

# BILAL BUTT

- Associate Professor ▪ School for Environment & Sustainability ▪ University of Michigan ▪
- 2502 Dana Building ▪ 440 Church Street ▪ Ann Arbor, MI 48109 - 1041 ▪ Office: +1-(734) 615-6149
- [bilalb@umich.edu](mailto:bilalb@umich.edu) ▪ <https://envgeopolitics.com> ▪ [orcid.org/0000-0002-1613-0921](https://orcid.org/0000-0002-1613-0921) ▪ [@enviro\\_conflict](https://twitter.com/enviro_conflict) ▪

## PROFESSIONAL PREPARATION

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- 2008 – 2011 Postdoctoral Scholar University of Wisconsin, Madison
- 2008-2010 NSF Postdoctoral Research Fellow in Geography
    - Pastoral Livestock-Wildlife Competition in East Africa
  - 2010-2011 USAID Postdoctoral Research Associate
    - Rangeland Phenology in Sahelian West Africa
- 2002– 2007 Ph.D. (Geography) Michigan State University
- Gill-Chin Lim Award for Outstanding Doctoral Dissertation in Global Studies
  - Dissertation title: Grazing on the Edge: Cattle Mobility, Ecology and Maasai Herding in Southern Kenya
- 2000 – 2002 MA (Geography) Michigan State University
- Thesis title: Seasonal Factors Influencing Livestock Herding Strategies in the Talek Area, Narok District, Kenya: A Political Ecology Perspective
  - Graduate Student of the Year Award (2002)
- 1996 – 1999 BA (Geography) Eastern Kentucky University (*magna cum laude*)
- Specializations: Human-Land Relations, GIS, Statistics, Environmental Planning
  - Milos Sebor Scholarship Award
  - International Student Scholarship Award

## APPOINTMENTS & AFFILIATIONS

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- 2020 – 2022 *Co-Director of Sustainability and Development Academic Specialization*
- 2020 – 2021 *Director of Diversity, Equity, and Inclusion*  
Deans Executive Leadership Council (Highest Decision Making Body at the School)
- 2017 – Present *Associate Professor of Environment & Sustainability*  
School for Environment and Sustainability, University of Michigan
- \* Recipient of NSF Research CAREER Award (2016)
  - \* Recipient of Superior Faculty Teaching Award (2020)
  - \* Faculty Affiliate, African Studies Center (2011 – Present)
  - \* Faculty Affiliate, Science Technology, and Public Policy Program (2015 – Present)
  - \* Faculty Affiliate, Center for Global Health Equity (2022 – Present)
- 2011 – 2017 *Assistant Professor of Natural Resources & Environment*  
School for Natural Resources and Environment, University of Michigan
- \* Provosts Recognition for Commitment to Global Education
  - \* Nominated for Superior Teaching Award (multiple years)
  - \* Multiple NSF Grants and Internal Competitions
- 2017 – Present *Faculty Affiliate*  
Department of Environmental Studies and Community Development, Kenyatta University

2012 – 2014 *Research Associate*  
Center for Sustainable Dryland Ecosystems and Societies, College of Agriculture and Veterinary Sciences, University of Nairobi

2016 – 2017 & 2012 – 2013 *Director of Geospatial Data Science Academic Specialization*  
School of Natural Resources & Environment

2008 – 2010 *Research Affiliate*  
People, Livestock and Environment Theme, International Livestock Research Institute

2011 *Research Associate*  
Department of Geography, University of Wisconsin, Madison  
▪ Research focus: Latitudinal gradients of rangeland phenology in Sudano-Sahelian West Africa

2011 *Lecturer (GEO 139: Resources and People)*  
Department of Geography, University of Wisconsin, Madison

2008 – 2010 *National Science Foundation Minority Postdoctoral Research Fellow*  
Department of Geography, University of Wisconsin, Madison  
▪ Research focus: Scale, competition, and the interactions between wildlife and livestock in East Africa

2008 – 2009 *Honorary Fellow*  
Land Tenure Center, Nelson Institute of Environment Studies, University of Wisconsin

2007 *Instructor (GEO 338: Geography of Africa)*  
Department of Geography, Michigan State University

