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# **Nathaniel Robinson**

**3**: 406-207-2405

Education	<b>PhD in Forestry and Conservation Sciences</b> W.A. Franke College of Forestry and Conservation University of Montana, Missoula, MT	December 2017
	MSc in Environmental Studies University of Montana, Missoula, MT	May 2009
	<b>BSc in Environmental Science</b> Wheaton College, Wheaton, IL	December 2004
Work Experience	Research Scientist Numerical Terradynamic Simulation Group University of Montana, Missoula, MT	January 2018 - present
	Geospatial Research Consultant Independent Evaluation Office Global Environment Facility Washington DC	April 2018 - Present
	<b>Geospatial Research Consultant</b> The Nature Conservancy Africa Program	2016 - Present
	<b>Geospatial Research Consultant</b> Panthera New York, NY	2015 - Present
	<b>Geospatial Research Consultant</b> International Food Policy Research Institute Washington DC	2014 - 2015
	Executive Director The Maa Trust Maasai Mara, Kenya	2012 - 2013
	Project Manager Encounter Mara Maasai Mara, Kenya	2011
	<b>Project Manager</b> Africa Exchange	2009 - 2010

Nairobi, Kenya

Research Assistant
Univeristy of Montana
Missoula, MT

Environmental Scientist

Malewa Trust Gilgil, Kenya

Fiel Researcher 2003 - 2004

2007 - 2008

2005 - 2006

African Wildlife Foundation Lake Manyara, Tanzania

### **Publications**

0/05/0010

#### **Published**

- 11. Campos-Taberner, M., A. Moreno, F.J. Garcia-Haro, G. Camps-Valls, N. Robinson, J. Kattge, S.W. Running. 2018. Global estimation of biophysical variables from Google Earth Engine Platform. *Remote Sensing* doi:10.3390/rs10081167
- 10. Robinson, N., B.W. Allred, W.K. Smith, M.O. Jones, A. Moreno, T.A. Erickson, D.E. Naugle, and S.W. Running. 2018. Landsat 30 m and MODIS 250 m derived terrestrial primary production for the conterminous United States. *Remote Sensing in Ecology and Conservation*. doi:10.1002/rse2.74
- Moreno, A., G. Camps-Valls, J. Kattge, N. Robinson, M. Reichstein, P. Bodegom, K. Kramer, J.H.C. Cornellissen, P. Reich, M. Bahn, U Niinemetsh, J. Penuelas, J. Craine, B.E.L. Cerabolini, V. Minden, D.C. Laughlin, L. Sack, B.W. Allred, C. Baraloto, C. Byun, N.A. Soudzilovskaia, and S.W. Running. 2018. Global maps of plant traits using remote sensing and climate data. Remote Sensing of Environment.
- Parks, S.A., L.M. Holsinger, M.A. Voss, R. Loehman, N. Robinson. 2018. Mean composite fire severity metrics computed with Google Earth Engine offer improved accuracy and expanded mapping potential. *Remote Sensing*. doi:10.3390/rs10060879
- 7. Jedrzejewski, W., H.S. Robinson, M. Abarca, K.A. Zeller, G. Velasquez. E. Paemelaere, J.F. Goldberg, E. Payan, R. Hoogesteijn, E.O. Boede, K. Schmidt, M. Lampo, A.L. Viloria, R. Carreno, N. Robinson, P.M. Lukacs, J.J. Nowak, R. Salom-Perez. F. Castanada, V. Boron, and H. Quigley. 2018. Estimating large carnivore populations at global scale based on spatial predictors of density and distribution—application to the jaguar (*Panthera onca*). *PlosOne*. doi:10.1371/journal.pone.0194719
- 6. Jones. M.O., S.W. Running, J.S. Kimball, **N. Robinson**, and B.W. Allred. 2018. Terrestrial primary productivity indicators for inclusion in the National

