

## Matt D. Tomkins [he/him]

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CONTACT INFORMATION	Arthur Lewis Building 1.030 Department of Geography School of Environment, Education and Development The University of Manchester	Office phone: <i>Upon request</i> E-mail: <a href="mailto:matthew.tomkins@manchester.ac.uk">matthew.tomkins@manchester.ac.uk</a> Website: <a href="https://www.mattdtomkins.com/">https://www.mattdtomkins.com/</a>
ACADEMIC POSITIONS	<b>Senior Tutor / Lecturer in GIS</b> Department of Geography School of Environment, Education and Development The University of Manchester	2020 - present
	<b>Research Associate in GIS</b> Department of Geography & Environment School of Geosciences University of Aberdeen Mentor: Prof. Matteo Spagnolo	June 2020 - August 2020
	<b>Lecturer in Physical Geography</b> Department of Geography School of Environment, Education and Development The University of Manchester	2019 - 2020
EDUCATION	<b>Ph.D in Physical Geography</b> The University of Manchester Thesis: <i>Glacial erosion and mountain denudation over the last glacial cycle: Case studies from the NE Atlantic margin</i> Supervisors: Dr. Jason M. Dortch, Prof. Philip D. Hughes, Dr. Jonny J. Huck	2019
	<b>MSc (by research) in Environmental Science</b> (Distinction) Lancaster University Dissertation: <i>Tracking retreat processes at the Falljökull glacier, Iceland</i> Supervisors: Prof. Mike R. James, Dr. Peter Wynn	2016
	<b>BSc (Hons) in Geography</b> (1st class) The University of Manchester Dissertation: <i>Schmidt Hammer exposure dating (SHED): Establishment and implications for the retreat of the last British Ice Sheet</i> Supervisor: Prof. Jamie Woodward	2015
PEER-REVIEWED ARTICLES	[10] Barr, I.D., Spagnolo, M., Rea, B.R., Bingham, R.G., Oien, R.P., Adamson, K., Ely, J.C., Mullan, D.J., Pellitero, R., <b>Tomkins, M.D.</b> (2022) At least 60 million years of glaciation in the Transantarctic Mountains. <i>Nature Communications</i> , 13, <a href="https://doi.org/10.1038/s41467-022-33310-z">https://doi.org/10.1038/s41467-022-33310-z</a>	
	[9] Dortch, J.M., <b>Tomkins, M.D.</b> , Saha, S., Murari, M.K., Schoenbohm, L.M., Curl, D. (2022). A tool for the ages: The Probabilistic Cosmogenic Age Analysis Tool (P-CAAT). <i>Quaternary Geochronology</i> , 71, <a href="https://doi.org/10.1016/j.quageo.2022.101323">https://doi.org/10.1016/j.quageo.2022.101323</a> .	
	[8] <b>Tomkins, M.D.</b> , Dortch, J.M., Hughes, P.D., Huck, J.J., Pallàs, R., Rodés, Á., Allard, J.L., Stimson, A.G., Bourlès, D., Rinterknecht, V., Jomelli, V., Rodríguez-Rodríguez, L., Copons, R., Barr, I.D., Darvill, C.M., Bishop, T. (2021) Moraine crest or slope: An analysis of the effects of boulder position on cosmogenic exposure age. <i>Earth and Planetary Science Letters</i> , 570, <a href="https://doi.org/10.1016/j.epsl.2021.117092">https://doi.org/10.1016/j.epsl.2021.117092</a>	
	[7] Hughes, P.D., <b>Tomkins, M.D.</b> , Stimson, A.G. (2019) Glaciation of the English Lake District during the Late-glacial: a new analysis using <sup>10</sup> Be and Schmidt hammer exposure dating. <i>Northwest Geography</i> , 19, 8-20.	

[6] Barr, I.D., Ely, J.C., Spagnolo, M., Evans, I.S., **Tomkins, M.D.** (2019). The dynamics of mountain erosion: cirque growth slows as landscapes age, *Earth Surface Processes and Landforms*, 44, 2628– 2637, <https://doi.org/10.1002/esp.4688>.

[5] Matthews, J.A., Winkler, S., Wilson, P., **Tomkins, M.D.**, Dortch, J.M., Mourne, R.W., Hill, J.L., Owen, G., Vater, A.E. (2018). Small rock-slope failures conditioned by Holocene permafrost degradation: a new approach and conceptual model based on Schmidt-hammer exposure-age dating, Jotunheimen, southern Norway. *Boreas*, 47(4), 144-1169. <https://doi.org/10.1111/bor.12336>

[4] **Tomkins, M. D.**, Dortch, J.M., Hughes, P.D., Huck, J., Stimson, A., Delmas, M., Calvet, M., Pallàs, R. (2018). Rapid age assessment of glacial landforms in the Pyrenees using Schmidt hammer exposure dating (SHED), *Quaternary Research*, 90(1), 26-37. <https://doi.org/10.1017/qua.2018.12>.

[3] **Tomkins, M. D.**, Dortch, J.M., Hughes, P.D., Huck, J., Tonkin, T.N., Barr, I.D. (2018). Timing of glacial retreat in the Wicklow Mountains, Ireland, conditioned by glacier size and topography, *Journal of Quaternary Science*, 33(6), 611-623, <https://doi.org/10.1002/jqs.3040>.

