

John R. Elliott

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Academic Positions

2016–present	University Research Fellow (URF) — Royal Society
2019–present	Senior Academic Fellow
2016–2019	University Academic Fellow (UAF) — Active Tectonics & Earthquake Hazard Institute of Geophysics & Tectonics, School of Earth & Environment, University of Leeds
2014–2016	Post-Doctoral Researcher — Geodesy and Geophysics (NERC) Centre for the Observation & Modelling of Earthquakes, Volcanoes & Tectonics (COMET+) & Earthquakes without Frontiers (EwF) - Increasing Resilience to Natural Hazards (IRNH) Department of Earth Sciences, University of Oxford, South Parks Road, OX1 3AN
2013 (3 month)	Stipendiary Lecturer in Earth Sciences , University College, University of Oxford
2013–2015	Visiting Researcher , (1 dy/wk), School of Earth Sciences, University of Bristol
2009–2014	Post-Doctoral Researcher — Geodesy and Geophysics National Centre for Earth Observation (NCEO/NERC), Earth Sciences, Oxford
2012 (3 month)	Post Doctoral Visitor , Tectonics Observatory, Caltech, USA
2006–2011	Undergraduate Tutor in geophysics & seismology for five Oxford University colleges

Education

2005–2010	University of Oxford, D.Phil. , Earth Sciences, Parks Road, OX1 3PR
(awarded 19th March 2010)	D.Phil. Thesis: satellite radar measurements of fault slip rates & ground deformation from earthquakes and technique development to reduce atmospheric noise.
2001–2005	University of Cambridge , Pembroke College, CB2 1RF MSci Thesis: Mapping of recent lava flows on the Kameni Islands volcano, Santorini, Greece MSci — Geological Sciences 1st Class BA (Hons) — Natural Sciences 1st Class
1994–2001	Reading School , Erleigh Road, Reading. RG1 5LW A-Levels Maths (A), Further Maths (A), Physics (A), Chemistry (A), Biology (A) S-Level Maths (Distinction), Certificate in Additional Mathematics (A) GCSEs 11 Subjects at Grade A*, 1 Subject at Grade A

Supervisory, Lecturing & Teaching Experience

2017–present	Lecturer — Research Seminars & Geophysics — 3rd year undergraduate courses
2016–present	PhD Supervisor — supervision of PhD. research students (4 as lead, 5 as Co-supervisor)
2009–2016	Co-supervision — informal supervision of D.Phil. (3) & Masters students (4)
2014–2015	Lecturer — Remote Sensing & Active Tectonics — 2nd yr undergraduate course
2013	College Tutorial Fellow — teaching & pastoral care for 20 undergraduates (1 term)
2011–2013	Guest Lecturer — Bristol, Oxford Brookes & Oxford Continuing Education (4 lectures)
2010–2011	Research Supervisor — primary supervisor to two masters MSci research projects
2006–2013	Undergraduate Tutor — teaching geophysics courses to undergraduate students
2006–2011/14	Field trip Demonstrator — Lead assistant to lecturers on tectonics undergraduate course
2006 & 2008	Geology field trip courses — Teaching/demonstrating course Assynt, Arran & Cornwall

Fellowships, Scholarships & Awards

2020	AGU Geodesy section — John Wahr Early Career award
2016	Royal Society University Research Fellowship — independent research funding
2012	Lloyd's Science of Risk Research Prize — runner-up in natural hazards category
2011	AGU Citation — for excellence in peer-reviewing
2011	NERC/NCEO Scientific Writing — science communication award
2010	OxTalent — academic research digital imagery runner-up award
2005	NERC Algorithm PhD — research funding (blue skies), Oxford
2005	Harkness Scholarship — for highest MSci examination result
2005	Natural Sciences Award — for academic achievement
2005	Shell Personal Development Award — industry award for fieldwork
2004	Dr Stoneley Prize — highest BA examination result
2003	Framlingham Prize — for 1st Class examination result
2002	Pembroke College — scholarship prize for outstanding examination results

h-index = **29** (*Google Scholar*, 3243 cites, average 58 cites per published article),
26 (*Scopus*, 2659 cites),
average 47 cites per published article).

[*] 11 publications as first author

[†] 14 as a major (or only) contributing 2nd author

[‡] 9 publications with a student as first author

[°] 2 publications with advised postdoc as 1st author

[] 23 publications as a minor contributing co-author

in review

[59†] Liu, F., **J. R. Elliott**, T. J. Craig, A. Hooper & T. J. Wright (*in review*), Improving the Resolving Power of InSAR for Earthquakes Using Time Series: A Case Study in Iran

[58°] Amey, R. M. J., **J. R. Elliott**, Hussain, E., R. J. Walker, V. Silva & K. Abdrakhmatov (*in review*), Significant Seismic Risk Potential from Buried Faults Beneath Almaty City, Kazakhstan, revealed from high-resolution satellite DEMs, *Earth & Space Science*.

[57] Gunawan, E, Amey, R. M. J., **J. R. Elliott**, S. Widiyantoro, N. T. Puspito, N. R. Hanifa, Syamsuddin (*in review*), Deep coseismic slip of the 19 August 2018 Lombok, Indonesia, earthquake revealed by the joint inversion of InSAR and GPS data, *Physics of the Earth and Planetary Interiors*.

2020

[56*] **Elliott, J. R.** (2020), Earth Observation for the assessment of earthquake hazard, risk and disaster management, *Surveys in Geophysics*, 41, 1323–1354, doi:10.1007/s10712-020-09606-4. 

[55*] **Elliott, J. R.**, M. de Michele & H. K. Gupta (2020), Earth Observations for Crustal Tectonics and Earthquake Hazards, *Surveys in Geophysics*, 41, 1355–1389, doi:10.1007/s10712-020-09608-2. 

[54] Weiss, J. R., R. J. Walters, Y. Morishita, Y., T. J. Wright, M. Lazecky, H. Wang, E. Hussain, A. J. Hooper, **J. R. Elliott**, C. Rollins, C. Yu, P. Gonzalez, K. Spaans, Z. Li & B. Parsons (2020), High-resolution surface velocities and strain for Anatolia from Sentinel-1 InSAR and GNSS data, *Geophysical Research Letters*, 47, doi:10.1029/2020GL087376. 

