

Janet Nackoney, Ph.D.

Dr. Janet Nackoney is an AAAS Science and Technology Policy Fellow hosted at the USAID Land and Urban Office. She is also an Associate Research Professor at the Department of Geographical Sciences at the University of Maryland. She has almost 20 years of experience as a geographer applying GIS and remote sensing technologies to benefit ecological conservation, food security, and information development in Africa.

EDUCATION

Ph.D., Geographical Sciences, 2012

University of Maryland, College Park, Maryland

Determining Conservation Priorities and Participative Land-Use Planning Strategies in the Maringa-Lopori-Wamba Landscape, Democratic Republic of the Congo.

Advisor: Dr. Christopher Justice

GPA: 4.0

M.A., Geography, 2007

University of Maryland, College Park, Maryland

Modeling Resource Selection and Habitat Suitability of the African Forest Elephant in the Congo Basin, Central Africa.

Advisors: Dr. Christopher Justice and Dr. Stephen Blake (Adjunct)

GPA: 4.0

B.A., Geography, 2000

Indiana University, Bloomington, Indiana

GIS and Remote Sensing, Atmospheric Science. Minor in music (clarinet performance)

EMPLOYMENT

United States Agency for International Development (USAID) Land and Urban Office, Washington, DC.

American Association for the Advancement of Science (AAAS)
Science and Technology Policy Fellow

Sept 2019 – Present

Department of Geographical Sciences, University of Maryland, College Park, MD.

Associate Research Professor

2017 – Present

Assistant Research Professor

2012 – 2017

Faculty Research Assistant

2007 – 2012

Graduate Research Assistant

2006 – 2007

Resources for the Future (RFF), Washington, DC.

Consultant

2008 – 2009

World Resources Institute (WRI), Washington, DC.

Consultant

2006 – 2007

Associate

2003 – 2006

Research Analyst

2002 – 2003

The Weather Network, Mississauga, CANADA

Meteorological Forecasting Intern

Summer 2000

Institute of Ecology, University of Georgia, Athens, GA.

Research Coordinator (Remote Sensing)

2000 – 2002

Center for the Study of Institutions, Population, and Environmental Change (CIPEC),

Indiana University, Bloomington, IN.

Research Assistant

1999 – 2000

Smithsonian Conservation Biology Institute (formerly Smithsonian Conservation and Research Center), Front Royal, VA.

GIS and Biological Field Intern

1998 – 1998

FUNDED RESEARCH

Principal Investigator

- Central Africa Forest Ecosystems Conservation (CAFEC) in the Maringa-Lopori-Wamba Landscape, funded by USAID (sub-award from African Wildlife Foundation). 2013 – 2018.
- A UAV-based system for anti-poaching surveillance and reconnaissance in Bili Mbomu Target Zone, Democratic Republic of the Congo, funded by University of Maryland Dean's Research Initiative. 2016 – 2017.
- Land use planning in the TRIDOM Landscape, Republic of Congo, funded by World Bank Group (sub-award from World Resources Institute). 2014 – 2015.
- Conservation prioritization and land-use planning in the Maringa-Lopori-Wamba Landscape, Democratic Republic of the Congo, funded by USAID (sub-award from African Wildlife Foundation). 2006 – 2012.

Co-Investigator

- A cobra in the forest? Quantifying the impact of perverse incentives from Indonesia's deforestation moratorium, 2011 to 2016 (PI: M. Hansen), NASA Land Cover Land Use Change (LCLUC) Program. 2019 – 2020.
- Monitoring and forecasting chimpanzee habitat health in Africa to inform conservation actions, strategies & measure success (PI: M. Hansen), NASA Applied Sciences Program (sub-award from Jane Goodall Institute). 2013 – 2018.
- Spurring a Transformation for Agriculture through Remote Sensing (STARS) (PI: J. Dempewolf & I. Becker-Reshef), Bill and Melinda Gates Foundation and University of Twente. 2014 – 2015.

Researcher

- CARPE: Tropical Forest Cover and Forest Cover Change Analysis (PI: M. Hansen), USAID and NASA. 2006 – 2019.

