

ANDREW B. DAVIES

Department of Organismic and Evolutionary Biology, Harvard University

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EDUCATION

- 2014 **PhD** in Zoology, University of Pretoria, South Africa
2010 **MSc** in Entomology, University of Pretoria, South Africa
2007 **BSc Honours** (*cum laude*) in Zoology, University of Pretoria, South Africa.
2006 **BSc** (*cum laude*) in Environmental Science, University of Pretoria, South Africa.

ACADEMIC APPOINTMENTS

- 2019 – **Assistant Professor.** Department of Organismic and Evolutionary Biology,
Harvard University
2019 **Postdoctoral Researcher.** Center for Global Discovery and Conservation
Science, Arizona State University, USA. Mentor: Gregory P. Asner
2014 – 2018 **Postdoctoral Researcher.** Department of Global Ecology, Carnegie Institution
for Science, Stanford University, USA. Mentor: Gregory P. Asner

PUBLICATIONS

1. Voysey, MD, PJN de Bruyn & **AB Davies** (2023) Are hippos Africa's most influential megaherbivore? A review of ecosystem engineering by the semi-aquatic common hippopotamus. *Biological Reviews*, *in press*.
2. Wang, Z, J Zeng, H Ran, W Meng, S Zhou, **AB Davies** & C Liu (2023) Monitoring online ant trade reveals high biological invasion risk. *Biological Conservation*, *in press*.
3. Reiner, F, M Brandt, X Tong, S Skole, A Kariryaa, P Ciais, **AB Davies**, P Hiernaux, J Chave, M Mugabowindekwe, I Igel, S Oehmcke, F Gieseke, S Li, S Liu, S Saatchi, PB Boucher, J Singh, S Taugourdeau, M Dendoncker, X Song, O Mertz, C Tucker, & R Fensholt (2023) More than one quarter of Africa's tree cover is found outside areas previously classified as forest. *Nature Communications*, *in press*.
4. Boucher, PB, EG Hockridge, J Singh & **AB Davies** (2023) Flying high: Sampling savanna vegetation with UAV-lidar. *Methods in Ecology and Evolution* online early.
5. Coverdale, TC & **AB Davies** (2023) Unravelling the relationship between plant diversity and vegetation structural complexity: A review and theoretical framework. *Journal of Ecology* online early.
6. Hockridge, EG, J Singh, PB Boucher & **AB Davies** (2023) Resistance of termite mounds to variation in long-term fire regimes across semi-arid African savannas. *Journal of Animal Ecology* online early.
7. Strydom, T, IPJ Smit, N Govender, C Coetsee, J Singh, **AB Davies** & BW van Wilgen, (2023) High-intensity fires may have limited medium-term effectiveness for

- reversing woody plant encroachment in an African savanna. *Journal of Applied Ecology* 60, 661-672.
8. Schmitz, OJ, M Sylven, TB Atwood, ES Bakker, F Berzaghi, JF Brodie, JPGM Cromsigt, **AB Davies**, SJ Leroux, FJ Schepers, FA Smith, S Stark, J Svenning, A Tilker & H Ylänne (2023) Trophic rewilding can expand natural climate solutions. *Nature Climate Change* 13, 324-333.
 9. Zhou, Y, AC Staver & **AB Davies** (2023) Species-level termite methane production rates. *Ecology* 104, e3905.
 10. Zhou, Y, J Singh, JR Butnor, C Coetsee, PB Boucher, MF Case, EG Hockridge, **AB Davies** & AC Staver (2022) Limited increases in savanna carbon stocks over decades of fire suppression. *Nature*, 603, 445-449.
 11. **Davies, AB**, CJ Tambling, DG Marneweck, N Ranc, DJ Druce, JPGM Cromsigt, E le Roux & GP Asner (2021) Spatial heterogeneity facilitates carnivore coexistence. *Ecology* 102, e03319.
 12. **Davies, AB**, JPGM Cromsigt, CJ Tambling, E le Roux, N Vaughn, DJ Druce, DG Marneweck & GP Asner (2021) Environmental controls on African herbivore responses to landscapes of fear. *Oikos* 130, 171-186.
 13. **Davies, AB**, CL Parr & P Eggleton (2021) A global review of termite sampling methods. *Insectes Sociaux* 68, 3-14.
 14. Heckel, K, M Urban, J Bouffard, J Baade, PB Boucher, **AB Davies**, GH Hockridge, W Lück, J Ziemer, I Smit, B Jacobs, M Norris-Rogers, C Schnullius (2021) The first sub-meter resolution digital elevation model of the Kruger National Park, South Africa. *Koedoe* 63, a1679.
 15. Trisos, MO, CL Parr, **AB Davies**, M Leitner & EC February (2021) Mammalian herbivore movement into drought refugia has cascading effects on savanna insect communities. *Journal of Animal Ecology* 90, 1753-1763.
 16. **Davies, AB**, PG Brodrick, CL Parr & GP Asner (2020) Resistance of mound-building termites to anthropogenic land-use change. *Environmental Research Letters* 15, 094038.
 17. Leitner, M, **AB Davies**, MP Robertson, CL Parr & BJ van Rensburg (2020) Termite mounds create heterogeneity in invertebrate communities across a savanna rainfall gradient. *Biodiversity and Conservation* 29, 1427-1441.
 18. Barnardo, T, CJ Tambling, **AB Davies**, S Klein Snakenborg, GP Asner, E Le Roux, JPGM Cromsigt, DJ Druce & GIH Kerley (2020) High abundance of preferred prey does not lead to the predicted narrowing of lion diet breadth. *Mammal Research* 65:235–243.
 19. Evans, LJ, B Goossens, **AB Davies**, G Reynolds & GP Asner (2020) Natural and anthropogenic drivers of Bornean elephant movement strategies. *Global Ecology and Conservation* 22, e00906.