[53°] Hussain, E., **J. R. Elliott**, V. Silva, M. Vilar-Vega & D. Kane (2020), Contrasting seismic risk for Santiago, Chile, from near-field and distant earthquake sources, *Natural Hazards and Earth Systems Science*, 20, 1533–1555, doi:10.5194/nhess-20-1533-2020. 

[52†] Elliott, A. J., **J. R. Elliott**, J. Hollingsworth,

G. Kulikova, B. Parsons & R. Walker (2020), Satellite imaging of the 2015 M7.2 earthquake in the Central Pamir, Tajikistan, elucidates a sequence of shallow strike-slip ruptures of the Sarez-Karakul fault, *Geophysical Journal International*, 221, 1696–1718, doi:10.1093/gji/ggaa090. 

[51] Ingleby, T., T. J. Wright, A. Hooper, T. J. Craig & **J. R. Elliott** (2020), Constraints on the Geometry and Frictional Properties of the Main Himalayan Thrust Using Coseismic, Postseismic, and Interseismic Deformation in Nepal, *Journal of Geophysical Research*, doi:10.1029/2019JB019201. 

[50] Morishita, Y., M. Lazecky, T. J. Wright, J. R. Weiss, **J. R. Elliott**, & A. Hooper (2020), LiCSBAS: An open-source InSAR time series analysis package integrated with the LiCSAR automated Sentinel-1 InSAR processor, *Remote Sensing*, 12, doi:10.3390/rs12030424. 

2019

[49] Campbell, G. E., R. T. Walker, K. Abdrakhmatov, S. Carolin, A. S. Carr, **J. R. Elliott**, J. A. Jackson, D. Mackenzie, M. Rizza & A. Rodes (2019), Rapid Late Quaternary Slip, Repeated Prehistoric Earthquake Rupture, and Widespread Landsliding Associated With the Karakudzhur Thrust, Central Kyrgyz Tien Shan, *Tectonics*, 38, doi:10.1029/2018TC005433. 

[48†] Shen, L., A. Hooper & **J. R. Elliott** (2019), A spatially-varying scaling method for InSAR tropospheric corrections using a high resolution weather model, *Journal of Geophysical Research*, 124, 4051–4068, doi:10.1029/2018JB016189. 

[47] Nissen, E., A. Ghods, E. Karasozen, **J. R. Elliott**, W. D. Barnhart, E. A. Bergman, G. P. Hayes, M. Jamal-Reyhani, M. Nemati, F. Tan, W. Abdulnaby, H. M. Benz, M. P. Shahvar, M. Talebian & L. Chen (2019), The 12 November 2017 M_w 7.3 Ezgeleh–Sarpolzahab (Iran) earthquake and active tectonics of the Lurestan arc, *Journal of Geophysical Research*, 124, 2124–2152, doi:10.1029/2018JB016221. 

2018

[46] Walters, R. J., L. C. Gregory, L. Wedmore, T. J. Craig, K. McCaffrey, M. Wilkinson, J. Chen, Z. Li, **J. R. Elliott**, H. Goodall, F. Iezzi, F. Livio, A. M. Michetti, G. Roberts & E. Vittori (2018), Dual control of fault intersections on stop-start rupture in the 2016 Central Italy seismic sequence, *Earth and Planetary Science Letters*, 500, 1–14, doi:10.1016/j.epsl.2018.07.043. 

[45[†]] Sloan, R. A., **J. R. Elliott**, M. P. Searle & C. K. Morley (2017), 'Active Tectonics of Myanmar and the Andaman Sea', in Barber, A. J., Khin Zaw & Crow, M. J. (eds.), *Myanmar: Geology, Resources and Tectonics*, Geological Society, London, Memoirs, 48, 19–52, doi:[10.1144/M48.2](https://doi.org/10.1144/M48.2). 

[44[†]] Ainscoe, E. A., **J. R. Elliott**, A. Copley, T. J. Craig, T. Li, B. E. Parsons & R. T. Walker (2017), Blind Thrusting, Surface Folding and the Development of Geological Structure in the M_w 6.3 2015 Pishan (China) Earthquake, *Journal of Geophysical Research*, 122, doi:[10.1002/2017JB014268](https://doi.org/10.1002/2017JB014268). 

[43] Grutzner, C., R. T. Walker, K. E. Abdrakhmatov, A. Mukambaev, A. J. Elliott & **J. R. Elliott** (2017), Active Tectonics Around Almaty and along the Zailisky Alatau Rangeland, *Tectonics*, 36, 2192–2226, doi:[10.1002/2017TC004657](https://doi.org/10.1002/2017TC004657). 

[42] Searle, M., J.-P. Avouac, **J. R. Elliott**, & B. Dyck (2017), Ductile shearing to brittle thrusting along the Nepal Himalaya: linking Miocene channel flow and critical wedge tectonics to the 25th April 2015 Gorkha earthquake, *Tectonophysics*, 714–715, 117–124, doi:[10.1016/j.tecto.2016.08.003](https://doi.org/10.1016/j.tecto.2016.08.003). 

[41] Hamling, I. J., S. Hreinsdottir, K. Clark, **J. R. Elliott**, C. Liang, E. Fielding, N. Litchfield, P. Villamor, L. Wallace, T. J. Wright, E. D'Anastasio, S. Bannister, D. Burbidge, P. Denys, P. Gentle, J. Howarth, C. Mueller, N. Palmer, C. Pearson, W. Power, P. Barnes, D. Barrell, R. Van Dissen, R. Langridge, T. Little, A. Nicol, J. Pettinga, J. Rowland & M. Stirling (2017), Complex multifault rupture during the 2016 M_w 7.8 Kaikōura earthquake, New Zealand, *Science*, 356, doi:[10.1126/science.aam7194](https://doi.org/10.1126/science.aam7194). 

[40[†]] Middleton, T. A., **J. R. Elliott**, E. J. Rhodes, S. Sherlock, R. T. Walker, W. Wang, J. Yu & Y. Zhou (2017), Extension rates across the northern Shanxi Grabens, China, from Quaternary geology, seismicity and geodesy, *Geophysical Journal International*, 209, 535–558 doi:[10.1093/gji/ggx031](https://doi.org/10.1093/gji/ggx031). 