TEACHING

University of Maryland Department of Geographical Sciences and Nanjing-Normal University (College Park, MD, USA and Nanjing, China). Instructor. Taught a 3-credit intensive 10-day course (45 hours) at Nanjing-Normal University, China, titled "Spatial Analysis" as part of UMD's Professional Masters in GIS program being replicated at Nanjing-Normal University. *October 15-26, 2018.*

Primate Research Institute, Kyoto University. Visiting Distinguished Associate Professor. Taught a 2-day intensive workshop titled “Introduction to Basic GIS Analysis using QGIS for Environmental Conservation: Case study in Bili-Mbomu, Democratic Republic of the Congo (DRC).” *March 29-30, 2018.*

Institute for Liberal Arts and Sciences (ILAS), Kyoto University, Japan. Visiting Distinguished Associate Professor. Taught a 2-credit intensive 8-day course (30 hours) at Kyoto University titled “Geographic Information Systems: Introduction and Spatial Analysis.” *February 22 – March 02, 2018.*

University of Maryland Department of Geographical Sciences and Nanjing-Normal University (College Park, MD, USA and Nanjing, China). Instructor. Taught a 3-credit intensive 10-day course (45 hours) at Nanjing-Normal University, China, titled “Spatial Analysis” as part of UMD’s Professional Masters in GIS program being replicated at Nanjing-Normal University. *October 16-27, 2017.*

Japan Society for the Promotion of Science (JSPS) Asia-Africa Science Platform Program (Kinshasa, DRC). Instructor for “Introduction to QGIS” and “Advanced analysis with QGIS” training workshop offered to participants of the African Primatological Consortium for Conservation (APCC). *August 22-27, 2017.*

Japan Society for the Promotion of Science (JSPS) Asia-Africa Science Platform Program, Kyoto University Primate Research Institute (Inuyama, Japan). Instructor. Co-developed and co-taught a series of seminars offered to African primatologists that focused on mobile field data collection, GIS analysis, and operation of UAVs. *November-December 2016.*

Japan Society for the Promotion of Science (JSPS) Asia-Africa Science Platform Program, Kyoto University Primate Research Institute (Inuyama, Japan). Instructor. Developed and taught three seminars offered to African primatologists that focused on GPS field data collection and GIS analysis. *November 2012.*

Pacific Marine Analysis & Research Association (Washington, DC). Invited lecturer, Marxan for Managers Training. Washington, DC. *October 3, 2012.*

Pacific Marine Analysis & Research Association (Washington, DC). Invited lecturer, Introduction to Marxan Training. *October 2, 2012.*

George Mason University Study Abroad Program (Fairfax, VA, USA). Invited instructor. Taught a seminar in GPS field data collection for an undergraduate field study course for the Study Abroad program. *April 2012.*

International collaborative study on the primate basis of human evolution, Kyoto University Primate Research Institute, (Inuyama, Japan). Research Fellow and Lecturer. Taught five seminars in GIS and GPS data collection. *October - November 2011.*

International Primatological Society Pre-Congress Workshop (Kyoto, Japan). Invited instructor. Wrote curriculum and taught a 2-day class titled “Data Collection and Analysis using GPS and GIS for Conservation Practitioners” for students from the Exchange Program for East Asian Young Researchers (ASIAN-HOPE). *September 2010.*

University of Maryland Department of Geography (College Park, MD, USA). Teaching Assistant. GEOG373: Introduction to Geographic Information Systems. *July – August 2010.*

Nackoney, J., M. Demol, J. Dupain, A. Kehbila, P. Potapov, S. Turubanova, M.C. Hansen, H.A. Akpona, J.C. Kalemba, C. Facheux, P. Boeckx, J. Six, B. Vanlauwe (in prep). Coupled land-use planning and agricultural intervention yields positive impacts for tropical forest conservation in the Democratic Republic of the Congo (DRC) (in prep).

Nackoney, J., Akpona, H.A., Kalemba, J.C., Facheux, C., T.S. Antoine, J.P. Mukadi. (in review). Participatory mapping and village-level forest use practice for sustainable community forest management in rural Democratic Republic of the Congo (DRC). *Forest Ecology & Management* (in review).