2000 – 2007 *Graduate Teaching and Research Assistantships*  
Departments of Geography, International Studies, and Zoology, Michigan State University

2004 – 2007 *Graduate Fellow*  
People, Livestock and Environment Theme, International Livestock Research Institute

2001 – 2003 *Research Assistant*  
Land Use Change Impacts and Dynamics Project (LUCID) and Climate Land Interactions Projects in East Africa (CLIP), under UNEP/GEF & NSF funding to the Department of Geography & Zoology Michigan State University and International Livestock Research Institute

2002 – 2003 *Research Consultant*  
Land Use Change, Impacts and Dynamics Project (LUCID), under UNEP/GEF funding to the International Livestock Research Institute (ILRI) Nairobi, Kenya

2000 *Technical Consultant*  
Arabuko-Sokoke Forest Management and Conservation Plan, under European Union funding to the Joint Task Force Committee with BirdLife International, National Museums of Kenya, Forest Department, Kenya Forestry Research Institute, and Kenya Wildlife Service

1997 – 1999 *Undergraduate Teaching Assistant*  
GEO221: Introduction to Physical Geography, GEO 353: Introduction to GIS

1998 – 1999 *Research Technician*  
GIS database developing for the City mapping project, under the City of Richmond, KY funding to the Geographic Research and Support Center, Eastern Kentucky University

## HONORS, AWARDS & NOMINATIONS

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- 2020 *University of Michigan*  
Recipient of the SEAS Superior Teaching Award (Nominated in 2016, 2017, 2018)
- 2016 *National Science Foundation*  
Recipient of the NSF CAREER Award – Geography and Spatial Sciences (NSF’s most prestigious award in support of junior faculty who exemplify the role of teacher-scholars through outstanding research, excellent education, and integration of education and research within the context of the mission of their organizations).
- 2012, 2013 *University of Michigan*  
Nominated and recognized by undergraduate students and the Provost’s office for efforts to advance global engagement.
- 2008 *National Science Foundation*  
Recipient of the NSF Minority Postdoctoral Fellow, Division of Biological Infrastructure
- 2008 *Michigan State University*  
Gill-Chin Lim award for outstanding doctoral dissertation in global studies
- 2007 *Michigan State University*  
Recipient of the travel grant endowment, Department of Geography, College of Social Science, and the Graduate School.
- 2005 *National Science Foundation*  
Recipient of the Doctoral Dissertation Research Award
- 2003 *Michigan State University*  
Recipient of the Walker Hill International Travel Award, International Studies, and Programs
- 2002 *Michigan State University*  
Recipient of the Graduate Student of the Year, Department of Geography
- 2002 *Michigan State University*  
Recipient of the Travel Grant Endowment, Department of Geography, College of Social Science, and the Graduate School
- 2000 *American Congress on Mapping and Surveying*  
Recipient of the Student Project of the Year
- 2000 *Who’s Who in American Colleges and Universities*  
Geography
- 1997 - 1999 *Eastern Kentucky University*  
Recipient of the Presidents List, Dean’s List & Deans Award
- 1998 *Eastern Kentucky University*  
Recipient of the Milos Sebor Undergraduate Scholarship, Department of Geography
- 1997 - 1999 *Eastern Kentucky University*  
Recipient of the International Student Scholarship

## JOURNAL PUBLICATIONS (PEER-REVIEWED; \* INDICATES STUDENT CO-AUTHOR)

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- 2022 \*Krishnan, R. and Butt, B. “The Gasoline of the Future:” Electric Vehicles, Points of Continuity, and Making Green Capitalism” *Energy Research and Social Sciences* **83**: 102349

[doi.org/10.1016/j.erss.2021.102349](https://doi.org/10.1016/j.erss.2021.102349)

