

A. PERSONAL DETAILS

1. EDUCATION AND QUALIFICATIONS

2009 –2012	The University of Manchester PhD Physical Geography <i>'The response of Mediterranean river systems to Pleistocene glaciation'</i>
2008 - 2009	Royal Holloway and UCL, University of London MSc Quaternary Science - Distinction
2005 - 2008	The University of Manchester BSc (Hons.) Geography - First Class

2. PRESENT POSITION

2015 - Present	Senior Lecturer in Physical Geography Manchester Metropolitan University
2014 - 2015	Lecturer in Physical Geography Manchester Metropolitan University
2012 - 2014	Lecturer in Physical Geography Queen Mary, University of London
2013 - 2014	Visiting Research Fellow The University of Manchester

3. MEMBERSHIP OF ACADEMIC AND PROFESSIONAL BODIES

2023-present	Manchester Geographical Society, Treasurer	Invited Member
2020-2021	Quaternary Research Association, EDI panel	Founding Member
2019 - 2021	Quaternary Research Association, Awards Officer	Invited Member
2015 -2018	Outreach representative European Geosciences Union	Elected Member
2014 - 2020	American Geophysical Union - Eos advisory panel	Invited Advisor
2013 - 2020	American Geophysical Union - Expert outreach network	Invited Member
2013 - Present	OCR GCSE and A level Geography Consultative Forum	Invited Advisor

4. OTHER PROFESSIONAL DUTIES

2025 - Present	External examiner for Physical Geography , University of Portsmouth
2019 – Present	Schools and Outreach liaison officer , Department of Natural Sciences, MMU
2019	Programme verifier for Geography , University of Teesside
2017 - 2020	External examiner for Physical Geography , University of Hertfordshire

B. RESEARCH AND ACADEMIC PROFILE

1. RECENT AND ON-GOING RESEARCHER SUPERVISION

MRes

Khushi Himatlal

PhD

Matt Carney
Anthony Vignola

Post-Doc

Stuart Rae

2. PUBLICATIONS

Journals – Published

Martin, M.D., Barr, I., Edwards, B., Spagnolo, M., Symeonakis, E., Mallalieu, J., **Adamson, K.**, Mullan, D. and de Vries, M.V.W. (2025) 'Glacier speed-up as a possible precursor to volcanic eruptions at Mount Veniaminof, Alaska' in *Journal of Glaciology*, pp.1-18.

Peeters, J., Graham, A., Toonen, W.H., Pennington, B.T., Durcan, J.A., Winkels, T.G., Barker, D.S., Masson-Berghoff, A., **Adamson, K.**, Emery, V.L. and Strutt, K.D. (2024) 'Shift away from Nile incision at Luxor \sim 4,000 years ago impacted ancient Egyptian landscapes' in *Nature Geoscience*, pp.1-9.

Delaney, C.A., **Adamson, K.**, Linch, L.D., Davis, S. and McCarron, S. (2023) 'Reconstructing terrestrial ice sheet retreat dynamics from hummocky topography using multiscale evidence: An example from central Ireland' in *Quaternary Science Reviews*, 308, 108041.

Barr, I.D., Spagnolo, M., Rea, B.R., Bingham, R.G., Oien, R.P., **Adamson, K.**, Ely, J.C., Mullan, D.J., Pellitero, R. and Tomkins, M.D. (2022) '60 million years of glaciation in the Transantarctic Mountains'. *Nature Communications*, 13(1) 1-7.

Garcia-Oteyza, J., Oliva, M., Palacios, D., Fernández-Fernández, J.M., Schimmelpfennig, I., Andrés, N., Antoniades, D., Christiansen, H.H., Humlum, O., Leanni, L., Jomelli, V., Ruiz-Fernandez, J., Rinterknecht, V., Lane, T. P., **Adamson, K.**, ASTER Team (2022) 'Late Glacial deglaciation of the Zackenberg area, NE Greenland' in *Geomorphology*, 401 108-125.

Adamson, K., Lane, T., Carney, M., Delaney, C. and Howden, A. (2022) 'The imprint of catchment processes on Greenlandic ice cap proglacial lake records: analytical approaches and palaeoenvironmental significance' in *Journal of Quaternary Science* 1-19.

van der Bilt, W.G., Barr, I.D., Berben, S.M., Hennekam, R., Lane, T., **Adamson, K.** and Bakke, J. (2021) 'Late Holocene canyon-carving floods in northern Iceland were smaller than previously reported' in *Communications earth & environment*, 2(1) 1-12.

Adamson, K., Lane, T., De Meyer, K., Carney, M., Oppenheim, L., Panitz, L., Price, H., Smith, E., Watson, G. (2021) 'Enhancing physical geography schools outreach: Insights from co-production and storytelling narratives' in *Progress in Physical Geography*.

Lane, T. P., Paasche, Ø., Kvisvik, B., **Adamson, K. R.**, Rodés, Á., Patton, H., Gomez, N., Gheorghiu, D., Bakke, J. and Hubbard, A. (2020) 'Elevation changes of the Fennoscandian Ice Sheet interior during the last deglaciation' in *Geophysical Research Letters*

Adamson, K. R., Lane, T. P., Carney, M., Bishop, T., and Delaney, C. (2018) 'High-resolution proglacial lake records of pre-Little Ice Age glacier advance, Northeast Greenland' in *Boreas*

Cordier, S., **Adamson, K.**, Calvet, M., Delmas, M., Harmand, D., and Stange, K. M. (2017) 'Of ice and water: Quaternary fluvial response to glacial forcing' in *Quaternary Science Reviews* 166 57-73

Harmand, D., **Adamson, K.**, Rixhon, G., Jaillet, S., Lossen, B., Devos, A., Hez, G., Calvet, and Audra, P. (2017) 'Relationships between fluvial evolution and karstification related to climatic, tectonic and eustatic forcing in temperate regions: recent evidence' in *Quaternary Science Reviews* 166 38-56

Jomelli, V., Lane, T. P. Rinterknecht, V., Swingedouw, D., Favier, V., Schimmelpfennig, I., **Adamson, K.**, Leanni, L., Brunstein, D., Mokadem, F., Biette, M., and the Aster Team (2016) 'Paradoxical cold conditions during the medieval climate anomaly in the Western Arctic' in *Nature Communications* 6 1-9

Adamson, K. R., Candy, I. and Whitfield, L. (2015) 'Coupled micromorphological and stable isotope analysis of Quaternary calcrete development' in *Quaternary Research* 84(2) 272-286

Adamson, K. R., Woodward, J. C. and Hughes, P. D. (2014) 'Fine sediment transformation in a Middle Pleistocene glacial-fluvial system' in *Geografiska Annaler* 98 (3) 339-356

Adamson, K. R., Woodward, J. C. and Hughes, P. D. (2014) 'Glaciers and rivers: Pleistocene uncoupling in a Mediterranean mountain karst' in *Quaternary Science Reviews* 94 28-43

Candy, I., **Adamson, K. R.**, Gallant, C. E., Maher, L. and Pope, R. (2012) 'Oxygen and carbon isotopic composition of Quaternary meteoric carbonates from western and southern Europe: their role in palaeoenvironmental reconstruction' in *Palaeogeography, Palaeoclimatology, Palaeoecology* 1-11 326-328

Hughes, P. D., Woodward, J. C., van Calsteren, P. C., Thomas, L. E. and **Adamson, K. R.** (2010) 'Pleistocene ice caps on the coastal mountains of the Adriatic Sea' in *Quaternary Science Reviews* 29 (27-28) 3690-3708

Book chapters

Barr, I.D., **Adamson, K.**, Lane, T., Nebel, K. and van der Bilt, W.G., 2024. Using drones to map and visualise glacial landscapes. In *3D Imaging of the Environment* (pp. 45-55). CRC Press.

Cortes Arevalo, V. J., **Adamson, K.**, Fantini, E., Postma, R., Verbrugge, L. N. H. (2023) 'Storytelling' in Philipp, T. and Schmoll, T. (Eds.) *Handbook of Transdisciplinary Learning*

Adamson, K. R., Woodward, J. C. and Hughes, P. D. (2017) 'Middle Pleistocene glaciation, alluvial fan development, and sea level change in the Bay of Kotor, Montenegro' in Hughes, P. D. and Woodward, J. C. (Ed.) *Mediterranean Glacial Environments* Geological Society Special Publication

Adamson, K. R. and Lane, T. P. (2016) 'Sediment and Meltwater Dynamics in Glacially-Influenced Areas of Arctic Permafrost' in INTERACT Arctic Research Special Publication

Adamson, K. R., Woodward, J. C. and Hughes, P. D. (2015) 'The Pleistocene sedimentary records of karst poljes in the Balkans' in Feinberg, J. (Ed.) *Caves and Karst through time* GSA Special Publication

Edited volumes

Leal, W., **Adamson, K. R.**, Dunk, R. and Azeiteiro, U. M. (2016) *Implementing Climate Change Adaptation in Cities and Communities* Springer Special Edition

Accepted, submitted, and in-prep

Peeters et al. (2025) 'Climatic and environmental changes impacted the ancient Nilotic landscape: a brief glimpse into the future' accepted in *EES Egyptian Archaeology: Climate Change and Heritage Adaptation*

Adamson et al. (2025) 'Holocene glacier behaviour and catchment change in Northeast Greenland' for submission to *Journal of Quaternary Science* in August 2025

Adamson et al. (2025) 'Holocene history of the River Nile in Luxor: new insights from soil rhizoliths' for submission to *Catena* in September 2025

Delaney et al. (2025) 'Reconstructing and dating deglaciation in a palimpsest, inundated landscape' for submission to *Quaternary Science Reviews* in September 2025

Adamson et al. 'Go ahead punk, save the planet: the role of DIY punk music in climate change outreach' *in-prep for submission to Progress in Physical Geography*

Finkenbinder et al. 'Deglaciation and landscape change at the southeastern margin of the Laurentide Ice Sheet' *in prep for submission to Quaternary Science Reviews*

Outreach related publications

Adamson, K. R. (2017) 'Greenland: How rapid climate change on world's largest island will affect us all' in *The Independent* 6th September. Available online at:

<http://www.independent.co.uk/environment/greenland-how-rapid-climate-change-on-worlds-largest-island-will-affect-us-all-a7926006.html>

Adamson, K. R. (2017) 'Greenland: How rapid climate change on world's largest island will affect us all' in *The Conversation* 22nd August. Available online at: <https://theconversation.com/greenland-how-rapid-climate-change-on-worlds-largest-island-will-affect-us-all-82675>

Adamson, K. R. (2015) 'Exploring Arctic Climate Change' in *Geography Review*

Adamson, K. R. (2014) 'What can you expect from your return to student life?' in *The Independent* Postgraduate supplement 14th January

Adamson, K. R., Lane, T. P. and Jones, S. R. (2013) 'Climatica: a new initiative for climate science outreach' in *European Geosciences Union Magazine*

Adamson, K. R. (2013) 'Shouldn't climate scientists try harder at communicating their findings?' in *The Guardian* 22nd July. Available online at:

<http://www.theguardian.com/environment/blog/2013/jul/22/climate-scientists-communication>

3. RECENT RESEARCH AWARDS (2020 – PRESENT)

2024

NERC UK-Greenland Bursary (£19,500) (PI)

To examine changing climate seasonality in West Greenland by combining scientific analysis with local indigenous knowledge.

2024

NERC Iceland Bursary (£15,000) (Co-I)

To examine lacustrine sedimentary signatures of outburst flooding in SE Iceland.

2023

Green Blue Urban Soil Trials (£30,000) (Co-I)

To investigate pollutant accumulation in urban road-side soil pits.

2023

NERC UK-Greenland Bursary (£19,300) (PI)

For multidisciplinary project 'Landscapes of Change', examining recent climate change and community experiences in South Greenland.

2023

EU - INTERACT Transnational Access Award (£15,000 grant in kind access) (PI)

PROGlacial Lake records of Arctic Climate change And Landscape instability (PROGLACIAL) – To examine records of recent glacier behaviour in West Greenland

2022

NERC Cosmogenic Isotope Facility (£20,000 grant in kind access)

For samples from bedrock and boulder surfaces to analyse the retreat patterns of the Laurentide Ice Sheet.

2020 **NERC Cosmogenic Isotope Facility (£34,516 grant in kind access) (Co-I)**
For samples from bedrock and boulder surfaces to analyse the retreat patterns of glaciers in North Iceland.

2020 **NERC Radiocarbon Facility (£5,000 grant in kind access) (Co-I)**
For samples from proglacial lake sediments to analyse the retreat patterns of the ice caps in northern Iceland.

2020 **NERC Cosmogenic Isotope Facility (£25,000 grant in kind access) (Co-I)**
For samples from bedrock and boulder surfaces to analyse the retreat patterns of the British-Irish Ice Sheet.

C. RECENT OUTREACH PROFILE (2019-PRESENT)

1. RECENT SCHOOLS-RELATED OUTREACH EVENTS

May 2025 **Xavarian Sixth Form, Manchester**
Glaciers and climate change invited guest lecture

October 2024 **Geographical Association** (invited guest speaker)
Glaciers and climate change

April 2022-2024 **MANCEP Teacher CPD** (invited guest speaker)
Regional sixth form college fieldwork CPD

May 2023 **Aquinas Sixth Form college**
On-campus workshops for sixth form Geography students

April 2022 **Time for Geography, national curriculum educational video**
Invited contributor, educational video 'Evidence of UK glaciation and deglaciation'
Awarded the 'Highly Commended' prize by the Geographical Society

November 2021 **Unifrog national careers webinars**
Careers advisor for Geography and Environmental Science

November 2021 **Geographical Association seminar series** (invited guest speaker)
'Arctic Climate Change: Physical and Human Geography perspectives'

2019-2020 **BBC Newsround**
Invited guest expert on climate change

2019 - Present **Loreto College – Geography degree/careers liaison**
Long-standing ties with a large local sixth form

2. RECENT EVENTS AND INVITED GUEST SEMINARS

July 2025 **Contours of Inequality BSG-sponsored Fiwi Road** (invited guest speaker)
'Uniting indigenous and scientific knowledge in Greenland'

June 2025	British Museum Archaeology seminar series (invited guest speaker) Holocene evolution of the Egyptian Nile Valley at Luxor
June-Sept 2024	Landscapes of Change Science-Poetry Exhibition (Exhibition co-designer) Exploring climate change in Greenland, Manchester poetry library
March 2024	Arctic Science Summit Week, Edinburgh (invited guest speaker). Environmental change and indigenous knowledge in South Greenland.
May 2023	Pint of Science Festival, Manchester (invited guest speaker) 'Mud! An Ice Age time machine'
October 2022	International Quaternary Webinar Series, University of Massachusetts, Amherst Invited guest speaker on Quaternary proglacial lakes in Greenland
May 2022	Friends of the Earth public lecture series, Manchester (invited guest speaker) 'Our warming world'
March 2021	OCR A-level Curriculum panel meeting Invited guest talk, on HE response to online teaching and learning in Geography
June 2020	INTERACT International seminar series Invited speaker ' <i>Glacial meltwater sediment transformation in Arctic river systems</i> '
January 2020	Royal Danish Academy of Sciences, Copenhagen Invited guest lecture, on glacial meltwater rivers and carbon transport.
July 2019	University of Bergen Masters Fieldcourse, Albania Invited guest field instructor on the MSc Earth Science fieldtrip to Albania, on glaciokarst and palaeoenvironmental change research.
March 2019	RGS-IBG – OCR Physical Geography A-level event Invited guest speaker for A-level teachers on Physical Geography research topics

3. RECENT OUTREACH-RELATED CONFERENCE PROCEEDINGS

January 2024	QRA, Manchester - Conference organiser and session convenor <i>EDI panel workshop</i>
July 2023	INQUA Congress, Rome, Italy - EDI Session convenor ' <i>Equity, Diversity, and Inclusion Initiatives in the Quaternary Sciences</i> ' (with co-convenors Schillereff, D., Hart, J., and Holmes, N.)
May 2022	EGU, Vienna and online – Science outreach short course convenor ' <i>Turn your scientific abstract into a vlog: evaluating best-practice in vlog production</i> ' (with co-convenors V. J. Cortes Arevalo, E. Fantini, and R. Postma)
April 2018 and 2019	EGU, Vienna, Austria - Science outreach short course convenor <i>Once Upon a Time in Vienna: science storytelling workshop</i> (with co-convenors T. Lane, M. Carney, L. Oppenheim, J. Qiu).

D. REFERENCES

Professor Steve Rice

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Dr Angus Graham

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Uppsala University
angus.graham@arkeologi.uu.se