Fuller, T.L., T.P. Narins, **J. Nackoney**, T.C. Bonebrake, P.S. Clee, K. Morgan, A. Tróchez, D.B. Meñe, Bongwele, K.Y. Njabo, N.M. Anthony, M.K. Gonder, M. Kahn, W.R. Allen, T.B. Smith (2018). Assessing the impact of China's timber industry on Congo Basin land use change. *Area*, 51(2), 340-349. <https://doi.org/10.1111/area.12469>

Palumbo, I., R.A. Rose, R. M. K. Headley, **J. Nackoney**, A. Vodacek, M. Wegmann (2016). Building capacity in remote sensing for conservation: present and future challenges. *Remote Sens Ecol Conserv*, 3(1), 21-29. <https://doi.org/10.1002/rse2.31>

Jantz, S., L. Pintea, **J. Nackoney**, M. Hansen (2016). Landsat ETM+ and SRTM data provide near real-time monitoring of chimpanzee (*Pan troglodytes*) habitats in Africa. *Remote Sensing*, 8(5), 427. <http://doi.org/10.3390/rs8050427>

Terada, S., **J. Nackoney**, T. Sakamaki, M.N. Mulavwa, T. Yumoto, T. Furuichi (2015). Habitat use of bonobos (*Pan paniscus*) at Wamba: selection of vegetation types for ranging, feeding, and night-sleeping. *American Journal of Primatology* 77 (6): 701-713.

Fa, J.E., M.Á. Farfán, A.L. Marquez, J. Duarte, **J. Nackoney**, A. Hall, J. Dupain, S. Seymour, P. Johnson, J. Olivero, D. Macdonald, R. Real, J.M. Vargas (2015). Correlates of bushmeat in markets and depletion of wildlife. *Conservation Biology* 29 (3): 805-815.

Nackoney, J., G. Molinario, P. Potapov, S. Turubanova, M.C. Hansen, T. Furuichi (2014). Impacts of civil conflict on primary forest habitat in northern Democratic Republic of the Congo, 1990-2010. *Biological Conservation* 170: 321-328.

Fa, J.E., M.Á. Farfán, A.L. Marquez, J. Duarte, **J. Nackoney**, A. Hall, J. Dupain, S. Seymour, P. Johnson, D. Macdonald, J.M. Vargas (2014). Mapping Hotspots of Bushmeat and Threatened Species in the Cross-Sanaga Rivers Region. *Conservation Biology* 28 (1): 224-233.

Hickey, J., **J. Nackoney**, N. Nibbelink, S. Blake, A. Bonyenge, S. Coxe, J. Dupain, M. Emetshu, T. Furuichi, F. Grossman, P. Guislain, J. Hart, C. Hashimoto, B. Ikembelo, O. Ilambu, B. Inogwabini, I. Liengola, A. Lokasola, A. Lushimba, F. Maisels, J. Masselink, V. Mbenzo, N.M. Mulavwa, P. Naky, N.M. Ndunda, P. Nkumu, V. Omasombo, G.E. Reinartz, R. Rose, T. Sakamaki, S. Strindberg, H. Takemoto, A. Vosper, H.S. Kuhl (2013). Human Proximity and habitat fragmentation are key drivers of the rangewide bonobo distribution. *Biodiversity and Conservation* 22(13-14): 3085-3104.

Nackoney, J. and D. Williams (2013). A comparison of scenarios for rural development planning and conservation in the Democratic Republic of the Congo. *Biological Conservation* 164: 140-149.

Nackoney, J., D. Rybock, J. Dupain, C. Facheux (2013). Coupling participatory mapping and GIS to inform village-level agricultural zoning in the Democratic Republic of the Congo. *Landscape and Urban Planning* 110: 164-174.

Nackoney, J. and D. Williams (2012). Conservation prioritization and planning with limited wildlife data in a Congo Basin forest landscape: assessing human threats and vulnerability to land use change. *Journal of Conservation Planning* 8: 25-44.