[39] Grutzner, C., E. Carson, R. T. Walker, E. J. Rhodes, A. Mukambayev, D. Mackenzie, **J. R. Elliott**, G. Campbell, & K. Abdrakhmatov (2017), Assessing the activity of faults in continental interiors: palaeoseismic insights from SE Kazakhstan, *Earth and Planetary Science Letters*, 459, 93–104, doi:[10.1016/j.epsl.2016.11.025](https://doi.org/10.1016/j.epsl.2016.11.025). 

[38] Walker, R. T. & K. Wegmann, A. Bayasgalan, R. Carson, **J. R. Elliott**, M. Fox, E. K. Nissen & R. A. Sloan (2017), The Egiin Davaa prehis-

toric rupture, central Mongolia: a large magnitude normal faulting earthquake on a reactivated fault with little cumulative slip located in a slowly deforming intraplate setting, *Seismicity, Fault Rupture and Earthquake Hazards in Slowly Deforming Regions*, Geological Society, London, Special Publications, 432, 187–212, doi:[10.1144/SP432.4](https://doi.org/10.1144/SP432.4). 

2016

[37*] **Elliott, J. R.**, R. J. Walters & T. J. Wright (2016), The role of space-based observation in understanding and responding to active tectonics and earthquakes, *Nature Communications*, 7, doi:[10.1038/ncomms13844](https://doi.org/10.1038/ncomms13844). 

[36[†]] Middleton, T. A., R. T. Walker, D. H. Rood, E. J. Rhodes, B. Parsons, Q. Lei, **J. R. Elliott**, Z. Ren & Y. Zhou (2016), The tectonics of the western Ordos Plateau, Ningxia, China: slip rates on the Luoshan and East Helanshan Faults, *Tectonics*, 35, 2754–2777, doi:[10.1002/2016TC004230](https://doi.org/10.1002/2016TC004230). 

[35[†]] Ebmeier, S. K., **J. R. Elliott**, J.-M. Nocquet, J. Biggs, P. Mothes, P. Jarrin, M. Yezpez, S. Aguiza, P. Lungdren & S. Samsonov (2016), Shallow earthquake inhibits unrest at Chiles-Cerro Negro volcanoes, Ecuador-Columbian border, *Earth and Planetary Science Letters*, 450, 283–291, doi:[10.1016/j.epsl.2016.06.046](https://doi.org/10.1016/j.epsl.2016.06.046). 

[34] Floyd, M. A., R. J. Walters, **J. R. Elliott**, G. J. Funning, J. L. Svarc, J. H. Murray, A. J. Hooper, Y. Larsen, P. Marinkovic, R. Bürgmann, I. A. Johanson & T. J. Wright (2016), Spatial variations in fault friction related to lithology from rupture and afterslip of the 2014 South Napa, California, earthquake, *Geophysical Research Letters*, 43, 6808–6816, doi:[10.1002/2016GL069428](https://doi.org/10.1002/2016GL069428). 

[33] Catlos, E. J., A. M. Friedrich, T. Lay, **J. R. Elliott**, S. Carena, B. Upreti, P. Decelles, B. Tucker & R. Bendick (2016), Nepal at Risk: Interdisciplinary Lessons Learned from the April 2015 Nepal (Gorkha) Earthquake and Future Concerns, *GSA Today*, 26, 42–43, doi:[10.1130/GSATG278GW.1](https://doi.org/10.1130/GSATG278GW.1). 

[32[†]] Mackenzie, D., **J. R. Elliott**, E. Altunel, R. T. Walker, Y. C. Kurban, J. L. Schwenninger & B. Parsons (2016), Seismotectonics and rupture process of the M_w 7.1 2011 Van reverse-faulting earthquake, Eastern Turkey, and implications for hazard in regions of distributed shortening, *Geophysical Journal International*, 206, 501–524, doi:[10.1093/gji/ggw158](https://doi.org/10.1093/gji/ggw158). 

[31] Searle, M. P., N. M. W. Roberts, S.-L. Chung, Y.-H. Lee, K. L. Cook, **J. R. Elliott**, O. M. Weller, M. R. St-Onge, X.-W. Xu, X.-B. Tan & K. Li (2016), Age and Anatomy of the Gongga Shan batholith,

eastern Tibetan Plateau, and its relationship to the active Xianshui-he fault, *Geosphere*, 12, 948–970, doi:[10.1130/GES01244.1](https://doi.org/10.1130/GES01244.1). 

[30[†]] Zhou, Y., R. T. Walker, **J. R. Elliott** & B. Parsons (2016), Mapping 3D fault geometry in earthquakes using high-resolution topography: Examples from the 2010 El Mayor-Cucapah (Mexico) and 2013 Balochistan (Pakistan) earthquakes, *Geophysical Research Letters*, 43, 3134–3142, doi:[10.1002/2016GL067899](https://doi.org/10.1002/2016GL067899). 

[29[†]] Nissen, E. K., **J. R. Elliott**, R. A. Sloan, T. J. Craig, G. J. Funning, A. Hutko, B. E. Parsons & T. J. Wright (2016), Limitations of rupture forecasting exposed by instantaneously triggered earthquake doublet, *Nature Geoscience*, 9, 330–336, doi:[10.1038/ngeo2653](https://doi.org/10.1038/ngeo2653). 

[28^{*}] **Elliott, J. R.**, R. Jolivet, P. Gonzalez, J.-P. Avouac, J. Hollingsworth, M. Searle & V. Stevens (2016), Himalayan Megathrust Geometry and Relation to Topography Revealed by the Gorkha Earthquake, *Nature Geoscience*, 9, 174–180, doi:[10.1038/NGEO2623](https://doi.org/10.1038/NGEO2623). 

2015

[27[†]] Zhou, Y., B. Parsons, **J. R. Elliott**, I. Barisin & R. T. Walker (2015), Assessing the ability of Pleiades stereo imagery to determine height changes in earthquakes: a case study for the El Mayor-Cucapah epicentral area, *Journal of Geophysical Research*, 120, 8793–8808, doi:[10.1002/2015JB012358](https://doi.org/10.1002/2015JB012358). 