- 2021 H D. Hedman\*, L. Zhang, **B. Butt**, P. Papias\*, J. A. Trostlee, J. Eisenberg. "Chicken dumping": Motivations and perceptions in shifting agricultural practices. *One Health* **13**: 100296 [doi.org/10.1016/j.onehlt.2021.100296](https://doi.org/10.1016/j.onehlt.2021.100296)
- 2020 H. D. Hedman\*, L. Zhang, G. Trueba, D. L. Vinueza Rivera, R. A. Zurita, Herrera, J. Villacis Barraqueta, G. I. Gavilanes Rodriguez, **B. Butt**, J. Foufopoulos, V. J. Berrocal, and J. N. Eisenberg "Spatial exposure of agricultural antimicrobial resistance to free-range domestic chicken (*Gallus gallus domesticus*) movement patterns among agricultural communities in Ecuador *American Journal of Tropical Medicine & Hygiene* **103**(5):1803-1809 [doi.org/10.4269/ajtmh.20-0076](https://doi.org/10.4269/ajtmh.20-0076)
- 2020 **Butt, B.** "Digital Data and Knowledge Making in the Field" *The Geographical Review* **110**(1-2): 183-194 [doi: 10.1111/gere.12363](https://doi.org/10.1111/gere.12363)
- 2019 Adunbi, A. and **Butt, B.** (co-editors of a special issue) "Afro-Chinese Engagements: infrastructure, land, labour, and finance" *Africa* **89**(4): 633-637 [doi.org/10.1017/S0001972019000822](https://doi.org/10.1017/S0001972019000822)
- 2018 **Butt, B.** "Environmental Indicators and Governance" *Current Opinion in Environmental Sustainability* **32**: 84-89 [doi.org/10.1016/j.cosust.2018.05.006](https://doi.org/10.1016/j.cosust.2018.05.006)
- 2017 \*Steger, C.S. **Butt, B.** and Hooten, M. "Safari Science: Assessing the reliability of citizen science data for wildlife surveys" *Journal of Applied Ecology* **54**(6): 2053-2062 [doi: 10.1111/1365-2664.12921](https://doi.org/10.1111/1365-2664.12921) (Open Access)
- 2016 **Butt, B.** "Ecology, Mobility and Labor: Dynamic Pastoral Herd Management in an Uncertain World". *Rev. Sci. Tech. Off. Int. Epiz (Scientific and Technical Review of the Office International des Epizooties)* **35**(2): 461-471 [doi: 10.20506/rst.35.2.2530](https://doi.org/10.20506/rst.35.2.2530) (Invited Submission to the World Organization for Animal Health on 'The Future of Pastoralism')
- 2016 **Butt, B.** "Neoliberalism, Conservation and Dispossession in Kenya's Arid Lands". *Humanity: An International Journal of Human Rights, Humanitarianism, and Development* **7**(1): 91-110 [doi: 10.1353/hum.2016.0009](https://doi.org/10.1353/hum.2016.0009)
- 2016 Turner, M., **Butt, B.**, Singh, A.\*, Brottem, L.\*, Ayantunde, A., and B. Gerard. "Variation in vegetation cover and livestock mobility needs in Sahelian West Africa" *Journal of Land Use Science* **11**(1): 76-95 [doi:10.1080/1747423X.2014.965280](https://doi.org/10.1080/1747423X.2014.965280)
- 2016 O'Connor, D.\* **Butt, B.** and Foufopoulos, J. "Mapping the ecological footprint of large livestock overlapping with wildlife in Kenyan pastoralist landscapes" *African Journal of Ecology* **54**(1): 114-117 [doi: 10.1111/aje.12241](https://doi.org/10.1111/aje.12241)
- 2015 Steger, C.\* and **Butt, B.** "Integrating Citizen Science into East African Protected Areas: Problems and Prospects" *African Journal of Ecology* **53**(4): 592-594 [doi: 10.1111/aje.12199](https://doi.org/10.1111/aje.12199)
- 2015 O'Connor, D.\* **Butt, B.**, and J. Foufopoulos. "Foraging ecologies of giraffe (*Giraffa camelopardalis reticulata*) and camels (*Camelus dromedarius Linnaeus*) in northern Kenya: Effects of habitat structure and possibilities for competition?" *African Journal of Ecology* **53**(2): 183-193 [doi: 10.1111/aje.12204](https://doi.org/10.1111/aje.12204)
- 2015 **Butt, B.** "Herding by Mobile Phone: Technology, Social Networks and the "Transformation" of Pastoral Herding in East Africa" *Human Ecology* **43**(1): 1-14 [doi: 10.1007/s10745-014-9710-4](https://doi.org/10.1007/s10745-014-9710-4)
- 2014 **Butt, B.** "The Political Ecology of Livestock Incursions into Protected Areas: Technology, Place and Socio-Ecological Dynamics in the Mara Region of Kenya" *Africa: Journal of the*