Dupain, J., **J. Nackoney**, J.M. Vargas, P.J. Johnson, M.Á. Farfán, M. Bofaso, J. Fa (2012). Bushmeat characteristics vary with catchment conditions in a Congo market. *Biological Conservation* 146: 32-40.

Nackoney, J., N. Henninger, M. Said, P. Okwi, G. Ndeng'e, F. Landsberg, P. Kristjanson, R. Reid, D. Tunstall, G. Mock (2007). Using geospatial information to connect ecosystem services and human well-being in Kenya. *Information Development* 23: 160-181.

Payne, K., K. Samples, J. Epstein, A. Ostrander, J.W. Lee, J.P. Schmidt, S. Mathes, M. Elliott., **J. Nackoney**, S. Sand, F. Hay, M. Merrill, M. Golbali, M. Higgins, J. Howell, and L. Kramer (2003). Multisource data integration for Georgia land-cover mapping. *Southeastern Geographer* 43: 1-28.

BOOK CHAPTERS

Terada, S., **J. Nackoney**, T. Sakamaki, M.N. Mulavwa, T. Yumoto, T. Furuichi (2019). Comparative use of inundated habitats by great apes in the Congo Basin: A case study of swamp forest use by bonobos at Wamba, Democratic Republic of the Congo. In: *Primates in Flooded Habitats: Ecology and Conservation* (A.A. Barnett, I. Matsuda and K. Nowak, Eds.). Cambridge, U.K.: Cambridge University Press.

Jantz, S.M., L. Pintea, **J. Nackoney**, M.C. Hansen (2018). Global forest maps in support of conservation monitoring. In: *Satellite Remote Sensing for Conservation Action - Case Studies from Aquatic and Terrestrial Ecosystems* (A. Leidner & G. Buchanan, Eds.). Cambridge, U.K.: Cambridge University Press.

Nackoney, J., J. Hickey, D. Williams, C. Facheux, T. Furuichi, and J. Dupain. (2017). Geospatial information informs bonobo conservation efforts. In: B. Hare and S. Yamamoto (eds.), *Bonobos: Unique in Mind, Brain and Behavior* (pp. 251-265). Oxford, U.K.: Oxford University Press. ISBN: 9780198728511. DOI: 10.1093/oso/9780198728511.003.0017.

TECHNICAL REPORTS AND MISCELLANEOUS PUBLICATIONS

Fruth, B., Hickey, J.R., André, C., Furuichi, T., Hart, J., Hart, T., Kuehl, H., Maisels, F., **Nackoney, J.**, Reinartz, G., Sop, T., Thompson, J. & Williamson, E.A. (2016). *Pan paniscus*. The IUCN Red List of Threatened Species 2016: e.T15932A17964305.

Sidle J, J. Dupain, J. Beck, **J. Nackoney**, C. de Wasseige, J.D.M. Biang, R. Leprohon, S. Malele (2012). Chapter 11: Forest Zoning Experience in Central Africa. In: C. de Wasseige, P. de Marcken, N. Bayol, F. Hiol Hiol, Ph. Mayaux, B. Desclée, R. Nasi, A. Billand, P. Defourny, R. Eba'a (Eds.) *Congo Basin Forest – State of Forests 2010*. EU Publications Office, Luxembourg. 276 p. ISBN: 978-92-79-22717-2. doi: 10.2788/48830.

Dupain, J., A. Degrande, P. De Marcken, J. Elliott, and **J. Nackoney** (2010). Case Study 3 - Landscape land use planning: Lessons learned from the Maringa - Lopori -Wamba Landscape. In: D. Yanggen, K. Angu and N. Tchamou (eds.), *Landscape-Scale Conservation in the Congo Basin: Lessons Learned from the Central Africa Regional Program for the Environment (CARPE)* (pp. 46-60). Washington, DC: IUCN – USAID/CARPE. http://cmsdata.iucn.org/downloads/lessons_learned_chapter1_case_study3.pdf.

Dupain, J., F. Bwebwe, J. Elliott, K. Sebunya, D. Williams, J. **Nackoney** (2010). Case Study 2 - The Role of Alternative Livelihoods in Conservation: Lessons Learned from the Maringa-Lopori-Wamba Landscape." In: Yanggen, David, Angu, Kenneth, and Tchamou, Nicodeme (eds.), *Landscape-Scale Conservation in the Congo Basin: Lessons Learned from the Central Africa Regional Program for the Environment (CARPE)* (pp 21-30). Washington, DC: USAID/IUCN/CARPE.

Deveny, A., **J. Nackoney**, N. Puvis, R. Kopp, M. Gusti, G. Kindermann, M. Macauley, E. Myers Madeira, M. Obersteiner, A. Stevenson (2009). *Forest Carbon Index: The geography of forests in climate solutions*. Joint report by Resources for the Future and Climate Advisers. <http://www.forestcarbonindex.org/>.

Dupain, J., **J. Nackoney**, J.P. Kibambe, D. Bokelo, D. Williams (2009). Chapter 23: Maringa-Lopori-Wamba Landscape. In: de Wasseige C., Devers D., de Marcken P., Eba'a Atyi R., Nasi R. and Mayaux Ph. (eds.), *The Forests of the Congo Basin - State of the Forest 2008* (pp 329-338). Luxembourg: Publications Office of the European Union.

Vajjhala, S.P. and **J. Nackoney** (2008). The New Cartography of Climate Change, *Resources*, Resources for the Future, Fall 2008 (167).

World Resources Institute (WRI), Department of Resource Surveys and Remote Sensing (DRSRS) Ministry of Environment and Natural Resources, and Central Bureau of Statistics (CBS) Ministry of Planning and National Development (2007). Chapter 3: Water. Pages 24-41 in *Nature's Benefits in Kenya: An Atlas of Ecosystems and Human Well-Being*. Washington, DC: WRI. http://pdf.wri.org/kenya_atlas_06_water_ch3_150.pdf.

INTERVIEWS AND FEATURED WORK

Nuwer, R. (2016) "Even minor forest disturbance can cause great ape population crashes." *Mongabay.com / A Place Out of Time: Tropical Rainforests and the Perils They Face*, March 07, 2016. <http://news.mongabay.com/2016/03/even-minor-forest-disturbance-can-cause-great-ape-population-crashes/>

(also re-printed in *Smithsonian Magazine*: "The surprising way civil war took its toll on Congo's great apes." *Smithsonian Magazine*, March 2016. <http://www.smithsonianmag.com/science-nature/surprising-way-civil-war-took-its-toll-congos-great-apes-180958298/>)

Zielinski, S. (2014). "Congo's civil wars took a toll on its forests: Conflicts drove the human population deep into protected areas, satellite maps reveal." *Smithsonian Magazine Online*, Feb 26, 2014. <http://www.smithsonianmag.com/science-nature/congo-civil-wars-forests-180949888/?no-ist>

Kyoto University (2013). "The PrimateCast #17: An interview with Dr. Janet Nackoney." Kyoto University Center for International Collaboration and Advanced Studies in Primatology (CICASP) Podcast Series, July 2, 2013. Available online: <http://www.cicasp.pri.kyoto-u.ac.jp/news/podcasts/primatecast-17-interview-dr-janet-nackoney>

Shiner, L. (2013). "Earth's mirror: Landsat shows us the home planet, warts and all." *Smithsonian Air & Space* 28(1): 40-47. Print.

NASA-Goddard Media Studios (2012). "Mapping the Future with Landsat." Online narrated film: <https://svs.gsfc.nasa.gov/11004>

SELECTED ORAL PRESENTATIONS

An overview of GIS and mobile field data collection for the conservation of great apes. African Primatological Consortium for Conservation (APCC) 2019 Symposium, Addis-Ababa, Ethiopia (2019 August 25-27).

Spatial prioritization in Bili Landscape, Democratic Republic of the Congo (DRC). Society for Conservation GIS (SCGIS) Annual Conference, Monterey, CA, USA (2019 July 15-17).

Using geospatial information to inform participatory land use planning and conservation efforts for the bonobo (*Pan paniscus*) in the Democratic Republic of the Congo (DRC). American Association of Geographers (AAG) Annual Meeting, Washington, DC, USA (2019 April 3-7).