20. Brodrick, PG, **AB Davies** & GP Asner (2019) Uncovering ecological patterns with convolutional neural networks. *Trends in Ecology and Evolution* 34, 734-745.
21. **Davies, AB** & GP Asner (2019) Elephants limit aboveground carbon gains in African savannas. *Global Change Biology* 25, 1368-1382.
22. Lind, BM & **AB Davies** (2019) A checklist of the termites of Kruger National Park, South Africa. *Koedoe* 61, a1531.
23. **Davies, AB**, F Oram, M Ancrenaz & GP Asner (2019) Combining behavioural and LiDAR data to reveal relationships between canopy structure and orangutan nest site selection in disturbed forests. *Biological Conservation* 232, 97-107.
24. Schmitz, OJ, CC Wilmers, SJ Leroux, CE Doughty, TB Atwood, M Galetti, **AB Davies** & SJ Goetz (2018) Animals and the zoogeochemistry of the carbon cycle. *Science* 362, eaar3213.
25. Jackson, CR, EH Masenga, EE Mjingo, **AB Davies**, F Fossøy, RD Fyumagwa, E Røskaft & RF May (2019) No evidence of handling-induced mortality in Serengeti's African wild dog population. *Ecology and Evolution* 9, 1110-1118.
26. Muvengwi, J, F Parrini, ETF Witkowski & **AB Davies** (2019) Are termite mounds always grazing hotspots? Grazing variability with mound size, season and geology in an African savanna. *Ecosystems* 22, 125-136.
27. Leitner, M, **AB Davies**, CL Parr, P Eggleton & MP Robertson (2018) Woody encroachment slows decomposition and termite activity in an African savanna. *Global Change Biology* 24, 2597-2606.
28. **Davies, AB**, A Gaylard & GP Asner (2018) Megafaunal effects on vegetation structure throughout a densely wooded African landscape. *Ecological Applications* 28, 398-408.
29. Muvengwi, J, **AB Davies**, F Parrini & ETF Witkowski (2018) Geology drives the spatial patterning and structure of termite mounds in an African savanna. *Ecosphere* 9, e02148.
30. Muvengwi, J, **AB Davies**, F Parrini & ETF Witkowski (2018) Termite diversity is higher in landscapes with lower productivity. *Insectes Sociaux* 65, 25-35.
31. **Davies, AB**, M Ancrenaz, F Oram & GP Asner (2017) Canopy structure drives orangutan habitat use in disturbed Bornean forests. *Proceedings of the National Academy of Sciences, USA* 114, 8307-8312.
32. Evans, LJ, **AB Davies**, B Goossens & GP Asner (2017) Riparian vegetation structure and the hunting behavior of adult estuarine crocodiles. *PLoS One* 12, e0184804.

