

## Nathan Fox: Curriculum Vitae

### Education

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- 2017 - PhD in Environmental Science  
University of Southampton, Southampton, UK  
Main Advisor: Dr. Katherine E. Parks  
Thesis: Harnessing social media datasets to understand the role of geodiversity in cultural ecosystem services
- 2013 - 2017 Master of Environmental Science (MEnvSci) **First Class Honours**  
University of Southampton, Southampton, UK  
Main Advisor: Dr. Katherine E. Parks  
Dissertation: The viability of champagne production under a changing climate

### Peer-Reviewed Journal Publications

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- Fox, N.**, August, T., Mancini, F., Parks, K.E., Eigenbrod, F., Bullock, J.M., Sutter, L. and Graham, L.J., 2020. "photosearcher" package in R: An accessible and reproducible method for harvesting large datasets from Flickr. *SoftwareX*, 12, p.100624.
- Fox, N.**, Graham, L.J., Eigenbrod, F., Bullock, J.M., Parks, K.E., 2020. Incorporating geodiversity in ecosystem service decisions. *Ecosystems and People*, 16(1), pp.151-159

### Publications in review

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- Fox, N.**, Graham, L.J., Eigenbrod, F., Bullock, J.M., Parks, K.E. Reddit: A novel data source for cultural ecosystem service studies. Submitted to *Ecosystem Services*
- Fox, N.**, Graham, L.J., Eigenbrod, F., Bullock, J.M., Parks, K.E. Enriching social media data allows a more robust representation of cultural ecosystem services. Submitted to *Ecosystem Services*

### Software and data

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- Fox, N.**, August, T., Mancini, F., Sutter, L., Graham, L.J. "photosearcher" package in R.  
<https://github.com/ropensci/photosearcher>
- August, T.A., Affouard, A., Bystriakova, N., **Fox, N.**, Marlowe, C., Millard, J.W., ... Bonnet, P. (2019). AI validated plant observations from social media: Flickr images from central London 2011-2019 (Version 1.1) [Data set]. Zenodo. <http://doi.org/10.5281/zenodo.3514685>

### Grants and Awards

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- 2020 Google Cloud Platform, research credits program: \$1,000
- 2017 Deans award for best performance in year group, University of Southampton, Southampton, UK: £100
- 2017 The Sustainable Procurement prize for Top Master of Environmental Sciences, University of Southampton, Southampton, UK: £100

### Contributed Oral Presentation

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- "photosearcher" package in R: An accessible and reproducible method for harvesting large datasets from Flickr. A Community on Ecosystem Services Webinar Series, December 2020
- "photosearcher" package in R: An accessible and reproducible method for harvesting large datasets from Flickr. Ecological Society of America Annual Meeting, August 2020
- "photosearcher" package for R: reproducible software for cultural ecosystem service assessments. British Ecological Society Annual Meeting, December 2020
- "photosearcher" package for R: reproducible software for cultural ecosystem service assessments. Ecosystem Service Partnership World Conference, October 2019

### Selected Poster Presentations

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Incorporating geodiversity in ecosystem service frameworks. British Ecological Society Macroecology Conference, July 2018  
The role of geodiversity in supporting ecosystem services, Wessex Doctoral Training Network, March 2018

### Teaching Experience

#### Lecturer

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2019 - 2020      ENVS1005-Quantitative Methods, University of Southampton, Southampton, UK

#### Teaching assistant

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2017 -            ENVS6033-GIS for Engineers, University of Southampton, Southampton, UK

2017 -            ENVS2008-GIS for Environmental Scientists, University of Southampton, Southampton, UK

2017 -            ENVS6036-Advanced GIS and Spatial Analysis, University of Southampton, Southampton, UK

2017 -            ENVS1006-Environmental Science: Research and Applications, University of Southampton, Southampton, UK

2017 -            ENVS1007-Environmental Field Techniques and Applications, University of Southampton, Southampton, UK

### Students Mentored

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2020 -            Ella Milan - BSc Environmental Science, University of Southampton, Southampton, UK.

Dissertation: Using social media data from Flickr to assess ecosystem services in UK National Parks.

2018 - 2019      Ellysia Lewin - MSc Biodiversity and Conservation, University of Southampton, Southampton, UK.

Dissertation: Exploring the possibility of using Flickr data for species distribution modelling in Africa

2018 - 2019      Tom Williams - MSc Environmental Science, University of Southampton, Southampton, UK.

Dissertation: An analysis of the use of Flickr to gather information on tourism within designate land areas in Wales, UK

2017 - 2018      Isobel Northridge - BSc Environmental Science, University of Southampton, Southampton, UK.

Dissertation: An Assessment of Public Preference for Tree Density in Public Areas of Southampton

### Reviewer

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*People and Nature, Cultural Heritage, Resources Policy*

### Outreach

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Facilitator at the British Ecological Society Hackathon 2019

Volunteer mapping for the Missing Maps project

Teaching of GIS to school aged children at Barton Peveril Sixth Form College, Southampton, UK

### Skills

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Proficient in R, ArcPro, OpenStreetMap, Terragen 4, SPSS.

Currently undertaking courses in Unity, C# and Java

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