[26^{*}] **Elliott, J. R.**, E. Bergman, A. C. Copley, A. R. Ghods, E. K. Nissen, B. Oveisi, M. Tatar, R. J. Walters & F. Yamini-Fard (2015), The 2013 Mw 6.2 Khaki-Shonbe (Iran) Earthquake: insights into seismic and aseismic shortening of the Zagros sedimentary cover, *Earth & Space Science*, 2, 435–471, doi:[10.1002/2015EA000098](https://doi.org/10.1002/2015EA000098). 

[25] Copley, A., E. Karasozen, B. Oveisi, **J. R. Elliott**, S. Samsonov & E. K. Nissen (2015), Seismogenic faulting of the sedimentary sequence and laterally-variable material properties in the Zagros Mountains (Iran) revealed by the August 2014 Murmuri (Dehloran) earthquake sequence, *Geophysical Journal International*, 203, 1436–1459, doi:[10.1093/gji/ggv365](https://doi.org/10.1093/gji/ggv365). 

[24] Campbell, G. E., R. T. Walker, K. Abdrakhmatov, J. Jackson, **J. R. Elliott**, D. Mackenzie, T. Middleton & J.-L. Schwenninger (2015), Great earthquakes in low-strain-rate continental interiors: an example from SE Kazakhstan, *Journal of Geophysical Research*, 120, 5507–5534, doi:[10.1002/2015JB011925](https://doi.org/10.1002/2015JB011925). 

[23[†]] Zhou, Y., **J. R. Elliott**, R. T. Walker & B. Parsons (2015), The 2013 Balochistan earth-

quake: an extraordinary or completely ordinary event?, *Geophysical Research Letters*, 42, 6236–6243, doi:[10.1002/2015GL065096](https://doi.org/10.1002/2015GL065096). 

[22^{*}] **Elliott, J. R.**, A. Elliott, A. Hooper, Y. Larsen, P. Marinkovic & T. J. Wright (2015), Earthquake monitoring gets boost from new satellite, *Eos*, 96, 14–18, doi:[10.1029/2015EO023967](https://doi.org/10.1029/2015EO023967). 

2014

[21] Nissen, E. K., T. Maruyama & J. R. Arrowsmith, **J. R. Elliott**, A. Krishnan, M. Oskin & S. Saripalli (2014), Coseismic fault zone deformation revealed with differential LiDAR: Examples from Japanese Mw 7 intraplate earthquakes, *Earth and Planetary Science Letters*, 405, 244–256, doi:[10.1016/j.epsl.2014.08.031](https://doi.org/10.1016/j.epsl.2014.08.031). 

[20[†]] Wang, H., **J. R. Elliott**, T. J. Craig, T. J. Wright, J. Liu-Zeng & A. Hooper (2014), Normal faulting sequence in the Pumqu-Xainza Rift constrained by InSAR and teleseismic body-wave seismology, *Geochemistry, Geophysics, Geosystems*, 15, 2947–2963, doi:[10.1002/2014GC005369](https://doi.org/10.1002/2014GC005369). 

2013

[19[†]] Wright, T. J., **J. R. Elliott**, H. Wang & I. Ryder (2013), Earthquake cycle deformation and the Moho: Implications for the rheology of continental lithosphere, *Tectonophysics*, 609, 504–523, doi:[10.1016/j.tecto.2013.07.029](https://doi.org/10.1016/j.tecto.2013.07.029). 

[18] Feng, W., Z. Li, **J. R. Elliott**, Y. Fukushima, T. Hoey, A. Singleton, R. Cook & Z. Xu (2013), The 2011 Mw 6.8 Burma earthquake: Fault constraints provided by multiple SAR techniques, *Geophysical Journal International*, 195, 650–660, doi:[10.1093/gji/ggt254](https://doi.org/10.1093/gji/ggt254). 

[17] Campbell, G. E., R. T. Walker, K. Abdrakhmatov, J. L. Schwenninger, J. A. Jackson, **J. R. Elliott** & A. C. Copley (2013), The Dzhungarian fault: Late Quaternary tectonics and slip rate of a major right-lateral strike-slip fault in the northern Tien Shan region, *Journal of Geophysical Research*, 118, 5681–5698, doi:[10.1002/jgrb.50367](https://doi.org/10.1002/jgrb.50367). 

[16[†]] Crowley, K. & **J. R. Elliott** (2013), A reply to Gomez and Hart's 'goldrush', *The Geographical Journal*, 179, 278, doi:[10.1111/geoj.12044](https://doi.org/10.1111/geoj.12044). 

[15[†]] Walters, R. J., **J. R. Elliott**, Z. Li & B. Parsons (2013), Rapid strain accumulation on the Ashkabad fault (Turkmenistan): a robust slip rate estimate from MERIS-corrected InSAR data, *Journal of Geophysical Research*, 118, 3674–3690, doi:[10.1002/jgrb.50236](https://doi.org/10.1002/jgrb.50236). 

[14*] **Elliott, J. R.**, A. C. Copley, R. Holley, K. Scharer & B. Parsons (2013), The 2011 Mw 7.1 Van (Eastern Turkey) Earthquake, *Journal of Geophysical Research*, *118*, 1619–1637, doi:[10.1002/jgrb.50117](https://doi.org/10.1002/jgrb.50117). 

[13] Walker, R. T., E. A. Bergman, **J. R. Elliott**, E. J. Fielding, A.-R. Ghods, M. Ghorashi, J. Jackson, M. Nemati, B. Ovesi, M. Talebian & R. Walters (2013), The 2010–2011 South Rigan (Baluchestan) earthquake sequence and its implications for distributed deformation and earthquake hazard in south-east Iran, *Geophysical Journal International*, *193*, 349–374, doi:[10.1093/gji/ggs109](https://doi.org/10.1093/gji/ggs109). 

2012

[12†] Crowley, K. & **J. R. Elliott** (2012), Earthquake disasters and resilience in the Global North: lessons from New Zealand and Japan, *The Geographical Journal*, *178*, 208–215, doi:[10.1111/j.1475-4959.2011.00453.x](https://doi.org/10.1111/j.1475-4959.2011.00453.x). 