33. Muvengwi, J, ETF Witkowski, **AB Davies** & F Parrini (2017) Termite mounds vary in their importance as sources of vegetation heterogeneity across savanna landscapes. *Journal of Vegetation Science* 28, 1008-1017.
34. Asefa, A, **AB Davies**, AE McKechnie, AA Kinahan & BJ van Rensburg (2017) Effects of anthropogenic disturbance on bird diversity in Ethiopian montane forests. *The Condor* 119, 416-430.
35. **Davies, AB**, CA Baldeck & GP Asner (2017) Termites and trees. Response to comment on ‘Termite mounds alter the spatial distribution of African savanna tree species’. *Journal of Biogeography* 44, 952-955.
36. D Del Giudice & **AB Davies** (2017) Communication: A few words can make a big impact. *Nature* 541, 30.
37. **Davies, AB**, DG Marneweck, DJ Druce & GP Asner (2016) Den site selection, pack composition, and reproductive success in endangered African wild dogs. *Behavioral Ecology* 27, 1869-1879.
38. Lagendijk, DDG, **AB Davies**, P Eggleton & R Slotow (2016) No evidence for an elephant-termite feedback loop in Sand Forest, South Africa. *Biological Conservation* 203, 125-133.
39. **Davies, AB**, CJ Tambling, GIH Kerley & GP Asner (2016) Limited spatial response to predation risk by African herbivores following predator reintroduction. *Ecology and Evolution* 6, 5728-5748.
40. Marvin, DC, LP Koh, AJ Lynam, S Wich, **AB Davies**, R Krishnamurthy, E Stokes, R Starkey & GP Asner (2016) Integrating technologies for scalable ecology and conservation. *Global Ecology and Conservation* 7, 262-275.
41. **Davies, AB**, BJ van Rensburg, MP Robertson, SR Levick, GP Asner & CL Parr (2016) Seasonal variation in the dominant herbivore consumer in an African savanna. *Ecology* 97, 1618-1624.
42. Parr, CL, P Eggleton, **AB Davies**, TA Evans & S Holdsworth (2016) Suppression of savanna ants alters invertebrate composition and influences key ecosystem processes. *Ecology* 97, 1611-1617.
43. Janion-Scheepers, C, J Measey, B Braschler, SL Chown, L Coetzee, JF Colville, J Dames, **AB Davies**, *et al.* (2016) Soil biota in a megadiverse country: current knowledge and future research directions in South Africa. *Pedobiologia* 59, 129-174.
44. **Davies, AB**, CJ Tambling, GIH Kerley & GP Asner (2016) Effects of vegetation structure on the location of lion kill sites in African thicket. *PLoS ONE* 11, e0149098.
45. **Davies, AB**, CA Baldeck & GP Asner (2016) Termite mounds alter the spatial distribution of African savanna trees. *Journal of Biogeography* 43, 301-313.

46. **Davies, AB**, SR Levick, MP Robertson, BJ van Rensburg, GP Asner & CL Parr (2016) Termite mounds differ in their importance for herbivores across savanna types, seasons and spatial scales. *Oikos* 125, 726-734.
47. Asner, GP, N Owen-Smith, SR Loarie, **AB Davies**, E Le Roux & SR Levick (2015) Habitat differences do not explain population declines of sable antelope in an African savanna. *Journal of Zoology* 297, 225-234.
48. Bokhout, B, L Verburgt & **AB Davies** (2015) *Afrotyphlops schlegelii*: Termite mound access behaviour. *African Herp News* 62, 16-22.
49. **Davies, AB**, P Eggleton, BJ van Rensburg & CL Parr (2015) Seasonal activity patterns of African savanna termites vary across a rainfall gradient. *Insectes Sociaux* 62, 157-165.
50. **Davies, AB** & GP Asner (2014) Advances in animal ecology from 3D-LiDAR ecosystem mapping. *Trends in Ecology and Evolution* 29, 681-691.
51. **Davies, AB**, MP Robertson, SR Levick, GP Asner, BJ van Rensburg & CL Parr (2014) Variable effects of termite mounds on African savanna grass communities across a rainfall gradient. *Journal of Vegetation Science* 25, 1405-1416.
52. **Davies, AB**, SR Levick, GP Asner, MP Robertson, BJ van Rensburg & CL Parr (2014) Spatial variability and abiotic determinants of termite mounds throughout a savanna catchment. *Ecography* 37, 852-862.
53. **Davies, AB**, BJ van Rensburg, P Eggleton, & CL Parr (2013) Interactive effects of fire, rainfall and litter quality on decomposition in savannas: frequent fire leads to contrasting effects. *Ecosystems* 16, 866-880.
54. **Davies, AB**, P Eggleton, BJ van Rensburg & CL Parr (2013) Assessing the relative efficiency of termite sampling methods along a rainfall gradient in African savannas. *Biotropica* 45, 474-479.
55. **Davies, AB**, P Eggleton, BJ van Rensburg & CL Parr (2012) The pyrodiversity-biodiversity hypothesis: a test with savanna termite assemblages. *Journal of Applied Ecology* 49, 422-430.
56. de Bruyn, PJN & **AB Davies** (2012) Australia: no price on cutting fire risk. *Nature* 482, 471-471.
57. **Davies, AB**, CL Parr & BJ van Rensburg (2010) Termites and fire in Africa: current understanding and future research directions for improved savanna conservation. *Austral Ecology* 35, 482-486.

