



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type A post-doc fellowship

Thomas Matthew Vandyk

CURRICULUM VITAE

Domanda concorso Assegno di Ricerca - Prof. Fabrizio Felletti - Cod. ID: 4930

PERSONAL INFORMATION

Surname	Vandyk
Name	Thomas Matthew
Date of birth	[14, 01, 1977]

PRESENT OCCUPATION

Appointment	Structure
PhD Student	London NERC Doctoral Training Partnership

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Degree	BSc (hons) Open (specialising Earth Sciences)	Open University	2015
Specialization	n/a	n/a	n/a
PhD	Geology	Royal Holloway University of London; Univeristy College London (UCL)	Completes September this year
Master	Earth Sciences by research	Royal Holloway Univeristy of London	2017
Degree of medical specialization	n/a	n/a	n/a
Degree of European	n/a	n/a	n/a



specialization			
Other			

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
n/a	n/a	n/a

FOREIGN LANGUAGES

Languages	level of knowledge
Italian	Basic (GCSE A* grade)
French	Basic (GCSE A grade)
English	Fluent

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2019	Student Research Grant. Society for Sedimentary Geology (SEPM)
2019	New Researchers Award. Geologists' Association
2019	Postgraduate Grant Scheme. International Association of Sedimentologists
2019	Postgraduate Research Grant. British Society for Geomorphology
2017	Ian Gass Bursary. Open University Faculty of Science
2017	Kirsty Brown Memorial Fund. Administered by Royal Holloway
2017	Robert Scott Memorial Award. CASP/Geological Society of London
2016	Crowther Fund. Open University

TRAINING OR RESEARCH ACTIVITY

description of activity

PROJECT ACTIVITY

Year	Project
2019	Mineral Fork Fm, Utah (including Turbidites, debrites)
2019	Gepatsch glacier Austria
2019	Fengtai Fm, China (including Turbidites, debrites)



2019	Horse Thief Spr., Kingston Peak Fm, Death Valley (including Turbidites, debrites)
2018	Luoquan - Fengtai Fm, China (including debrites)
2017	Yuermeinak Fm, Tarim and Luoquan Fm, China (including Turbidites, debrites)
2017	Kingston Peak Fm, Noonday Dol., Death Valley (including Turbidites, debrites)
2016	Kingston Peak Fm, Death Valley (including Turbidites, debrites)
2016	Kingston Peak Fm, Death Valley (including Turbidites, debrites)

PATENTS

n/a

CONGRESSES AND SEMINARS

Date	Title	Place
2021	Farnham Geological Society outreach lecture	online
2020	British Sedimentological Research Group	online
2019	Exploring Palaeoenvironments, the Oceans, Climate, and Humans	London, UK
2019	DTP Conference	online
2019	British Sedimentological Research Group	London, UK
2019	British Society for Geomorphology	Sheffield
2018	International Sedimentological Congress	Quebec, Canada
2018	European Geosciences Union	Vienna, Austria
2018	DTP Conference	London, UK
2018	Centre for Quaternary Research	London, UK
2018	British Sedimentological Research Group	Edinburgh, UK
2016	British Sedimentological Research Group	Cambridge, UK
2016	Death Valley Visitor Centre	California, USA

PUBLICATIONS

Published Articles
Chen, X., Kuang, H., Liu, Y., Wang, Y., Yang, Z., Vandyk, T.M. , Le Heron, D.P., Wang, S., Geng, Y., Bai, H., Peng, N., Xia, X., 2020. Subglacial bedforms and landscapes formed by an ice sheet of Ediacaran-Cambrian age in west Henan, North China. <i>Precambrian Research</i> 344, 105727. https://doi.org/10.1016/j.precamres.2020.105727
Li, M., Vandyk, T.M. , Wu, G., Liu, W., Le Heron, D.P., Xiao, Y., 2020. A window into the Great Unconformity: Insights from geochemistry and geochronology of Ediacaran glaciogenic rocks in the North China Craton. <i>Journal of Asian Earth Sciences</i> 194, 104327. https://doi.org/10.1016/j.jseas.2020.104327
Le Heron, D.P., Vandyk, T.M. , Kuang, H., Liu, Y., Chen, X., Wang, Y., Yang, Z., Scharfenberg, L., Davies, B., Shields, G., 2019. Bird's-eye view of an Ediacaran subglacial landscape. <i>GEOLOGY</i> 47, 705–709. https://doi.org/10.1130/G46285.1



Le Heron, D.P., **Vandyk, T.M.**, 2019. A slippery slope for Cryogenian diamictites? *The Depositional Record* 5, 306–321. <https://doi.org/10.1002/dep2.67>