[11] Ebmeier, S. K., J. Biggs, T. A. Mather, **J. R. Elliott**, G. Wadge & F. Amelung (2012), Measuring large topographic change with InSAR: Lava thicknesses, extrusion rate and subsidence rate at Santiaguito volcano, Guatemala, *Earth and Planetary Science Letters*, *335*, 216–225, doi:[10.1016/j.epsl.2012.04.027](https://doi.org/10.1016/j.epsl.2012.04.027). 

[10*] **Elliott, J. R.**, E. K. Nissen, P. C. England, J. A. Jackson, S. Lamb, Z. Li, M. Oehlers & B. Parsons (2012), Slip in the 2010–2011 Canterbury earthquakes, New Zealand, *Journal of Geophysical Research*, *117*, B03401, doi:[10.1029/2011JB008868](https://doi.org/10.1029/2011JB008868). 

2011

[9†] Bell, M. A., **J. R. Elliott** & B. E. Parsons (2011), Interseismic strain accumulation across the Manyi fault (Tibet) prior to the 1997 M_w 7.6 earthquake, *Geophysical Research Letters*, *38*, L24302, doi:[10.1029/2011GL049762](https://doi.org/10.1029/2011GL049762). 

[8†] Li, Z., **J. R. Elliott**, W. Feng, J. A. Jackson, B. Parsons & R. J. Walters (2011), The 2010 Mw 6.8 Yushu (Qinghai, China) earthquake: Constraints provided by InSAR and body wave seismology, *Journal of Geophysical Research*, *116*, B10302, doi:[10.1029/2011JB008358](https://doi.org/10.1029/2011JB008358). 

[7*] **Elliott, J. R.**, B. Parsons, J. A. Jackson, X. Shan, R. A. Sloan & R. T. Walker (2011), Depth segmentation of the seismogenic continental crust: The

2008 and 2009 Qaidam earthquakes, *Geophysical Research Letters*, *38*, L06305, doi:[10.1029/2011GL046897](https://doi.org/10.1029/2011GL046897). 

[6†] Searle, M. P., **J. R. Elliott**, R. J. Phillips & S.-L. Chung (2011), Crustal-lithospheric and continental extrusion of Tibet, *Journal of the Geological Society of London*, *168*, 633–672, doi:[10.1144/0016-76492010-139](https://doi.org/10.1144/0016-76492010-139). 

2010

[5*] **Elliott, J. R.**, R. J. Walters, P. C. England, J. A. Jackson, Z. Li & B. Parsons (2010), Extension on the Tibetan plateau: recent normal faulting measured by InSAR and body wave seismology, *Geophysical Journal International*, *183*, 503–535, doi:[10.1111/j.1365-246X.2010.04754.x](https://doi.org/10.1111/j.1365-246X.2010.04754.x). 

[4] Nissen, E., F. Yamini-Fard, M. Tatar, A. Gholamzadeh, E. Bergman, **J. R. Elliott**, J. A. Jackson & B. Parsons (2010), The vertical separation of mainshock rupture and microseismicity at Qeshm island in the Zagros fold-and-thrust belt, Iran, *Earth and Planetary Science Letters*, *296*, 181–194, doi:[10.1016/j.epsl.2010.04.049](https://doi.org/10.1016/j.epsl.2010.04.049). 

2009

[3†] Walters, R. J., **J. R. Elliott**, N. D'Agostino, P. C. England, I. Hunstad, J. A. Jackson, B. Parsons, R. J. Phillips & G. Roberts (2009), The 2009 L'Aquila Earthquake (Central Italy): a source mechanism and implications for seismic hazard, *Geophysical Research Letters*, *36*, L17312, doi:[10.1029/2009GL039337](https://doi.org/10.1029/2009GL039337). 

2008

[2*] **Elliott, J. R.**, J. Biggs, B. Parsons & T. J. Wright (2008), InSAR slip rate determination on the Altyn Tagh Fault, northern Tibet, in the presence of topographically correlated atmospheric delays, *Geophysical Research Letters*, *35*, L12309, doi:[10.1029/2008GL033659](https://doi.org/10.1029/2008GL033659). 

2006

[1†] Pyle, D. M. & **J. R. Elliott** (2006), Quantitative morphology, recent evolution, and future activity of the Kameni Islands volcano, Santorini, Greece, *Geosphere*, *2*, 253–268, doi:[10.1130/GES00028.1](https://doi.org/10.1130/GES00028.1). 

Theses

- 2010 **D.Phil.** — Strain accumulation & release on the Tibetan Plateau measured using InSAR (424 pgs).
2005 **MSci.** — Mapping & Morphological Interpretation of the Kameni Dacite Lavas, Santorini (122 pgs).
2004 **B.A.** — The Geology of Llyn Ogwen Valley, Snowdonia, North Wales (76 pgs).

Research Grants

- 2016–present *Secured research income of £1.2 Million as PI and £0.4 Million as Co-I:*
2019–2021 **NERC Innovation Grant £154,963, NE/S013911/1** — PI for “Embedding analysis of seismic hazard and risk for improved welfare in Bishkek, Kyrgyzstan”.
2019–2024 **GCRF NERC £338,965, NE/S009000/1** — Co-I for “Multi-hazard Urban Disaster Risk Transitions Hub.”
2018–2021 **Royal Society Research Grant £136,132, RGF/R1/180076** — PI for “Patterns of strain accumulation along a major tectonic boundary”.
2018–2019 **Royal Society GCRF Challenge Grant £99,969, CHG/R1/170038** — PI for “Seismic Hazard and Risk around Major Cities of the Northern Tien Shan”.
2018–2021 **Royal Society Enhancement Award £101,892, RGF/EA/180309** — PI for “Fault Geomorphology and Seismic Hazard of Major Fault Zones”.
2017–2018 **GCRF Building Resilience Award £201,579, NE/P015964/1** — PI for “Seismic Cities”.
2017–2018 **NERC Urgency Grant £64,330, NE/P021425/1** — Co-I for “Rapid recovery of high resolution topographic and kinematic data from the Kaikoura earthquake, New Zealand”.
2016–2021 **Royal Society University Research Fellowship £509,578** — PI for “The Rise of Mountains.”
2013–2018 **NERC Large Grant £2,815,313, NE/K011006/1** — Researcher Co-Investigator for “Looking inside the continents from space (LICS): insights into earthquake hazard and crustal deformation”.