RESEARCH FUNDING AND SCHOLARSHIPS

2023	Karingani Holdings – \$80,000
2023	Motsepe Presidential Research Accelerator Fund for Africa – \$118,500

2022	Harvard-China Fund – \$16,419
2022	Kirkland Foundation – \$30,000
2021	William F. Milton Fund – \$49,995
2021	Star-Friedman Challenge – \$78,155
2021	William F. Milton Fund – \$95,228
2021	Karingani Holdings – \$75,000
2012	University of Pretoria Study Abroad Program – ZAR25,000
2012	Travel Grant, Student Conference in Conservation Science – \$500
2011 – 2012	South African National Parks research grant – ZAR70,000
2011	Travel Grant, Association for Tropical Biology and Conservation – \$500
2010 – 2013	University of Pretoria PhD Scholarship
2010 – 2013	DST/NRF Centre of Excellence for Invasion Biology PhD Scholarship
2009	University of Pretoria Study Abroad Program – ZAR12,000
2008 – 2009	University of Pretoria Masters Scholarship
2007	University of Pretoria Honours Scholarship
2004 – 2006	South African Institute of Race Relations Undergraduate Scholarship

HONORS AND AWARDS

2012	Best PhD presentation, Zoology and Entomology Dept, University of Pretoria
2009	Best MSc presentation, Zoology and Entomology Dept, University of Pretoria
2007	Best Honours presentation, Zoology and Entomology Dept, University of Pretoria
2007	Zoological Society of Southern Africa Award for Best Zoology Honours Student
2006, '07, '13	Honorary Academic Colours, University of Pretoria
2004	Dean's Certificate of Merit

TEACHING

2021 –	Instructor, OEB 65, Conservation Biology, Harvard University, USA
2020 –	Instructor, OEB 55, Ecology: Populations, Communities, and Ecosystems, Harvard University, USA
2017, 2019	Instructor, International Termite Course. Forestry Research Institute of Ghana, Kumasi, Ghana & Wits Rural Facility, Hoedspruit, South Africa
2013	Instructor, ZEN 783, Climate Change and Biodiversity BSc Honours. University of Pretoria, South Africa
2008 – 2013	Instructor and Coordinator, African Foreign Studies Program, Dartmouth College, USA (foreign studies program to South Africa)
2010 – 2011	Instructor, Wildlife Management, Damelin College, Centurion, South Africa
2010 – 2011	Instructor, Mathematical Literacy, Damelin College, Centurion, South Africa
2010 – 2012	Instructor, Wildlife Safety, Enviro-Insight, Pretoria, South Africa

POSTDOCTORAL RESEARCHERS ADVISED

Zhengyang Wang 2022 –
 Tyler Coverdale 2021 –
 Jenia Singh 2020 –
 Peter Boucher 2020 –

GRADUATE STUDENTS ADVISED (* - CO-ADVISED)

Lucy Wilson 2022 –
 *Rhemie Toft 2022 –
 *Katherine Angier 2020 –
 Lucrecia Aguilar 2020 –
 Catherine Ressijac 2020 –
 Michael Voysey 2020 –
 Evan Hockridge 2019 –
 Nisa Marks 2020 – 2021 (MS, Harvard Extension School, Current: NH Government)
 Justice Muvengwi 2013 – 2016 (Current: Senior Lecturer, University of the Witwatersrand)
 Monica Leitner 2013 – 2015 (MSc, Current: University of Pretoria)
 Addisu Mitiku 2012 – 2013 (MSc, Current: Ethiopian Wildlife Conservation Authority)