Assessing impacts of agricultural interventions and land use planning activities on deforestation in the Democratic Republic of the Congo (DRC). American Geophysical Union (AGU) 2018 Fall Meeting, Washington, DC, USA (2018 December 10-14).

Making Big Earth Observation Data Actionable for Great Ape Conservation in Eastern DRC. 2018 International Primatological Society (IPS) Congress, Nairobi, Kenya (2018 August 19-25).

Assessing impacts of agricultural interventions and land use planning activities on deforestation in the Democratic Republic of the Congo (DRC). 2018 Society for Conservation GIS (SCGIS) Conference, Monterey, CA, USA (2018 July 11-14).

Geospatial information informs conservation efforts of the bonobo (*Pan paniscus*) in the Democratic Republic of the Congo. Guest seminar at Primate Research Institute, Kyoto University, Inuyama, Aichi, Japan (2018 March 28).

Geospatial information informs conservation efforts of the bonobo (*Pan paniscus*) in the Democratic Republic of the Congo. Guest seminar at Nanjing Normal University (NNU), Nanjing, China (2017 October 20).

A UAV-based system to support anti-poaching patrols in the Bili-Uele Conservation Landscape, DRC. Invited speaker and panelist for "Application of geospatial data and tools for wildlife conservation" online webinar hosted by the Global Wildlife Program of the World Bank Group (2017 Sept 13). Available online: https://1930181.mediaspace.kaltura.com/media/GWP+Virtual+Knowledge+Event+-+Sep+12%2C+2017./1_fc0kddp3

Village-level analysis of community forest land use in the Democratic Republic of the Congo (DRC). 2017 Society for Conservation GIS (SCGIS) Conference, Monterey, CA, USA (2017 July 17-19).

A UAV-based system to support anti-poaching patrols in the Bili-Uele Conservation Landscape, DRC. 2017 Society for Conservation GIS (SCGIS) Conference, Monterey, CA, USA (2017 July 17-19).

Tree cover loss, human demographics, agricultural livelihoods and community forest use in northern Democratic Republic of the Congo (DRC). Association of American Geographers (AAG) Annual Meeting. Boston, MA, USA (2017 April 5-9).

Land use planning and geospatial conservation applications in the Democratic Republic of the Congo (DRC). Japan Society for the Promotion of Science Asia-Africa Science Platform Symposium. Kyoto University Primate Research Institute, Inuyama, Japan (2016 Nov 28 – Dec 11).

Landsat-based earth observations provide near real-time monitoring of chimpanzee habitat. 2016 Society for Conservation GIS (SCGIS) Conference, Monterey, CA, USA (2016 June 21-24).

Mapping ecosystem services for land use planning and policy. 2015 Congo Basin Forest Partnership (CBFP) 15th Meeting of Partners, Yaounde, Cameroon (2015 June 17-19).

Informing bonobo conservation planning in the Democratic Republic of the Congo. 2013 Society for Conservation GIS Conference, Monterey, CA, USA (2013 July 13-16).

Using mapping and GIS for land use planning and bonobo conservation in the Democratic Republic of the Congo. Japan Society for the Promotion of Science Asia-Africa Science Platform Symposium, Conservation of Isolated Primate Populations Symposium. Kyoto University Primate Research Institute, Inuyama, Japan (2012 Oct 29-30).

Spatial models and methods for sustainable development and land-use planning in the Democratic Republic of the Congo. United Nations Special Session Track, Association for American Geographers (AAG) 2012 Annual Meeting, New York, USA (2012 Feb 24-29).

Harnessing spatial tools for bonobo conservation in the Maringa-Lopori-Wamba Landscape, Democratic Republic of Congo. International Primatological Society XXIII Congress, Kyoto, Japan (2010 Sept 12-18).

Participative land-use planning for bonobo conservation in the Maringa-Lopori-Wamba Landscape, Democratic Republic of Congo. Keynote talk for International Primatological Society Pre-Congress Workshop: Quest for Co-Existence with Non-Human Primates, Kyoto, Japan (2010 Sept 6-7).