Fieldwork

- 2019 **Kyrgyzstan & Kazhakstan** — Faulting within Cities (Bishkek & Almaty).
2018 **Turkey** — Field sampling and aerial mapping of Normal Faults, Western Turkey (Izmir).
2017 **New Zealand** — Field and aerial mapping of Kaikoura earthquake rupture.
2016 & 2011 **Kazakhstan** — Active fault mapping & alluvial fan sampling for slip rate estimates.
2014 **Uzbekistan** — Fault rupture mapping (Chatkal Mountain Range, Western Tien Shan).
2014 **Cumbria** — Near-surface geophysics training (gravimetrics, magnetics, electrical field).
2013 & 2014 **Turkey** — Active fault mapping & field sampling, Van, Eastern Turkey.
2011 **Greece** — Campaign GPS measurements Santorini Volcano.
2008 & 2007 **Taiwan** — Field assisting with laser scanning river bedrock for erosion measurements.
2007 **Morocco** — Fieldwork sampling and measuring marine coastal terraces.
2006 **Ethiopia** — Deployment of GPS instruments to measure volcanic activity in Afar.
2003 **Wales** — Independent geological fieldwork mapping of Ordovician volcano-sediments.
2003 **Scotland** — Training in field mapping, Isle of Skye.

Postdoctoral Advisor

- 2019–present **Dr Scott Watson** — Research Fellow in Earth Observation for Tomorrow Cities (co-advised).
2018–present **Dr Ruth Amey** — Research Fellow in Active Tectonics, Hazard & Risk of northern Tien Shan.
2017–2018 **Dr Ekbal Hussain** — Research Fellow for Seismic Cities — Earthquake Risk in Santiago.

PhD Lead Supervision

- 2020–present **Victoria Purcell** — Fault Geomorphology & Seismic Hazard of Major Fault Zones.
2019–present **Fei Liu** — Measuring earthquakes across the continents from space & seismological observations.
2018–present **Jack McGrath** — Relationship between short-term tectonics & mountains.
2018–present **Andrew Watson** — Co-evolution of Mountain Building & Seismic Hazard.

PhD Co-Supervision

- 2020–present **Pedro Espin** — Tectonic and Volcanic Deformation of Ecuador.
2020–present **Jin Feng** — Continental Deformation measure with InSAR.
2016–present **Lin Shen** — Altyn Tagh Interseismic Deformation.
2016–present **Pawan Piromthong** — Faulting in South-East Asia and InSAR analysis.
2014–2019 **Eleanor Ainscoe** — Active Tectonics in Regions of Shortening (University of Oxford).

Final Year Undergraduate Research Supervision

- 2019/20 **Victoria Purcell** — Subsidence Three Hundred Years On, Lanzarote, Canary Islands.
2018/19 **Matthew Day** — Detecting small shallow continental earthquakes with InSAR.
2018/19 **Daniel Roberts** — DEMs of Lava Flows & Volcanic Craters in Lanzarote, from SfM.
2017/18 **Katherine Woods** — How small can we go? Improving limits to detecting continental earthquakes.
2017/18 **Nadia Duarte da Silva Tavares** — Remote Offset Measurements of the Kaikoura Earthquake, NZ.
2016/17 **Scott Smith** — Using InSAR & Body Wave Seismology of the 2016 Mw 5.9 Menyuan Earthquake.

Undergraduate Taught Courses

- **SOEE5180M & 3221:** Module leader for Research Seminars in Geophysics (2017–present).
- **SOEE5510M & 3200:** Field instructor for Practical Geophysics in Lanzarote (2017–2019).
- **SOEE5665M & 3530:** Lecturer for Global Geophysics – Plate Tectonics (2017).

Invited Academic Presentations

- Seismic Risk from Near-field Active Faults around Expanding Cities in Economically Developing Countries, *Committee on Earth Observing Satellites, Disasters Working Group*, Reykjavik, Iceland, 24–26 September 2019.
- Crustal deformation determined from space-based observations (InSAR, optical imagery, GNSS), *International Space Science Institute Workshop*, Bern, Switzerland, 15–18 April 2019.
- Mountain Building and Unfinished Ruptures: examples from geodetic measurements of recent earthquakes, *School of Earth and Ocean Sciences, University of Victoria*, British Columbia, Canada, 15 Aug. 2017.
- **Keynote:** Earthquake Science Impact with Sentinel-1 Data *Royal Meteorological Society (RMetS) Impact of Science*, Exeter, UK, 11–12 Jul. 2017.
- The Active Tectonics of Continental Collision Zones – examples of recent thrust faulting & the 2015 Nepal Earthquake, *GNS*, Lower Hutt, Wellington, New Zealand, 13 May 2016.
- **GSA Special Session:** Geometry of the Main Himalayan Thrust fault revealed by the Gorkha earthquake, *GSA Annual Meeting*, Baltimore, USA, 2 Nov. 2015.
- Active tectonics & earthquake hazard, *School of Earth, Ocean & Ecological Sciences, University of Liverpool*, 29 Oct. 2015.
- Active tectonics & earthquake hazard, *School of Earth & Environment, University of Leeds*, 28 Oct. 2015.
- Continental tectonics & topography, *School of Earth & Environment, University of Leeds*, 19 Mar. 2015.
- Active tectonics, earthquake deformation & fault geomorphology, *Department of Earth Science and Engineering, Imperial College, London*, 3 Jun. 2014.
- Earth Observations of active tectonics, earthquake deformation & fault geomorphology, *School of Earth & Environment, University of Leeds*, 14 May 2014.
- Observations of recent earthquakes and the future of geodetic analysis of earthquakes under Sentinel, *Royal Astronomical Society*, Seismology from space: Geodetic observations and early warning of earthquakes, London, 9 May 2014.
- Earthquakes, active tectonics & fault geomorphology, *School of Environmental Sciences, UEA*, Norwich, 7 May 2014.
- Seismic hazard before and after recent continental earthquakes, *British Geophysical Association, Geological Society*, Earthquakes: from Mechanics to Mitigation, London, 13–14 Feb. 2014.
- **Keynote:** Surface displacements of recent earthquakes measured from InSAR, *9th TOPO-EUROPE Workshop*, Italy, 8–10 Oct. 2013.
- Earthquake active tectonics, fault geomorphology and InSAR, *School of Geosciences, University of Edinburgh*, 17 Jun. 2013.
- **Plenary:** Coseismic and interseismic deformation in continental areas from InSAR, *International Forum on Research Institutes for Disaster Risk Reduction*, Kyoto University, Japan, 11–13 Mar. 2013.
- Lloyds Science of Risk Natural Hazards, *Lloyds of London*, Nov. 2012.
- Recent continental earthquakes constrained by InSAR: determining source complexity, *EGU*, Vienna, Austria, 22–27 Apr. 2012.
- Slip in the 2010–2011 Canterbury Earthquakes, New Zealand & Implications for future seismic hazard in Christchurch, *Environmental Systems Science Centre, University of Reading*, Nov. 2011.