UNDERGRADUATE SENIOR THESIS AND BSc HONOURS ADVISEES

Ayano Mukai 2022 (senior thesis, Harvard OEB)
 Mushtaq Ali 2021 (senior thesis, Harvard OEB)
 Chase Howard 2020 (senior capstone, Harvard ESPP)
 Liezl Wichmann 2014 (BSc Honours, University of Pretoria)
 Monica Leitner 2012 (BSc Honours, University of Pretoria)

INVITED SEMINARS AND RESEARCH TALKS

2023 Princeton University, Princeton, USA (graduate student departmental seminar nominee)
 2022 Boston University, Boston, USA (departmental seminar)
 2022 Ecological Society of America, Montreal, Canada (invited symposium speaker)
 2021 Vrije Universiteit, Amsterdam, Netherlands (departmental seminar)
 2021 Cornell University, Ithaca, USA (departmental seminar)
 2021 Brown University, Providence, USA (departmental seminar)
 2020 Yale University, New Haven, USA (departmental seminar)
 2020 African Parks, Johannesburg, South Africa (special seminar)
 2019 University of Fort Hare, Alice, South Africa (departmental seminar)
 2018 Southern Illinois University, Carbondale, USA (graduate student symposium keynote speaker)
 2018 Harvard University, Cambridge, USA (special seminar)
 2017 Princeton University, Princeton, USA (special seminar)

- 2017 Ecological Society of America, Portland, USA (invited symposium speaker)
2017 University of Pretoria, Pretoria, South Africa (departmental seminar)
2016 Danau Girang Field Centre, Sabah, Malaysia (research seminar)
2015 Nelson Mandela University, Port Elizabeth, South Africa (departmental seminar)
2013 Statistics with R Workshop, University of Pretoria, South Africa (workshop)
2011 Carnegie Institution for Science, Stanford, USA (departmental seminar)
2009 Burning for Biodiversity Workshop, Skukuza, South Africa (workshop)

SELECTED CONFERENCE PRESENTATIONS

Davies, AB, Herbivores alter the thermal landscape of African savannas. Savanna Science Network Meeting, Skukuza, Kruger National Park, South Africa, 5 – 10 March 2023

Davies, AB, Combining high-resolution remote sensing and animal tracking data to yield new insights into animal landscape use in a changing world. Ecological Society of America, Montreal, Canada, 14-19 August 2022 (invited)

Davies, AB, Brodrick PG, Parr, CL, Asner, GP. Resistance of mound-building termites to anthropogenic land use change. Savanna Science Network Meeting, Skukuza, Kruger National Park, South Africa, 1 – 5 March 2020

Davies, AB, Asner, GP. Elephants limit aboveground carbon gains in African savannas. Savanna Science Network Meeting, Skukuza, Kruger National Park, South Africa, 3 – 7 March 2019

Davies, AB, Asner, GP. Applying advanced remote sensing tools for animal conservation in an increasingly human-dominated world. Ecological Society of America, New Orleans, USA, 5 – 10 August 2018

Davies, AB, Asner, GP. Integrating field and remote sensing data for landscape-scale perspectives of animal impacts on carbon cycling. Ecological Society of America, Portland, USA, 6 – 11 August 2017 (invited)

Davies, AB, Gaylard, A, Asner, GP. Elephant effects on vegetation structure throughout the densely wooded Addo landscape. Savanna Science Network Meeting, Skukuza, Kruger National Park, South Africa, 12 – 16 March 2017

Davies, AB, Marneweck, D, Druce, DJ, Asner, GP. Den site selection, pack composition, and reproductive success in endangered African wild dogs. Savanna Science Network Meeting, Skukuza, Kruger National Park, South Africa, 13 – 17 March 2016

Davies, AB, Asner, GP. Advances in animal ecology from 3D ecosystem mapping with LiDAR. American Geophysical Union Fall Meeting, San Francisco, USA, 14 – 18 December 2015