- International African Institute* **84**(4): 614-637 [doi:10.1017/S0001972014000515](https://doi.org/10.1017/S0001972014000515)
- 2014 DuPuy, W.\*, Benka, V.\*, Massey, A.\*, Deem, S., Kinnaird, M., O'Brien, T., Wanyoike, S., Njoka, J., **Butt, B.**, Foufopoulos, J., Eisenberg, J., and R. Hardin "Q Fever Risk across a Dynamic Heterogeneous Landscape in Central Kenya" *EcoHealth* **11**(3):429-433 [doi:10.1007/s10393-014-0924-0](https://doi.org/10.1007/s10393-014-0924-0)
- 2014 Brottem, L.\*, Turner, M. **Butt, B.** and A. Singh\*. "Biophysical Variability and Pastoral Rights to Resources: West African Transhumance Revisited" *Human Ecology* **42**(3): 351-365 [doi:10.1007/s10745-014-9640-1](https://doi.org/10.1007/s10745-014-9640-1)
- 2012 **Butt, B.** and Turner, M. D. "Clarifying competition: The case of wildlife and pastoral livestock in East Africa." *Pastoralism: Research, Policy, and Practice* **2**(9): 1-15 [doi:10.1186/2041-7136-2-9](https://doi.org/10.1186/2041-7136-2-9) *Open Access & Most Accessed Article in the Journal's History*
- 2012 **Butt, B.** "Commoditizing the Safari and Making Space for Conflict: Place, Identity and Parks in East Africa." *Political Geography* **31**(2): 104-113 [doi:10.1016/j.polgeo.2011.11.002](https://doi.org/10.1016/j.polgeo.2011.11.002)
- 2011 **Butt, B.** Turner, M. Singh, A.\* & L. Brottem\*. "Use of MODIS NDVI to Evaluate Changing Latitudinal Gradients of Rangeland Phenology in Sudano-Sahelian West Africa." *Remote Sensing of Environment* **115**(12): 3367-3376 [doi:10.1016/j.rse.2011.08.001](https://doi.org/10.1016/j.rse.2011.08.001)
- 2011 **Butt, B.** "Coping with uncertainty and variability: The influence of protected areas on pastoral herding strategies." *Human Ecology* **39**(3): 289-307 [doi:10.1007/s10745-011-9399-6](https://doi.org/10.1007/s10745-011-9399-6)
- 2010 **Butt, B.** "Pastoral resource access and utilization: quantifying the spatial and temporal relationships between livestock mobility, density and biomass availability in southern Kenya." *Land Degradation and Development* **21**(6): 520-539 [doi:10.1002/ldr.989](https://doi.org/10.1002/ldr.989)
- 2010 **Butt, B.** "Seasonal space-time dynamics of cattle behavior and mobility among Maasai pastoralists in semi-arid Kenya." *Journal of Arid Environments* **74**(3): 403-413 [doi:10.1016/j.jaridenv.2009.09.025](https://doi.org/10.1016/j.jaridenv.2009.09.025)
- 2009 **Butt, B.** Shortridge, A., and A. WinklerPrins. "Pastoral herd management, drought coping strategies, and cattle mobility in Southern Kenya." *Annals of the Association of American Geographers* **99**(2): 309-334 [doi: 10.1080/00045600802685895](https://doi.org/10.1080/00045600802685895)

### **EDITED BOOK CHAPTERS (PEER-REVIEWED; \* INDICATES STUDENT CO-AUTHOR)**

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- 2023 Mirjam de Bruijn, Q. Zhang, H. Abu-Kishk, **B. Butt**, N. Hashimshony-Yaffe, T. