

## **A. PERSONAL DETAILS**

### **1. EDUCATION AND QUALIFICATIONS**

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

### **2. PRESENT POSITION**

2015 - Present	<b>Senior Lecturer in Physical Geography</b> Manchester Metropolitan University
2014 - 2015	<b>Lecturer in Physical Geography</b> Manchester Metropolitan University
2012 - 2014	<b>Lecturer in Physical Geography</b> Queen Mary, University of London
2013 - 2014	<b>Visiting Research Fellow</b> 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	<b>External examiner for Physical Geography</b> , University of Portsmouth
2019 – Present	<b>Schools and Outreach liaison officer</b> , Department of Natural Sciences, MMU
2019	<b>Programme verifier for Geography</b> , University of Teesside
2017 - 2020	<b>External examiner for Physical Geography</b> , 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~ 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., Antoniadou, 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., Losson, 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* 6<sup>th</sup> 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* 22<sup>nd</sup> 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* 22<sup>nd</sup> July. Available online at: <http://www.theguardian.com/environment/blog/2013/jul/22/climate-scientists-communication>

### **3. RECENT RESEARCH AWARDS (2020 – PRESENT)**

2024	<b>NERC UK-Greenland Bursary (£19,500) (PI)</b> To examine changing climate seasonality in West Greenland by combining scientific analysis with local indigenous knowledge.
2024	<b>NERC Iceland Bursary (£15,000) (Co-I)</b> To examine lacustrine sedimentary signatures of outburst flooding in SE Iceland.
2023	<b>Green Blue Urban Soil Trials (£30,000) (Co-I)</b> To investigate pollutant accumulation in urban road-side soil pits.
2023	<b>NERC UK-Greenland Bursary (£19,300) (PI)</b> For multidisciplinary project 'Landscapes of Change', examining recent climate change and community experiences in South Greenland.
2023	<b>EU - INTERACT Transnational Access Award (£15,000 grant in kind access) (PI)</b> <i>PROglacial Lake records of Arctic Climate change And Landscape instability (PROGLACIAL)</i> – To examine records of recent glacier behaviour in West Greenland
2022	<b>NERC Cosmogenic Isotope Facility (£20,000 grant in kind access)</b>

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

### 3. RECENT OUTREACH-RELATED CONFERENCE PROCEEDINGS

January 2024	<b>QRA, Manchester</b> - Conference organiser and session convenor <i>EDI panel workshop</i>
July 2023	<b>INQUA Congress, Rome, Italy</b> - 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	<b>EGU, Vienna and online</b> – 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	<b>EGU, Vienna, Austria</b> - 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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Manchester Metropolitan University  
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### **Dr Angus Graham**

Associate Professor in Archaeology and Ancient History  
Uppsala University  
angus.graham@arkeologi.uu.se