[2] **Tomkins, M. D.**, Dortch, J.M., Hughes, P.D., Huck, J., Kirkbride, M.P., Barr, I.D. (2018). Schmidt Hammer exposure dating (SHED): Calibration procedures, new exposure age data and an online calculator, *Quaternary Geochronology*, 44, 55-62, <https://doi.org/10.1016/j.quageo.2017.12.003>.

[1] **Tomkins, M. D.**, Dortch, J.M., Hughes, P.D. (2016). Schmidt Hammer exposure dating (SHED): Establishment and implications for the retreat of the last British Ice Sheet, *Quaternary Geochronology*, 33, 43-60, <https://doi.org/10.1016/j.quageo.2016.02.002>

#### BOOK CHAPTERS

[7] Hughes, P.D., **Tomkins, M.D.**, Clark, C.D., Gibbard, P.L., Glasser, N.F. (2023) Holocene glacial and periglacial landscapes of Britain and Ireland. In Palacios, D., Hughes, P.D., Jomelli, V., Tanarro, L.M. (editors) *European Glacial Landscapes: The Holocene*. Elsevier, *Forthcoming*

[6] Hughes, P.D., Clark, C.D., Gibbard, P.L., Glasser, N.F., **Tomkins, M.D.** (2023) Britain and Ireland: glacial landforms during the Younger Dryas. In Palacios, D., Hughes, P.D., García Ruiz, J.M., Andrés, N. (editors) *European Glacial Landscapes: Last Deglaciation*. Elsevier, 481-493, <https://doi.org/10.1016/B978-0-323-91899-2.00028-0>

[5] Hughes, P.D., Clark, C.D., Gibbard, P.L., Glasser, N.F., **Tomkins, M.D.** (2023) Britain and Ireland: glacial landforms during the Bølling-Allerød Interstadial. In Palacios, D., Hughes, P.D., García Ruiz, J.M., Andrés, N. (editors) *European Glacial Landscapes: Last Deglaciation*. Elsevier, 319-327, <https://doi.org/10.1016/B978-0-323-91899-2.00031-0>

[4] Hughes, P.D., Clark, C.D., Gibbard, P.L., Glasser, N.F., **Tomkins, M.D.** (2023) Britain and Ireland: glacial landforms during deglaciation. In Palacios, D., Hughes, P.D., García Ruiz, J.M., Andrés, N. (editors) *European Glacial Landscapes: Last Deglaciation*. Elsevier, 129-139, <https://doi.org/10.1016/B978-0-323-91899-2.00027-9>

[3] Hughes, P.D., Clark, C.D., Gibbard, P.L., Glasser, N.F., **Tomkins, M.D.** (2022) Britain and Ireland: glacial landforms from the Last Glacial Maximum. In Palacios, D., Hughes, P.D., García Ruiz, J.M., Andrés, N. (editors) *European Glacial Landscapes: Maximum Extent of Glaciations*. Elsevier, 407-416, <https://doi.org/10.1016/B978-0-12-823498-3.00033-9>

[2] Gibbard, P.L., Hughes, P.D., Clark, C.D., Glasser, N.F., **Tomkins, M.D.** (2022) Britain and Ireland: glacial landforms prior to the Last Glacial Maximum. In Palacios, D., Hughes, P.D., García Ruiz, J.M., Andrés, N. (editors) *European Glacial Landscapes: Maximum Extent of Glaciations*. Elsevier, 245-253, <https://doi.org/10.1016/B978-0-12-823498-3.00050-9>

[1] Hughes, P.D., Clark, C.D., Gibbard, P.L., Glasser, N.F., **Tomkins, M.D.** (2022) Glacial landscapes of Britain and Ireland. In Palacios, D., Hughes, P.D., García Ruiz, J.M., Andrés, N. (editors) *European Glacial Landscapes: Maximum Extent of Glaciations*. Elsevier, 75-85, <https://doi.org/10.1016/B978-0-12-823498-3.00014-5>

TEACHING EXPERIENCE - 2021/22 academic year	<b>The University of Manchester</b>	<i>Course ID</i>	
	<i>Postgraduate courses:</i>		
	Understanding GIS (5 semesters)	GEOG71552	
	GIS & Environmental Applications (1 semester)	GEOG60951	
	Environmental Monitoring and Modelling Concepts (2 semesters)	GEOG70581	
	<i>Undergraduate courses:</i>		
	Mediterranean Quaternary Landscapes (2 semesters)	GEOG30132	
	Geomorphology (1 semester)	GEOG21512	
	Our Frozen Planet (1 semester)	GEOG30222	
	Glaciers (1 semester)	GEOG20351	
	Key Ideas (2 semesters)	GEOG10192	
	Skills for Geographers - Quantitative Methods (2 semesters)	GEOG20621	
	Green Planet: Plant Ecology and Global Change (2 semesters)	GEOG31041	
	RESEARCH FUNDING	<b>Ministerio de Ciencia e Innovación</b>	
		Contribution to scientific proposal PID2020-119772RB-100 (neither PI or Co-PI).	€278,300
<i>"New approaches to earthquake source characterization and their effective integration into fault-based seismic hazard models. Case studies in areas of low-to-intermediate activity of eastern Iberia (NSOURCES)", 2021</i>			
<b>Royal Geographical Society</b>			
Postgraduate Research Award, 2018		£2,000	
Dudley Stamp Memorial Award, 2017		£500	
<b>Quaternary Research Association</b>			
New Research Workers' Award, 2018		£1,200	
<b>British Society for Geomorphology</b>			
Postgraduate Research Grant, 2018		£600	