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- Robinson, N., B.W. Allred, M.O. Jones, A. Moreno, J.S. Kimball, D.E. Naugle, T.A. Erickson, and A.D. Richardson. 2017. A dynamic Landsat derived normalized difference vegetation index (NDVI) for the conterminous United States. *Remote Sensing* 9:83. doi:10.3390/rs9080863
- 4. Petracca, L.S., J.L. Frair, J.B. Cohen, A.P. Calderon, J. Carazo-Salazar, F. Castaneda, D. Corrales-Gutierrez, R.J. Fosters, B. Harmsen, S. Hernandez-Potosme, L. Herrera, M. Olmos, S. Pereira, H.S. Robinson, N. Robinson, R. Salom-Perez, Y. Urbina, K.A. Zeller, and H. Quigly. 2017. Robust inference on large-scale species habitat use with interview data: The status of jaguars outside protected areas in Central America. *Journal of Applied Ecology* 00:1–12. doi: 10.1111/1365-2664.12972
- 3. Rich L.N., C.L. Davis, Z.J. Farris, D.A.W. Miller, J.M. Tucker, S. Hamel, M.S. Farhadina, R. Steenweg, M.S.D. Bitetti, K. Thapa, M.D. Kane, S. Sunarto, N. Robinson, A. Paviolo, P. Cruz, Q. Martins, N. Gholikhani, A. Taktehrani, J. Whittington, F.A. Widodo, N.G. Yoccoz, C. Wultsch, B.J. Harmsen, and M.J. Kelley. 2017. Assessing global patterns in mammalian carnivore occupancy and richness by integrating local camera trap surveys. *Global Ecology and Biogeography* 26:8. doi:10.11/geb.12600
- 2. Page, L.K., S.D. Gehrt, and **N. Robinson**. 2008. Land-use effects on prevalence of raccoon roundworm (Baylisascaris procyonis). *Journal of Wildlife Diseases* 44:3. doi:10.7589/0090-3558-44.3.594
- Page, L.K., S.D. Gehrt, K.K. Titcombe, and N. Robinson. 2005. Measuring prevalence of raccoon roundworm (Baylisascaris procyonis): a comparison of common techniques. Wildlife Society Bulletin 33:4. doi: 10.2193/0091-7648(2005)33[1406:MPORRB]2.0.CO;2

#### In Review

1. **Robinson, N.**, B.W. Allred, M.O. Jones, D.E. Naugle. In Review. Patterns of rangeland productivity and land ownership: implications for conservation and management. *Ecological Applications*.

### In Preparation

1. Leisher, C., **N. Robinson**, M. Brown, D. Kujirakwinja, S. Maxwell, M.C. Schmitz, M. Wieland, and D. Wilkie. In Review. Prioritizing the direct threats to biodiversity in Sub-Saharan Africa.

### Reports

2. Hess. S., C. Leisher, E. Kinsey, **N. Robinson** and D. Kelly. 2016. Summary of the baseline and ecological assessments for the Endangered Ecosystems

of Nightle and Tananasia Dugia et af the Nigh

of Northern Tanzania Project of the Northern Tanzania Rangelands Initiative. *USAID Project Report*.

1. **Robinson, N.**, C.M. Cox, and J. Koo. 2016. Harnessing net primary productivity data for monitoring sustainable development of agriculture. IFPRI Discussion Paper 01584.

### Presentations

### **Magical Web Scraping with rvest**

Invited Talk: Baltimore R Ladies Group (slides)

May 2018

Joint Preprocessing of Samples Improves Power in Differential Analysis for Mass Spectrometry-Based Metabolomics

Invited Talk: JHU Biophysics

December 2017

**Shiny Applications for Teaching and Dungeons and Dragons** 

Invited Talk: Baltimore UseR Group (slides)

September 2017

A Method for Joint Processing of Mass Spectrometry-Based Metabolomics Data for Improved Differential Analysis

Poster: ENAR, Washington D.C.

March 2017

### Software

**yamss**: Tools for the analysis of high-throughput metabolomics data. An R package released through the Bioconductor project.

https://www.bioconductor.org/packages/yamss

**mpra**: Tools for the analysis of data from massively parallel reporter assays. An R package released through the Bioconductor project.

https://www.bioconductor.org/packages/mpra

### Teaching

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## Johns Hopkins Bloomberg School of Public Health

Instructor

Statistical Thinking for Informed Decision Making (2 semesters)
 I developed this course as part of the Gordis Teaching Fellowship, a school-wide award that provides funds to design and teach an undergraduate class. A news article-motivated introduction to major biostatistical areas, including causal inference, survey sampling, and survival analysis.

#### Teaching Assistant

- Public Health Biostatistics (3 semesters)
- Introduction to R for Public Health Researchers (1 course)
- Statistical Methods in Public Health (3 quarters)
- Data Analysis Workshop (2 courses)
- Statistics for Genomics (1 quarter)
- Statistics for Laboratory Scientists (2 quarters)

0/05/0010

• Summer Institute: Statistical Reasoning in Public Health (2 courses)

#### Tutor

- Statistical Methods in Public Health (2 quarters)
- Mentor for Center for Talented Youth Cogito Research Award Recipient (3 months)

### **Johns Hopkins University**

Teaching Assistant

• Introduction to Java (1 semester)

### **Awards**

### **Helen Abbey Award**

May 2017

Johns Hopkins Bloomberg School of Public Health Excellence in teaching (website)

### Service

- 2018: Referee BiOverlay
- 2018: Referee American Journal of Epidemiology
- 2017: Referee Observational Studies

http://127.0.0.1:4321/ev/