Tofaif, S., **Vandyk, T.M.**, Le Heron, D.P., Melvin, J., 2019. Glaciers, flows, and fans: Origins of a Neoproterozoic diamictite in the Saratoga Hills, Death Valley, California. *Sedimentary Geology*. <https://doi.org/10.1016/j.sedgeo.2019.03.003>

Vandyk, T.M., Wu, G., Davies, B.J., Xiao, Y., Li, M., Shields, G.A., Le Heron, D.P., 2019. Temperate glaciation on a Snowball Earth: Glaciological and palaeogeographic insights from the Cryogenian Yuermeinak Formation of NW China. *Precambrian Research* 331, 105362. <https://doi.org/10.1016/j.precamres.2019.105362>

Xiao, Y., Wu, G., **Vandyk, T.M.**, You, L., 2019. Geochronological and geochemical constraints on Late Cryogenian to Early Ediacaran magmatic rocks on the northern Tarim Craton: implications for tectonic setting and affinity with Gondwana. *International Geology Review* 1–18. <https://doi.org/10.1080/00206814.2019.1581847>

Le Heron, D.P., **Vandyk, T.M.**, Wu, G., Li, M., 2018. New perspectives on the Luoquan Glaciation (Ediacaran-Cambrian) of North China. *The Depositional Record* 4, 274–292. <https://doi.org/10.1002/dep2.46>

Le Heron, D.P., Busfield, M.E., Ali, D.O., **Vandyk, T.**, Tofaif, S., 2018. A tale of two rift shoulders, and two ice masses: the Cryogenian glaciated margin of Death Valley, California. *Geological Society of London, Special Publication* 475. <https://doi.org/10.1144/SP475.11>

Vandyk, T.M., Le Heron, D.P., Chew, D.M., Amato, J.M., Thirlwall, M., Dehler, C.M., Hennig, J., Castonguay, S.R., Knott, T., Tofaif, S., Ali, D.O., Manning, C.J., Busfield, M.E., Doepke, D., Grassineau, N., 2018. Precambrian olistoliths masquerading as sills from Death Valley, California. *Journal of the Geological Society* 175, 377–395. <https://doi.org/10.1144/jgs2017-002>

Wu, G., Yuan, Y., Huang, S., **Vandyk, T.M.**, Xiao, Y., Cai, Q., Luo, B., 2018. The Dihedral Angle and Intersection Processes of a Conjugate Strike-Slip Fault System in the Tarim Basin, NW China. *Acta Geologica Sinica (English Edition)* 92, 74–88. <https://doi.org/10.1111/1755-6724.13495>

Le Heron, D.P., Busfield, M.E., Ali, D.O., Al Tofaif, S., **Vandyk, T.M.**, 2017. The Cryogenian record in the southern Kingston Range, California: The thickest Death Valley succession in the hunt for a GSSP. *Precambrian Research*. <https://doi.org/10.1016/j.precamres.2017.07.017>

Le Heron, D.P., Tofaif, S., **Vandyk, T.**, Ali, D.O., 2017. A diamictite dichotomy: Glacial conveyor belts and Olistostromes in the Neoproterozoic of Death Valley. *GEOLOGY, Geological Society of America* 45, 31–34. <https://doi.org/10.1130/G38460.1>

Articles in reviews

Vandyk, T.M., Davies, B.D., Shields, G.A., Candy, I., Le Heron, D.P. Reassessing classic evidence for warm-based Cryogenian ice on the western Laurentian margin: the “striated pavement” of the Mineral Fork Formation, USA. In review with *Precambrian Research*. Available on request.

Congress proceedings

Bernsteiner, H. et al. including **Vandyk, T.M.**, 2020. Machine Learning for Classification of an Eroding Scarp Surface Using Terrestrial Photogrammetry with NIR And RGB Imagery, in: *ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences*. Presented at the XXIV ISPRS Congress, Commission III (Volume V-3-2020) - 2020 edition, Copernicus GmbH, pp. 431–437. <https://doi.org/10.5194/isprs-annals-V-3-2020-431-2020>



OTHER INFORMATION

Experience working with photogrammetric point clouds. See above: Bernsteiner *et al.* 2020; Le Heron *et al.* 2019 and Vandyk *et al.* in review. Experience working with turidites. See projects section.

Personal profile: [https://pure.royalholloway.ac.uk/portal/en/persons/thomas-vandyk\(e30e8b84-e0f4-4997-883d-7d1768e03f08\)/publications.html](https://pure.royalholloway.ac.uk/portal/en/persons/thomas-vandyk(e30e8b84-e0f4-4997-883d-7d1768e03f08)/publications.html)

ORCID: <https://orcid.org/0000-0002-7732-9977>

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

Place and date: Odiham, United Kingdom, 12th May 2021

SIGNATURE