Science Workshops

- Instructor & Speaker: InSAR Training Workshop, University of Leeds, October–November 2016, 2018 and 2019 (1/2 day out of 3 days).
- Co-Instructor: InSAR Training Workshop, Univer-

sity of Leeds, January 2018 (1 day).

- Speaker: Topography Workshop, course leader: Prof Ramon Arrowsmith (Arizona State University), University of Oxford, March–April 2016 (2 days).

Professional Experience & Academic Responsibilities

- Member of Steering Committee for School of Earth and Environment advising Head of School on faculty hires, fellowship applications, capital equipment purchases and research directions (2019–2020).

- Reviewer for National Science Foundation (NSF, USA), EOS Singapore, Deutsche Forschungsgemeinschaft (DFG, German Research Foundation), Helmholtz (Germany) and New Zealand Marsden grant funding proposals.

- Reviewer for over 46 articles (2010–present) on behalf of Science Advances, Earth & Planetary Sciences Letters (EPSL), Geology, Geophysical Research Letters (GRL), Journal of Geophysical Research-Solid Earth (JGR), Geophysical Journal International (GJI), Journal of the Geological Society London (JGS), Tectonophysics, Bulletin of the Seismological Society of America (BSSA), Journal of Volcanology and Geothermal Research, Scientific Reports (SciRep), Geoscience & Remote Sensing Letters (GRSL), Pure & Applied Geophysics (PAAG), and Natural Hazards and Earth System Sciences (NHESS).

- Committee member for the Athena Swan Charter “Promoting Women in Science”, Department of Earth Sciences, Oxford, (2011 application - awarded Silver). Representative for Workplace & Equality Committee

(2012–2014).

- Session Chair: “Earthquakes & Tectonics”, ESA Fringe Conference, Italy, March 2015.

- Co-convenor Tectonophysics Session: “The Earthquake Cycle: Linking observations from satellite geodesy, high resolution topography and paleoseismology”, and Outstanding Student Judge Liaison, AGU Fall Meeting, December 2014.

- Co-organiser for the 2011 British Geophysical Association Research in Progress Conference (September 2011, 70 attendees).

- Earth Sciences department panel member for graduate assessment for D.Phil candidates. Exam marker for undergraduate project essays & final examinations. Viva examiner for Master’s projects.

- Postdoctoral representative to department faculty committee, University of Oxford (2009–2013) & post-graduate representative (2006–2009).

- Member of the American Geophysical Union (AGU) 2006–present, Fellow of the Royal Astronomical Society (RAS - Geophysics) 2011–2013, Fellow of the Geological Society of London (GSL) 2004–2010, Member of the Geological Remote Sensing Group (GRSG) 2006–2008.

External Lectures

- “Remote Sensing & Active Tectonics”, 2nd Yr Undergraduate Lecture Short Course (4 lectures), Nov. 2014 & Oct. 2015.

- “Earth Observation”, Doctoral Training Partnership Course, University of Oxford, Oct 2014 & Nov. 2015.

- “Recent Earthquakes”, Natural Hazards & Risk Assessment Masters Course, University of Bristol, Earth Sciences, Oct. 2013.

- “Case studies of coseismic deformation from continental earthquakes”, International Centre for Theoretical Physics (ICTP), Trieste, Italy, Sept. 2013.

- “Earthquakes & Faulting: Examples of Seismic Hazard and the Recent L’Aquila Earthquake”, Architecture Department, Oxford Brookes University, Rebuilding culture and identity post disaster, Oct. 2012.

- “Frontiers of Plate Tectonics: Earthquakes & Faulting” for Oxford Department for Continuing Education, Sept. 2012.

- “Earthquake Geohazards: The Haiti & New Zealand Earthquakes”, Oxford Brookes University “Shelter After Disaster”, Development and Emergency Masters Course, Feb. 2011.

Industry Placements

July–Sep 2005	PDF Limited, Oil Consultancy, Goring, Reading Consultancy exploration research, database creation & office administration
July–Sep 2004	Blacknest, Atomic Weapons Establishment (AWE), Aldermaston, Reading Measuring seismometer background noise and correlation with wind speed
Aug–Sep 2002	Meteorological Office, Beaufort Park, Wokingham Correlation of spurious lightning locations and earthquake precursors
2000 & 2001	BG Group, Thames Valley Park, Reading Vacation internships in borehole geochemical mapping, interpretation & technical support

Media Coverage & Interviews

- Image and video provided for [BBC News Article](#) on the Kaikoura earthquake research published in *Science* (March 2017).
- Interview for [Live Science](#) on Mount Everest Shrinking after Nepal earthquake (January 2017).
- Comment & quote for [BBC News Article](#) on the Umbria (Italy) earthquake (August 2016).
- News coverage of *Nature Geoscience* research article covering the Gorkha earthquake in Nepal from 2015 and implications for the growth of the Himalayas. Various outlets including [BBC News](#), [The Guardian](#), [MailOnline](#), [The Himalayan Times](#) & [Indian Express](#) (January 2016).
- Radio interview on BBC World Service on the Nepal Earthquake [Science in Action](#) & [The Science Hour](#) (January 2016).
- Expert interview for the NOVA PBS film: [Himalayan Megquake](#) (May 2015).
- Various comments and imagery for web articles following the April 2015 Nepal earthquake including [BBC News](#), [BBC newsbeat](#) and [AGU blog](#) (April 2015).
- Comment & quotes for [BBC News Article](#) on the Napa (California) earthquake & new Sentinel satellite (2014).
- Interview comment on L'Aquila earthquake trial (2012) Italian Newspaper (Il Secolo XIX).
- Case study interview on [Pathways to Impact](#) for Research Councils UK (2012).
- News quotation for [BBC News Article](#) “Italy caught in Earth’s pincer” (2012).
- [Measuring Movement in the Land](#), the New Zealand Earthquakes, The Science Show, ABC Australia, Radio Interview, 2011.
- Christchurch quake mapped from space (2011) [BBC News Article](#). [Accompanying Oxford University Blog](#).
- Tohoku Earthquake Japan (2011): 2 live TV interviews (BBC World and SKY TV), 6 BBC live radio interviews (Worldwide, National and Local stations), 2 telephone interviews ([BBC](#) & [Wall Street Journal](#)) giving expert opinion on the Japan 2011 earthquake, March 2011.
- Haiti Earthquake (2010) [Nature News Article](#).
- L'Aquila Earthquake, Italy (2009) [Nature News Article](#).

