academy (Research Development Award) (Dec 2009-2012): Involved - what makes stakeholder participation in environmental management work? (£120,000)

Rural Economy & Land Use (RELU) programme, ESRC and Living With Environmental Change (LWEC) (2005-2011) Sustainable Uplands: learning to manage future change (£1.1M over three phases)

IUCN and RELU (2010) Commission of Inquiry into Peatlands: Technical Reviews (£11,000)

Commission for Rural Communities (2009) Methodological guidance and preliminary evidence appraisal for CRC Uplands Inquiry (£1,000)

Government Office for Science, Department for Innovation, Universities and Skills (2009) Uplands review for Foresight Land Use Futures project (£1,000)

ESRC and US Social Science Research Council (2008) Comparative insights on research investigating dynamics of coupled natural & human systems (£4,530 fellowship)

## Co-Investigator, Work Package leader or equivalent

EU Horizon 2020. (2018-2023) Developing Sustainable Permanent Grassland systems and policies (SUPER-G) (€10M, Co-Investigator)

EU Horizon 2020. (2018-2023) SWEETeners and sweetness enhancers: Impact on health, obesity, safety and sustainability (SWEET) (€9M, Co-Investigator)

EU Horizon 2020. (2016-2021) Soil Care for profitable and sustainable crop production in Europe (€7.6M, Work Package leader)

Royal Society (2019-2021) Developing network ecology to understand and secure resilient food systems in Brazil and Argentina (£444,083, Project Partner)

Defra (2019-2020) Environmental Land Management Scheme (ELMS) Test and Trial with Northumberland National Park (£287,000, Co-I)

Defra (2018-2019) Achieving sustainable intensification by integrating livestock into arable systems - opportunities and impacts (£14,978, Co-I)

NERC (2017-2022) Integrated catchment solutions programme (Yorkshire iCASP) (£4.7M, Impact Evaluation Chair and Co-I)

STFC (2017-2020) Food Network+ (£670,000, Co-I)

Scottish Government (2015) How best to assist communities to engage with decisions on land use, land management, and related services. Review of various tools and approaches to empowering communities in rural Scotland (£55K, Co-I)

Consultative Group on International Agricultural Research (CGIAR) (2015) International Task Force for the CGIAR programme on Dryland Systems (Co-I, £17,000)

WWF (2015) Delivery of the Water Framework Directive through collaborative action between civil society and the private sector (£17K, Co-I)

Scottish Natural Heritage (2014) Peatland Action (£99K, Co-I)

DEFRA (2014) Developing the evidence base on PES Beneficiaries in England (£75,000, Co-I)

DEFRA (2014) Stakeholder deliberation & valuation of Peak District moorland management options framed within a payment for ecosystem services scheme (£12,000, Co-I)

JNCC (2013-2014) BiodivERsA stakeholder engagement toolkit: case studies (£12,000, Co-I)

Scottish Government (2014) Review of the impact of the Scottish Government rural and environment strategic research portfolio on policy and practice (£40,000, Co-I)

United Nations (2013-14) Advancing knowledge on the costs, benefits, trade-offs of sustainable land management in southern Africa's rangelands (€199,000, Co-I)

DEFRA/Natural England (2012-2013) Developing Place-Based PES for the South Pennines (£40,000, Co-I)

DEFRA (2011-12) Payment for Ecosystem Services Best Practice Guidance (£100,000, Co-I)

DEFRA (2011-12) Ecosystem Markets Taskforce Phase 2 (£110,000, Member of Expert Roster)

RELU (2010-2011) Managing Environmental Change at the Fringe (£200,000, Co-I)

DEFRA (2010-2011) Barriers & Opportunities to the Use of Payments for Ecosystem Services (£50,000, Co-I)

Scottish Government (2009) Realising the Potential Contributions of Scotland's Rural Land to Delivering Sustainable Economic Growth (£55,000, Co-I)

ESRC/BBSRC/MRC (2009-2010) Behaviour for Well-being, Environment & Life (£249,000, Co-I & WP leader)

NERC and EU Framework 6 (2009-2011) Ecocycles: Interacting impacts of land use and climate changes on ecosystem processes: from cyclic herbivores to predators of conservation concern (€1.5M, Co-I)

EU Framework 6 (2006-2011) Desertification Mitigation & Remediation of Land (DESIRE) (€9m, WP Leader, developed initial project concept & co-wrote proposal)

Yorkshire Water (2007-2009): Developing an agricultural land management strategy for YW catchments (£99,867, Co-I)