Conservation land-use planning in the Democratic Republic of the Congo. Monitoring Carbon Stocks and Fluxes in the Congo Basin Workshop, Brazzaville, Republic of the Congo (2010 Feb 2-4).

The Maringa-Lopori-Wamba Landscape: Land-use planning and modeling. Land-Use Planning and Zoning Workshop in the Democratic Republic of Congo (DRC), Kinshasa, DRC (2009 Sept 23).

The Maringa-Lopori-Wamba Landscape: Land-use Planning and modeling. Esri International User's Conference, San Diego, CA, USA (2009 July 15).

The Maringa-Lopori-Wamba Landscape: Land-Use Planning and modeling. Association of American Geographers (AAG) 2009 Annual Meeting, Las Vegas, NV, USA (2009 March 22-27).

Using GIS to model resource selection and habitat suitability of the African forest elephant in the Congo Basin. University Consortium for GIS (UCGIS) 2007 Summer Assembly. Yellowstone National Park, Wyoming, USA (2007 June 27-28).

Monitoring forest elephants in Central Africa: Using GIS to examine forest elephant range, abundance and human threats to habitat in the forests of the Congo Basin. 2006 Society for Conservation GIS Conference. San Jose, California, USA (2006 June 24-28).

Developing opportunities for poverty reduction through spatial analysis of ecosystem services in Kenya. 2005 AfricaGIS Conference. Pretoria, South Africa (2005 October 31 - November 3).

Mapping poverty and ecosystem services in Kenya. 2005 Society for Conservation GIS Conference. Monterey, California, USA (2005 July 31 – August 2).

Mapping poverty and ecosystem Services in Kenya. 2005 Esri International User Conference. San Diego, California, USA (2005 July 25-29).

Showing spatial relationships between biodiversity-related indicators using national, sub-national and regional poverty data. Research for Man and Environment (RIVM) Workshop on Poverty-Biodiversity Linkages. Quito, Ecuador (2004 November 24-26).

Using aerial photos to identify specific crop types in Kenya's *Africover* map. 2003 AfricaGIS Conference. Dakar, Senegal (2003 November 3-7).

CONFERENCES AND WORKSHOPS

- Society for Conservation GIS (SCGIS) Conference: 2002, 2004, 2005, 2006, 2013, 2016, 2017, 2018, 2019.
- Association of American Geographers (AAG) Annual Meeting: 2009, 2012, 2017, 2019.
- American Geophysical Union (AGU) Fall Meeting: 2012, 2015, 2018.
- International Primatological Society Congress: 2010, 2018.
- International Congress for Conservation Biology (ICCB): 2017.
- Student Conference on Conservation Science- New York (SCCS-NY): 2016.
- Congo Basin Forest Partnership (CBFP) Partners Meeting: 2014, 2015.
- North American Congress for Conservation Biology (NACCB): 2006, 2013.
- Esri International User's Conference: 2002, 2004, 2005, 2007, 2009, 2011, 2012.
- International Primatological Society Pre-Congress Workshop: Quest for Co-Existence with Non-Human Primates, Kyoto, Japan: September 6-7, 2010 (invited Speaker and Guest Lecturer).
- Monitoring Carbon Stocks and Fluxes in the Congo Basin Workshop, Central African Forest Commission (COMIFAC), Brazzaville, Republic of the Congo: February 2010.
- Workshop on Land-Use Planning and Zoning in the Democratic Republic of Congo (DRC), African Wildlife Foundation, US Forest Service and Direction Inventaire et Aménagement Forestiers (*DIAF*), Kinshasa, Democratic Republic of the Congo: September 2009.
- University Consortium for Geographic Information Science (UCGIS) Summer Assembly: 2007.
- Workshop on Poverty-Biodiversity Linkages, Research for Man and Environment [RIVM], Quito, Ecuador: November 2004.

PROFESSIONAL TRAININGS ATTENDED

- Introduction to Google Earth Engine: Hands-on. Student Conference on Conservation Science- New York (SCCS-NY) Technical Workshop. October 21, 2016.
- Occupancy Modeling for Wildlife Conservation. Student Conference on Conservation Science- New York (SCCS-NY) Technical Workshop. October 22, 2016.
- Remote Sensing Training: Methods & Best Practices. NASA Applied Remote Sensing Training (ARSET). Oct 13-27, 2016.

- Introduction to Remote Sensing for Conservation Management. NASA Applied Remote Sensing Training (ARSET). May 5- June 12, 2015.
- A Crash Course in Spatial Analyses using Program R. 2013 UCGIS Pre-Symposium Workshop. May 20, 2013.
- Marxan for Managers. Pacific Marine Analysis & Research Association, Washington, DC. October 3, 2012.
- Experimental Design and Ecological Statistics. Smithsonian Conservation Biology Institute, Front Royal, Virginia. August 17 – 27, 2010.

AWARDS

- Dean's Research Initiative award, University of Maryland, 2016 & 2018.
- Student Paper Award, University Consortium for Geographic Information Science (UCGIS), July 2007.
- President's Award, World Resources Institute, May 2003.
- Outstanding Senior in Geography Award, Indiana University, April 2000.
- Dorothy L. Herriman Music Scholarship, Indiana University, September 1995.

GRADUATE MENTORING

- Alison Thieme, Department of Geographical Sciences, University of Maryland. Ph.D. Committee Member, 2018-present.
- Annette Spivy, Department of Geographical Sciences, University of Maryland. Ph.D. Committee Member, 2018-present.
- Diana Parker, Department of Geographical Sciences, University of Maryland. Ph.D. Committee Member, 2017-present.
- Sam Jantz, Department of Geographical Sciences, University of Maryland. Ph.D. Committee Member, 2013-present.
- Fernanda Ribiero, Department of Geography, University of California-Santa Barbara. Ph.D. Committee Member, 2013-present.
- Saeko Terada, Primate Research Institute, Kyoto University. Ph.D. committee member, 2016-2018.

SERVICE

- President, Society for Conservation GIS (SCGIS). *2018-present.*
- Research Faculty Chair, Department of Geographical Sciences, University of Maryland. *2017-present.*
- Technical Advisory Committee, African Primatological Consortium for Conservation (APCC), *2017-present.*
- Advisory Board Member, Congo Education Partners, Washington, DC. *2013-present.*
- Chapter Co-Organizer for Washington, DC, Society for Conservation GIS (SCGIS). *2012-present.*
- Vice President, Society for Conservation GIS (SCGIS). *2015-2018.*
- Department Committee Representative (Research Faculty), Department of Geographical Sciences, University of Maryland. *2013-2014, 2016-2017.*
- Reviewer, NASA Applied Sciences Program, 2016.
- Board Member, Society for Conservation GIS (SCGIS). *2014-2015.*
- Research Faculty Happy Hour Seminar Organizer, Department of Geographical Sciences, University of Maryland. *2013-2014.*
- Domestic Chapter Committee Chair, Society for Conservation GIS (SCGIS). *2013 - 2014.*
- Research Fellow, Primate Research Institute (PRI), Kyoto University. *Oct - Nov 2011.*

- Invited Speaker and Guest Lecturer, International Primatological Society Pre-Congress Workshop. *Sept 2010.*
- Panel Reviewer, World Bank Development Marketplace Competition. *July 2009.*
- Manuscript reviewer: *Biological Conservation, Conservation Biology, EcoHealth, Environmental Conservation, Global Ecology and Conservation, International Development, Journal of Geography and Regional Planning, Journal of Sustainable Forestry, Regional Environmental Change, Sustainability.*

PROFESSIONAL AFFILIATIONS

Society for Conservation GIS (SCGIS), 2002 – Present.

Society for Conservation Biology (SCB), 2007 – 2010, 2013 – Present.

American Geophysical Union (AGU), 2012, 2014 – Present.

International Primatological Society (IPS), 2010 – 2012, 2017 – Present.

Association of American Geographers (AAG), 2008 – 2012, 2016 – Present.

International Geospatial Society (IGS-GSDI) (Founding Member), 2009 – 2012.