Davies, AB, Tambling, CJ, Kerley, GIH, Asner, GP. Lion hunting success in relation to vegetation structural heterogeneity and climatic factors. Savanna Science Network Meeting, Skukuza, Kruger National Park, South Africa, 9 – 13 March 2015

Davies, AB, Levick, SR, Robertson, MP, van Rensburg, BJ, Asner, GP, Parr, CL Spatial and temporal variation in the use of termite mounds by African savanna herbivores. Savanna Science Network Meeting, Skukuza, Kruger National Park, South Africa, 2 – 6 March 2014

Davies, AB, Robertson, MP, Levick, SR, Asner, GP, van Rensburg, BJ, Parr, CL. Termite mounds: functional importance for savanna heterogeneity across a rainfall gradient. International Congress of Ecology, London, United Kingdom, 18 – 23 August 2013

Davies, AB, Levick, SR, Asner, GP, Robertson, MP, van Rensburg, BJ, Parr, CL. The functional importance of termite mounds for savanna heterogeneity across a rainfall gradient. Zoological Society of Southern Africa, Tshipise, South Africa, 14 – 17 July 2013

Davies, AB, Levick, SR, Asner, GP, Robertson, MP, van Rensburg, BJ, Parr, CL Termite mound influences on savanna grass communities. Savanna Science Network Meeting, Skukuza, Kruger National Park, South Africa, 3 – 8 March 2013

Davies, AB, Levick, SR, Asner, GP, Robertson, MP, van Rensburg, BJ, Parr, CL. Spatial characteristics of termite mounds. DST/NRF Centre of Excellence for Invasion Biology Annual Research Meeting, Stellenbosch, South Africa, 15 – 16 November 2012

Davies, AB, Eggleton, P, van Rensburg, BJ, Parr, CL. Termite responses to long-term burning regimes. Student Conference on Conservation Science, University of Cambridge, United Kingdom, 20 – 22 March 2012

Project and presentation received “highly commended” recognition

Davies, AB, Levick, SR, Asner, GP, van Rensburg, BJ, Parr, CL. Spatial characteristics of termite mounds. Savanna Science Network Meeting, Skukuza, Kruger National Park, South Africa, 4 – 9 March 2012

Davies, AB, van Rensburg, BJ, Bond, WJ, Parr, CL. Litter decomposition in savannas: variation along a rainfall gradient. Association for Tropical Biology and Conservation & Society for Conservation Biology, Africa Section Annual Meeting, Arusha, Tanzania, 12 – 16 June 2011

Davies, AB, Parr, CL, van Rensburg, BJ. The role of termites in litter decomposition: variation along a rainfall gradient. DST/NRF Centre of Excellence for Invasion Biology Annual Research Meeting, Stellenbosch, South Africa, 18 – 19 November 2010

Davies, AB, Parr, CL, van Rensburg, BJ. Fire ecology and termites in a southern African savanna. International Congress of Ecology, Brisbane, Australia, 16 – 21 August 2009

Davies, AB, Parr, CL, van Rensburg, BJ. Termites and fire in a southern African savanna. Savanna Science Network Meeting, Skukuza, Kruger National Park, South Africa, 19 – 24 April 2009

Awarded prize for the best student presentation

DEPARTMENTAL & UNIVERSITY SERVICE

2023 – Executive Committee of the Center for Research on Computation and Society

2021 – Undergraduate Committee
2019 – Environmental Science and Public Policy Board of Tutors
2019 – 2021 Graduate Admissions Committee

REVIEWING

Ad-hoc reviewer for: **Journals:** Acta Oecologia; African Journal of Ecology; African Zoology; Animal Biotelemetry; Applied Soil Ecology; Austral Ecology; Australian Journal of Entomology; Biotropica; Conservation Biology; Ecology; Ecology and Evolution; Ecology Letters; Ecosystems; Ecography; Insect Conservation and Diversity; Insectes Sociaux; Journal of Animal Ecology; Journal of Applied Ecology; Journal of Insect Conservation; Journal of Mammalogy; Journal of Vegetation Science; Landscape Ecology; Methods in Ecology and Evolution; Nature; Nature Sustainability; Oecologia; PLoS One; Remote Sensing; Remote Sensing of Environment; Sociobiology; Trends in Ecology and Evolution
Funding Organizations: Graduate Women in Science Fellowship; US National Science Foundation; Netherlands Organisation for Scientific Research