School, Public & NGO Engagement

- **Invited Speaker:** “Putting all my faults on display”, Pint of Science, Leeds, May 2019.
- **Invited Speaker:** Cafe Scientifique, Earthquakes and Mountain Building, Pendle November 2018.
- Earthquake Workshop for “IntoUniversity” - schools outreach programme for widening participation in higher education, August 2018.
- **Invited Keynote Speaker:** Pasa Puchah Guthi UK, School of Oriental and African Studies (SOAS), “Gorkha Earthquake in Nepal and the Continuing Seismic Hazard Along the Himalayan Front”, London, May 2016.
- **Invited Speaker:** Oxford University Nepal Society, 1 hr Seminar ([filmed](#)), “The 2015 Nepal Earthquake”, March 2016.
- **Invited Speaker (twice):** Natural History Museum: 45 minute interview (live audience and filmed) for their “Meet A Scientist - Nature Live” Series, London March 2014 and March 2011.
- **Invited Speaker:** “GEOHAZARDS: Disasters & Resilience Seen In Recent Global Earthquakes” for Architecture Sans Frontieres (NGO), UK Summer Workshop “An alternative view on disasters and development”, September 2011.

- Briefing paper for Shelter Box (Charity), on the 2011 Tohoku (Japan) earthquake, March 2011.
- **Invited Speaker:** “Satellite Observations of Ground Deformation in the Haiti Earthquake & Implications for Seismic Hazard and Rebuilding”, UK Shelter Forum, Oxfam, March 2010.

ter Forum, Oxfam, March 2010.

- Talk to the Oxford Geology Group (a local amateur group) on recent devastating earthquakes (L'Aquila, Bam, Wenchuan), March 2009.

Major Training Courses Attended

- Software Carpentry & Python Programming, course leaders: Dr Jon Mound & Dr Andrew Walker, University of Leeds, August 2015 (3 days).
- GPS Processing Course (GAMIT-GLOBK), course leaders: Dr Mike Floyd (MIT) and Dr Kirill Palamarchouk (Newcastle), University of Bristol, January 2015 (1 week).
- Computational Infrastructure for Geodynamics, Crustal Deformation Modeling Workshop, course leader: Dr Brad Aagaard (USGS), Stanford University, USA, June 2014 (1 week).
- NERC Geophysical Skills Development for Environmental Scientists (GPR, resistivity, gravity, magnetism), course leader: Dr Nigel Cassidy, Keele & Cumbria, UK, March 2014 (7 days).
- Earthquake relocation clusters, course leader: Dr Eric Bergman, Colorado, USA, June 2013 (2 weeks).
- NERC Public Engagement Training, Swindon, March 2011 (2 days).
- NERC UK Grad School, Career opportunities, Bournemouth, July 2008 (1 week).
- Scientific Computing for DPhil Students, Numerical Linear Algebra, course leader Prof Nick Trefethen, Oxford, October–November 2007 (1 term).

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- NERC UK Grad School, Career opportunities, Bournemouth, July 2008 (1 week).
- Scientific Computing for DPhil Students, Numerical Linear Algebra, course leader Prof Nick Trefethen, Oxford, October–November 2007 (1 term).

Institution Presentations

- **Kyrgyz Republic Institute of Seismology**, “Embedding analysis of seismic hazard and risk for improved welfare in Bishkek, Kyrgyzstan”, Bishkek, Kyrgyzstan, July 2019.
- **Uzbekistan Academy of Sciences**, “Earthquakes & Earthquake Hazards”, Tashkent, Uzbekistan, August 2014.
- InSAR Workshop, **International Centre for Theoretical Physics (ICTP) (Italy)**, “Depth segmentation of reverse faulting”, September 2013.
- Strain Mapping Workshop, University of Leeds, “Towards automated InSAR source solutions for continental earthquakes”, July 2013.
- Earth Evolution Sciences, **Tsukuba University (Japan)**, “Coseismic and interseismic deformation in continental areas from InSAR”, March 2013.
- JLT Reinsurance, “Continental Earthquakes”, Oxford, August 2012.
- Civil Engineering & Geosciences, **Delft University of Technology (Netherlands)**, “Recent continental earthquakes constrained by InSAR: determining source complexity”, July 2012.

- Tectonics Observatory, **Caltech, California (USA)**, “Recent continental earthquakes constrained by InSAR: determining source complexity”, February 2012.

- National Centre for Earth Observation (NCEO) Annual Meeting, “Slip in the 2010–2011 Canterbury Earthquakes, New Zealand and implications for future seismic hazard in Christchurch”, Warwick, September 2011.

- School of Geographical and Earth Sciences, University of Glasgow, “The Darfield & Christchurch (New Zealand) earthquakes — fault modelling & implications for future seismic hazard”, April 2011.

- National Centre for Earth Observation (NCEO) Annual Meeting, “Haiti, Qaidam & Yushu — Earthquake Hazard, Science & Serendipity”, Leicester, September 2010.

- Chinese Earthquake Administration (CEA), **Beijing (China)**, “Extension In Tibet: Recent Normal Faulting Earthquakes measured with InSAR”, May 2010.

- National Centre for Earth Observation (NCEO) Annual Meeting, “The 2009 L'Aquila Earthquake”, Oxford, September 2009.