## REF2021 contribution

**Outputs** (grades based on internal Newcastle University reviews):

1. **Probable 4\* output: Reed MS**, Allen K, Attlee A, Dougill AJ, Evans, K, Kenter J, McNab D, Neumann RK, Stead SM, Twyman C, Scott AS, Smyth MA, Stringer LC, Whittingham MJ (2018) A Place-Based Approach to Payments for Ecosystem Services. *Global Environmental Change*
2. **Probable 4\* output:** de Vente J, **Reed MS** (corresponding author), Stringer LC, Valente S, Newig J (2017) How does the context and design of participatory decision-making processes affect their outcomes? Evidence from sustainable land management in global drylands. *Ecology & Society*
3. **Probable 3\* or 4\* output:** Bonn, A., **Reed MS**, Evans, C., Joosten, H., Bain, C., Farmer, J., Emmer, I., Couwenberg, J., Moxey, A., Artz, R., Tanneberger, F., von Unger, M., Smyth, M.A., Birnie, R. (2014) Investing in nature: developing ecosystem service markets for peatland restoration. *Ecosystem Services* 9: 54-65.
4. **Probable 3\* output: Reed MS**, Stringer LC, Fazey I, Evely AC, Kruijsen J (2014). Five principles for the practice of knowledge exchange in environmental management. *Journal of Environmental Management* 146: 337-345.
5. **Probable 3\* output** (according to University of Leeds internal review): Stringer LC, **Reed MS**, Fleskens, Thomas RJ, Le QB, Lala-Pritchard T (2017) A new dryland development paradigm grounded in empirical analysis of dryland systems science. *Land degradation and development*

**Newcastle University impact case study** (probably 4\* according to Newcastle University internal review): Restoring global peatlands for climate benefits

Summary: Newcastle University research has contributed to the design and implementation of the UK's first ever private-public Payment for Ecosystem Service scheme to restore damaged peatlands, the UK's largest terrestrial carbon store, and has led to the promotion of similar initiatives by United Nations conventions and agencies. Research underpinned the Peatland Code, which generated private investment in peatland restoration, and led to over £100 million public investment in restoration to meet climate targets. Newcastle research has been instrumental in shaping, monitoring, and implementation of an International Union for the Conservation of Nature Motion, contributing to creation of new peatland policies in 29 countries, and has led to the integration of private-public partnerships in the United Nations' Global Peatland Initiative.



## Publications

I am the author/co-author of >100 international journal articles (34 as lead or corresponding author), 3 books and 60 book chapters and reports with >200 co-authors from 30 countries. 53% of my publications are in the top 10% most cited worldwide and 12% in the top 1% most cited worldwide.

## Books

**Reed MS** (2018) *The Research Impact Handbook*. 2nd Edition, Fast Track Impact

**Reed MS** (2017) *The Productive Researcher*. Fast Track Impact.

**Reed MS**, Stringer LC (2016) *Land degradation, desertification and climate change: Anticipating, assessing and adapting to future change*. Routledge.

## International peer-reviewed journal publications

(\*corresponding author)

**Reed MS**, Chapman P, Kendall H, Taylor AE, Stewart G, Ziv G, Young D, Blundell A, Kopansky D (in press) Improving the evidence base for delivery of public goods from public money in agri-environment schemes. *Emerald Open Research - Sustainable Food Systems*

Vella S, Carter C, **Reed MS** (in press) What can we learn from anthropology to conduct socially just participatory action research? *Educational Action Research Journal*

Coyne L, Kendall H, Hansda R, **Reed MS**, Williams DJL (in press) A mixed-methods study to explore the role of agri-environmental schemes on the resilience of the English dairy sector. *Land Use Policy*

Fazey I, Schapke N, **Reed MS** et al. (in press) Transforming knowledge systems for life on earth. *Nature Sustainability*

Bell K, **Reed MS** (in press) Tree of Participation: A New Tool for Engagers in Participatory Decision-Making. *Public Policy and Administration*

**Reed MS**, Ferre M, Martin-Ortega J, Blanche R, Dallimer M, Lawford-Rolfe R, Holden J (in press) Evaluating research impact: a methodological framework. *Research Policy*

Rust N, Ptak EN, Graversgaard M, Iversen S, **Reed MS**, de Vries J, Ingram J, Mills J, Neumann R, Kjeldsen C, Muro M, Dalgaard T (2020) Social Capital Factors affecting Uptake of Soil-Improving Management Practices. A review. *Emerald Open Research - Sustainable Food Systems* 2:8

Reichard B, **Reed MS\***, Chubb J, Hall G, Jowett L, Paert A (2020) Pathways to a top-scoring impact case study. *Palgrave Communications* 6: 31

Wreford A, Martin S, **Reed MS** (2019) Evidence-informed climate policy: mobilising strategic research and pooling expertise for rapid evidence generation. *Climatic Change*

Rotz S, Duncan E, Small M, Botschner J, Dara R, Mosby I, **Reed MS**, Fraser EDG (2019) The Politics of Digital Agricultural Technologies: A Preliminary Review. *Sociologia Ruralis*

Evans CD, Baird AJ, Green SM, Page, S.E., Peacock, M., **Reed MS**, Rose, N.L., Stoneman, R., Thom, T.J., Young, D.M., Garnett, M.H. (2019). Comment on: "Peatland carbon stocks and burn history: Blanket bog peat core evidence highlights charcoal impacts on peat physical properties and long-term carbon storage," by Heinemeyer et al. *Geo: Geography and Environment* e00075.

- Baird, A.J., Evans, C.D., Mills, R., Morris, P.J., Page, S.E., Peacock, M., **Reed MS**, Robroek, B.J.M., Stoneman R., Swindles, G.T., Thom T., Waddington, J.M., Young D.M. (in press). Managing peatlands with fire? *Nature Geoscience*
- Shackleton, R.T., Adriaens, T., Brundu, G., Dehnen-Schmutz, K., Estévez, R.A., Fried, J., Larson, B.M., Liu, S., Marchante, E., Marchante, H., Moshobane, M.C., Novoa, A., **Reed MS**, Richardson, D.M. (2018) Stakeholder engagement in invasion science. *Biological Conservation*
- Wyborn, C., Louder, E., Harrison, J., Montambault, J., Montana, J., Ryan, M., Bednarek, A., Nesshöver, C., Pullin, A., **Reed MS** and Dellecker, E. (2018) Understanding the Impacts of Synthesis Research. *Environmental Science and Policy*
- Thomas RJ, **Reed MS**, Clifton K, Appadurai AN, Mills AJ, Zucca C, Kodsi E, Sircely J, Haddad F, von Hagen C, Mapedza E, Woldearegay K, Shalander K, Bellon M, Le QB, Mabikke S, Alexander S, Leu S, Schlingloff S, Lala-Pritchard T, Mares V, Quiroz R (2018) Modalities for Scaling up Sustainable Land Management and Restoration of Degraded Land. *Land Degradation & Development* 29:3272–3284.
- Reed MS**, Bryce R, Machen R (2018) Pathways to policy impact: a new approach for planning and evidencing research impact. *Evidence & Policy* 14: 431-458
- Cvitanovic C, Löf M, Norström A, **Reed MS** (2018). Building university-based boundary organisations that facilitate impacts on environmental policy and practice. *PLoS One*
- Reed MS**, Duncan S, Manners P, Pound D, Armitage L, Frewer L, Thorley C, Frost B (2018). A common standard for the evaluation of public engagement with research. *Research For All*
- Teel TL, Anderson CB, Burgman MA, Cinner J, Clark D, Estévez RA, Jones JPG, McClanahan T, **Reed MS**, Sandbrook C (2018) Publishing social science research in Conservation Biology to move beyond biology. *Conservation Biology*
- Chubb J, **Reed MS** (2018). The politics of research impact: implications for research funding, motivation and quality. *British Politics* 13: 295-311
- Fazey I, **Reed MS** et al. (2018). Ten essentials for action-oriented and second order energy transitions, transformations and climate change research. *Energy Research and Social Science* 40:54-70
- Reed MS**, Vella S, Challies E, de Vente J, Frewer L, Hohenwallner-Ries D, Huber T, Neumann RK, Oughton EA, Sidoli del Ceno J, van Delden H. (2018) A theory of participation: what makes stakeholder and public engagement in environmental management work? *Restoration Ecology* 26: S7-S17.
- Chubb J, **Reed MS** (2017). Epistemic responsibility as an edifying force in academic research: investigating the moral challenges and opportunities of an impact agenda in the UK and Australia. *Palgrave Communications* 3: 20
- Webb N, Marshall N, Stringer LC, **Reed MS**, Chappell A, Herrick J (2017) Land degradation and climate change: opportunities for climate resilience in agriculture, *Frontiers in Ecology and the Environment*
- Stringer LC, **Reed MS**, Fleskens :, Thomas RJ, Le QB, Lala-Pritchard T (2017) A new dryland development paradigm grounded in empirical analysis of dryland systems science. *Land degradation and development*
- Reed MS**, Allen K, Dougill AJ, Evans, K, Stead SM, Stringer LC, Twyman C, Dunn H, Smith C, Rowcroft P, Smith S, Atlee AC, Scott AS, Smyth MA, Kenter J, Whittingham MJ (2017) A Place-Based Approach to Payments for Ecosystem Services. *Global Environmental Change* 43: 92-106
- Kenter JO, **Reed MS**, Fazey I (2016) The Deliberative Value Formation Model. *Ecosystem Services* 21: 208-217.
- Everard M, Kenter JO, **Reed MS** (2016) The ripple effect: Institutionalising pro-environmental values to shift societal norms and behaviours, *Ecosystem Services* 21: 230-240.
- Kenter J, **Reed MS**, Irvine, K.N., O'Brien, E., Brady, E., Bryce, R., Christie, M., Cooper, N., Hockley, N., Fazey, I., Orchard-Webb, J., Ravenscroft, N., Raymond, C., Tett, P., Watson,

- V (2016) Shared values and deliberative valuation: future directions. *Ecosystem Services* 21: 358-371.
- Irvine KN, O'Brien L, Ravenscroft N, Cooper N, Everard M, Fazey I, **Reed MS**, Kenter JO (2016) Ecosystem services and the idea of shared values. *Ecosystem Services* 21: 184-193.
- Kusmanoff AM, Fidler F, Hardy MJ, Maffey G, Raymond CM, **Reed MS**, Fitzsimons JA, Bekessy S (2016) Framing the Private Land Conservation Conversation, *Environmental Science and Policy* 61: 124-128
- Maffey G, van der Wal R, Irvine J, **Reed MS** (2016) Can digital reinvention of ecological monitoring remove barriers to its adoption by practitioners? A case study of deer management in Scotland. *Journal of Environmental Management*
- Raymond CM, **Reed MS**, Bieling C, Robinson G, Plieninger T (2016). Integrating different understandings of landscape stewardship into the design of agri-environmental schemes. *Environmental Conservation* 43: 350-358
- de Vente J, **Reed MS\***, Stringer LC, Valente S, Newig J (2016) How does the context and design of participatory decision-making processes affect their outcomes? Evidence from sustainable land management in global drylands. *Ecology & Society* 21 (2):24
- Tarrason D, Ravera F, **Reed MS**, Dougill AJ, González L (2016) Land degradation assessment through an ecosystem services lens: integrating knowledge and methods in pastoral semi-arid systems. *Journal of Arid Environments* 124: 205-213
- Atlee AC, **Reed MS\***, Carter CE, Scott AJ, Vella S, Hardman M, Neumann RK (2015) Tools for assessing ecosystem services futures: a review. *CAB reviews: Perspectives in Agriculture, Veterinary Science, Nutrition and Natural Resources* 10: 1-13 [No impact factor or citations]
- Reed MS**, Curzon R (2015) Stakeholder mapping for the governance of biosecurity: a literature review. *Journal of Integrative Environmental Sciences* 12: 15-38
- Favretto, N., Stringer, L.C., Dougill, A.J., Dallimer, M., Perkins, J.S., **Reed, M.S.**, Athlpheng, J.R., Mulale, K. (in press). Multi-Criteria Decision Analysis to identify dryland ecosystem service trade-offs under different rangeland land uses. *Ecosystem Services: science, policy and practice*
- Kenter JO, O'Brien L, Hockley N, Ravenscroft N, Fazey I, Irvine KN, **Reed MS**, Christie M, Brady E, Bryce R, Church A, Cooper N, Davies A, Evely A, Everard M, Jobstvogt N, Molloy C, Orchard-Webb J, Ranger S, Ryan M, Watson V (2015). What are shared and social values of ecosystems? *Ecological Economics* 111: 86-99
- Reed MS**, Stringer, L.C., Dougill, A.J., Perkins, J.S., Athlpheng, J.R., Mulale, K., Favretto, N. (2015) Reorienting land degradation towards sustainable land management: linking sustainable livelihoods with ecosystem services in rangeland systems. *Journal of Environmental Management* 151: 472-485
- Reed MS**, Stringer LC, Fazey I, Evely AC, Kruijssen J (2014). Five principles for the practice of knowledge exchange in environmental management. *Journal of Environmental Management* 146: 337-345
- Hessel R, **Reed MS**, Geeson N, Ritsema CJ, van Lynden G, Karavitis CA, Schwilch G, Jetten V, Burger P, van der Werff Ten Bosch MJ, Verzandvoort S, van den Elsen E, Witsenburg K (2014) From Framework to Action: The DESIRE approach to combat desertification. *Environmental Management* 54: 935-950
- Stringer LC, Fleskens L, **Reed MS**, de Vente J, Zengin M (2014) Participatory evaluation of monitoring and modelling of sustainable land management technologies in areas prone to land degradation. *Environmental Management* 54: 1022-1042.
- Reed, M.S.**, Bonn, A., Evans, C., Glenk, K., Hansjurgens, B. (2014) Editorial: Assessing and valuing peatland ecosystem services for sustainable management. *Ecosystem Services* 9: 1-4.
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Martino S, Kenter J, Albers N, **Reed MS**, Whittingham MJ, Young D, Pearce-Higgins J (in prep.) Trade-offs between natural attributes and outdoor facilities in peatlands recreational activities under different management scenarios

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- Reed MS** (2009) Best practice stakeholder participation for conservation. *Current Conservation*
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- Dougill AJ, **Reed MS** (2005) Integrating Community and Scientific Sustainability Indicators to Facilitate Participatory Desertification Monitoring and Sustainable Rangeland Management in Botswana. In: Holland, J. & Campbell, J. (eds.) *Methods, Knowledge and Power: Combining qualitative and quantitative development research*, ITDG Publications.
- Reed MS** (2005) *Participatory Rangeland Monitoring and Management in the Kalahari, Botswana*. PhD Thesis, School of Earth & Environment, University of Leeds.
- Reed MS** (2004) *Participatory Rangeland Monitoring and Management*. Indigenous Vegetation Project Publication 003/005, United Nations Development Programme, Gaborone: Government Press
- Reed MS** (2003) Call of the Kalahari: Finding a future for a fragile landscape, *Explorers Journal* Fall 2003: 30-33
- Reed MS**, Dougill AJ (2003) *Participatory Indicator Development: Workshop Manual*. Indigenous Vegetation Project Publication 003/015, United Nations Development Programme, Gaborone: Government Press

## Invited presentations (up to 2015)

- Reed MS, Stringer LC (2015) Land degradation, desertification and climate change: findings from UNCCD Impulse Report, presented at second meeting of the UNCCD Science-Policy Interface (equivalent to the UNFCCC's IPCC) in the the Fourth special session of the UNCCD Committee on Science and Technology, Cancun, Mexico (7-8 March)
- Reed MS, Kenter J (2015) Motivational drivers & governance for biodiversity initiatives: importance of group-based valuation in the provision of cultural services. EU framework 7 funded International Conference on Motivations and arguments to act for biodiversity: Alternative ways to inspire innovative policy making, Les Ateliers des Tanneurs, Brussels (10-11 June)
- Reed MS, Kenter J (2014) Cultural ecosystem services and shared values: insights from the NEAFO. Defra-ESRC Nexus Network Workshop: Joining-up across natural resource and social sustainability issues, London (27 June)
- Reed MS (2014). How does the context and design of participatory decision-making processes affect their outcomes? Evidence from sustainable land management in global drylands. Ford Foundation funded international workshop: Participative approaches in the combat against desertification in China. Learning from international examples and insights, University of Groningen, the Netherlands (14-16 July)
- Reed MS (2014) Five ways your research can make a bigger impact. PSC-Mercator Think Tank event at Zurich-Basel Plant Science Centre, ETH Zurich.
- Reed MS (2014) The Peatland Code. International Union for the Conservation of Nature UK Peatland Programme conference, Peatland Action: learning from success, Inverness (20-22 October)
- Reed MS, Carter C (2014) Parks and climate change: all change. International workshop at Hanse Institute for Advanced Study in Delmenhorst, Germany (26-27 February)
- Reed MS (2013) Stakeholder participation: what works? Natural Connections conference, SOAS University of London (6 March)
- Reed MS (2013) Payments for Ecosystem Services: options for financing adapting natural environments to climate change. Climate Change and Nature Conservation in Europe - an ecological, policy and economic perspective, organized by the German Federal Agency for Nature Conservation (BfN) in co-operation with the European Network of Heads of Nature Conservation Agencies (ENCA), Bonn, Germany (25 - 27 June)
- Reed MS (2012) Sustainable Uplands: our pathway to impact. National Centre for Public Participation and Engagement Engage conference, Bristol (6 December)
- Reed MS, Bonn A, Evans C, Glenk K (2012) Assessing and valuing peatland ecosystem services for sustainable management, ENVECON2012, London, March 2012
- Reed MS, Bonn A, Evans C, Glenk K (2012) Payments for Ecosystem Services in Peatlands. IUCN/British Ecological Society Investing in Peatlands conference, Bangor, May 2012
- Reed MS (2012) Sustainable Uplands: our pathway to impact. ARMA annual conference (RCUK session), Southampton, June 2012
- Reed MS (2012) Sustainable uplands: our pathway to impact. 1<sup>st</sup> LWEC Assembly, Birmingham, November 2012
- Reed MS, Evely AC (2012) Visitor payback and Payments for Ecosystem Services in UK uplands. Workshop organised by Campaign for National Parks, Sheffield, April 2012
- Reed MS (2012) Upland Payments for Ecosystem Services, stakeholder workshop organised by DEFRA as part of the development of their PES Best Practice Guide, London, April 2012
- Reed MS, Bonn A, Evans C, Glenk K (2012) Multiple Benefit Payments for Ecosystem Services from UK Uplands. Valuing Nature Network workshop for water industry, Leeds, May 2012
- Reed MS (2012) Sustainable Uplands: our pathway to impact, RCUK internal seminar, Swindon, May 2012

- Reed MS, Kenter J (2012) Shared, cultural and plural values. Launch of National Ecosystem Assessment Follow-on Phase, London, July 2012
- Reed MS (2012) Peatlands without frontiers: a toolkit for collaborating across landscapes. Workshop hosted by Cairngorms National Park Authority for land owners and managers, Cairngorms National Park, September 2012
- Reed MS (2012) The UK ecosystems research landscape. National Ecosystem Assessment workshop for stakeholders, hosted by NERC's Biodiversity, Ecosystem Services & Sustainability programme, York, September 2012
- Reed MS (2012) Working successfully across disciplines: experience from the Sustainable Uplands project. Presentation at launch of ESRC funded Landbridge network, Newcastle, September 2012
- Reed MS (2011) Payments for Peatland Ecosystem Services, IUCN "Investing in Peatlands" conference, Stirling University, 22-24 June
- Reed MS (2011) Delivering sustainable wetland management through effective participation, Wetland Futures Conference 2011, Lancaster, 29 June
- Reed MS (2011) Payments for Ecosystem Services in Upland National Parks. UK ANPA annual members' workshop 2011, "The value of National Parks", Royal York Hotel, York, 24-25 May
- Reed MS (2011) Participatory Development: the case of land degradation in southern Africa. Development Studies Association Annual Conference, Aberdeen, October 2011
- Reed MS, de Vente J, Newig J, Stringer LC (2011) Do bottom-up approaches to conservation reduce conflict and lead to stronger environmental outcomes? ACES2011 Conservation Conflicts Conference, Aberdeen, August 2011
- Reed MS, de Vente J, Newig J, Stringer LC (2011) Enabling citizen choices about land use and the natural environment, Rural Law Conference 2011, Aberdeen, September 2011
- Reed MS (2011) Enabling citizen choices about land use and the natural environment: experience from the Sustainable Uplands and Involved projects, Scottish Parliament, Edinburgh, March 2011
- Reed MS (2011) Potential for Payments for Upland Ecosystem Services, DEFRA workshop on "Barriers and Opportunities to the Use of Payments for Ecosystem Services", Zoological Society of London, 8th April
- Reed MS (2011) Social media for research impact, ESRC Interface Seminar, University of Aberdeen, 25 June
- Reed MS (2011) Knowledge Exchange for Sustainability: 7 Principles, presentation to Living With Environmental Change partnership, Royal Institution, November 2011
- Reed MS (2011) Designing more effective participatory decision-making processes, DEFRA, London, August 2011
- Reed MS (2011) Involving stakeholders more effectively upland National Parks, Northern Rural Network Workshop, Newcastle, September 2011
- Reed MS (2010) Sustainable Uplands: learning to manage future change. RICS ROOTS conference, April
- Reed MS (2010) Preparing for the future: anticipating and adapting to future change. Michael Young Prize presentation, ESRC Festival of Methods, Oxford, June
- Reed MS (2010) Policy options for sustainable peatland management, IUCN Commission of Inquiry on Peatlands Conference, Durham, October
- Reed MS (2010) Interdisciplinary practice. Joint conference between RELU programme and EPSRC's SUE programme, London, October
- Reed MS (2010) Building sustainable places through interdisciplinary practice. Building Interdisciplinary Agendas Series, University of Newcastle
- Reed MS (2009) Sustainable Uplands: Learning to manage future change. Northern Rural Network and RELU, Rural Land Use in the North: Future Challenges, March 12th, Park Inn Hotel, York

- Hubacek K, Reed MS (2009) Participatory approaches for developing upland communities, Commission for Rural Communities Uplands Enquiry Seminar, Penrith, May
- Termansen, M., Kirkby, M.J., Bonn, A., Burt, T.P., Chapman, D., Chapman, P.J., Cornell, S., Dougill, A.J., Fraser, E., Jin, N., Holden, J., Hubacek, K., Irvine, B., Kunin, W., Quinn, C., Prell, C., Reed, M., Worrall, F., Beharry, N. (2009) Sustainable Uplands: Learning to manage future change. Moors for the Future Annual Conference, Castleton
- Reed MS, Kirkby MJ, Quinn CH (2009) Sustainable Uplands: Learning to manage future change. Rural Economy and Land Use (RELU) Programme Annual Conference, London, June
- Loder J, Reed MS (2009) Interacting with rural change: rural planning research at University of Aberdeen, RICS mid-term conference, Battleby, April
- Reed MS, Mitchley J, Hubacek K, Quinn CH (2008) Using scenarios to explore upland futures. Shaping a Vision for the Uplands, Association of Applied Biology Conference, Sheffield 2-4 June
- Holden, J., Reed, M., Hubacek, K., Fraser, E., Prell, C., Bonn, A., Burt, T.P., Chapman, D., Chapman, P.J., Cornell, S., Dougill, A.J., Jin, N., Irvine, B., Kirkby, M.J., Kunin, W., Quinn, C., Termansen, M., Worrall, F., Beharry, N. (2008) Sustainable uplands for sustainable lowlands. Connecting urban and rural greenspace, Joint RGS-PLACE conference, Leeds, April 2008.
- Quinn CH, Hubacek K, Reed MS (2007) Stakeholder Participation in the Strategic Management of Upland Landscapes. Annual RELU conference, Edinburgh, 14-16 May
- Reed MS, Prell C & Hubacek K (2006) Communication and Representation in Water Resource Management: Using Social Network Analysis and Stakeholder Analysis to Support Social Learning, ESRC/NERC Transdisciplinary Seminar, Water Environment and Society Series, University of Sheffield, 11th July
- Reed MS & Dougill AJ (2006) Integrating and sharing local and scientific knowledge bases to assess land degradation. Future of Drylands Conference, International Scientific Conference on Desertification and Drylands Research Commemorating 50 Years of Drylands Research, Tunis, Tunisia 19-21 June
- Hubacek K, Dougill AJ, Fraser EDG, Holden J, Prell C, Reed MS, Stagl ST, Stringer LC (2005) Doing Adaptive Learning Rural Research: Lessons from the Peak District National Park, Bioscience 2005 - "Biodiversity Conservation and Sustainable Development in the Mountain Areas of Europe: the challenge of interdisciplinary research", Greece, September
- Dougill AJ, Reed MS, Hubacek K, Burt T, Chapman PJ, Fraser EDG, Holden J, Kirkby MK, Prell C, Sendzimir J, Shotbolt L, Stagl ST, Stringer LC, Turner A & Worrall F (2005) Managing Uncertainty in Dynamic Socio-Environmental Systems: An Application to UK Uplands, ESRC/NERC/BBSRC Rural Economy and Land Use Programme: "Scoping the Research Agenda", Kings Rooms, York, May
- Hubacek K, Reed MS, Dougill AJ, Burt T, Chapman PJ, Fraser EDG, Holden J, Kirkby MK, Prell C, Sendzimir J, Shotbolt L, Stagl ST, Stringer LC, Turner A & Worrall F (2005) Sustainable Upland Management for Multiple Benefits, ESRC/NERC/BBSRC Rural Economy and Land Use Programme: The Challenge for Research, 19-21 January
- Reed MS & Hubacek K (2005) Sustainable Upland Management for Multiple Benefits, UKPopNet Large-scale Upland Manipulation Feasibility Workshop, Stockholm Environment Centre, University of York, March
- Reed MS, Stringer LC & Hubacek K (2005) Adapting to future change in the Peak District, Moors for the Future National Conference, Castleton, September
- Reed MS, Prell C & Hubacek K (2004) Managing Uncertainty in Dynamic Socio-Environmental Systems: an application to upland management, Moors for the Future National Conference, Castleton, October
- Reed MS & Dougill AJ (2003) Using Participatory Methods to Develop Environmental Indicators in the Kalahari, School of the Environment, University of York, October

- Reed MS & Dougill AJ (2003/4) Using Participatory Methods to Develop Environmental Indicators in the Kalahari, School of Geography, Manchester Metropolitan University, November
- Reed MS & Dougill AJ (2003) Farmer-led land degradation assessment, Department of Environmental Science, University of Botswana, March
- Reed MS & Worrall F (2002) Carbon credits for gully blocking under the Kyoto Protocol, Centre for Ecology and Hydrology, Merlewood, February



## PhD students

Current PhD students:

- Bella Reichard: Variations in Language Features between REF2014 Impact Case Studies and Underpinning Research Articles (due to complete in 2022)
- Rosmarie Katrin Neumann: Adoption and Implementation of Scientific Knowledge for Political Decision Making – Ecosystem Services of Peatlands as a Case Study (due to complete in 2020)
- Helen Adamson: Effects of grip blocking on vegetation of blanket bog (due to complete in 2022)

Previous PhD students:

- Steven Vella: Stakeholder Involvement and Understanding the roles of different types of “knowledges” in Environmental and Social Impact Assessments within the Maltese Urban Development Planning System (due to complete in 2016)
- Kathleen Allen: “Greenhouse gas dynamics and payments for ecosystem services in peatlands” (due to complete in 2016 – co-supervision arrangement with University of Edinburgh)
- Claudia Carter: Applying the Ecosystem Approach at the landscape scale: Exploring new perspectives on land use planning and management advice for city regions (due to complete in 2017)
- Doan Nainggolan: Modeling land use and water consumption in SE Spain (University of Leeds, 2010)
- Gina Maffey: The use of digital technologies in rural landscapes (University of Aberdeen, 2014)
- Jasper Kenter: Implementing the ecosystem approach through deliberative valuation and participatory systems modeling (University of Aberdeen, 2014)
- Chris Raymond: The influence of human values, place attachment, beliefs and norms on the planting of native vegetation in rural South Australia (University of Aberdeen co-supervisor with student based at University of South Australia, 2012)

I have been an external examiner for PhDs at the following institutions:

- University of Nottingham (2021)
- Aarhus University (2018)
- Nelson Mandela University (2018)
- University of Leicester (2017)
- Universität für Bodenkultur, Wien (2017)
- Sheffield Hallam University (2015)
- University of York (2015)
- Leumphana University, Germany (2015)
- Bangor University (2015)
- University of Manchester (2015)
- Australian National University (2015)
- Groningen University, Netherlands (2014)
- Wageningen University, Netherlands (2014)
- Robert Gordons University, UK (2014)
- University of York, UK (2013)

# Teaching

Programme co-ordination:

- BSc Environmental Sustainability programme manager (2005-2008), University of Leeds
- BSc Environmental Conservation programme manager (2005-2009), University of Leeds

Distance learning:

- Designing blended learning materials and a Massive Online Open Course (MOOC) for Birmingham City University
- Contributed to MOOCs for University of Aberdeen and the United Nations Economics of Land Degradation initiative
- Designed secondary schools resources linking the latest peatland research to the School curriculum, funded by two National Parks and a water company (available via UK National Parks website)
- I have used online video in blended learning as part of courses at the Universities of Leeds, Aberdeen and Birmingham City
- Editor of School E-journal, Earth & Environment (2005-2009), University of Leeds: I initiated and edited an e-journal to publish first class undergraduate and postgraduate research from students in the School
- University of Leeds Teaching Quality Enhancement Fund (2006): awarded £5,025 for the project, "Creating a climate change documentary film as an integrated classroom and online learning resource"
- University of Leeds-Cape Coast Ghana University Partnership (2006-2008): funded by DFID in a capacity building project providing training to lecturers and developing learning and teaching resources

Courses taught (*Masters courses* in italics and **co-ordinator** for courses in bold):

- Research methods teaching for Undergraduate students (Aberdeen, BCU and Newcastle)
- **Research methods for Masters and PhD students** (Aberdeen, BCU and Newcastle)
- Dissertation supervision for Undergraduate and Masters students (Leeds, Aberdeen, BCU and Newcastle)
- Tutorials (Leeds and BCU)
- Fieldwork courses for environmental science, environmental management, planning and geography students (Leeds and Aberdeen)
- *Inter-professional project* (BCU)
- *Law and Environmental Governance* (BCU)
- *Policies and Plans* (BCU)
- *Dynamics of Coupled Human-Natural Systems* (Newcastle)
- Sustainable Land Use and Management (Newcastle)
- Sustainability in the Built and Natural Environment (BCU)
- Society, Economics and Environment (BCU)
- **Complexity, Conflict and Resolution** (BCU)
- **Environmental Governance** (Aberdeen)
- Land & Marine Conservation (Aberdeen)
- Economic Development & Regeneration (Aberdeen)
- *Conservation in Practice* (Aberdeen)
- Geographical Issues (Aberdeen)
- **People, Plants, Planning & Conservation** (Aberdeen)

- *Ecology & Society* (Aberdeen)
- *Planning Theory & Practice* (Aberdeen)
- Learning and Communication Skills (Leeds)
- Environment & Society (Leeds)
- Environment and Ecology (Leeds)
- Environmental Science for Environmental Management (Leeds)
- Sustainable Development (Leeds)
- Poverty, Resources and Development (Leeds)
- Development Planning in Theory and Practice (Leeds)
- **Climate Change: Science, Policy and Management** (Leeds)
- *Climate Change: Impacts, Mitigation and Adaptation* (Leeds)
- **People & Plants** (Leeds)
- Environmental Governance (Leeds)

## Referees

Prof Guy Garrod, Director, Applied Social Sciences, School of Natural and Environmental Sciences, Newcastle University

Prof Hanifa Shah, Associate Dean for Research, Faculty of Computing, Engineering and the Built Environment, Birmingham City University. Email: Hanifa.Shah@bcu.ac.uk

Prof Andrew Dougill, Dean of Faculty of Environment, Professor of Environmental Sustainability, University of Leeds. Email: A.J.Dougill@leeds.ac.uk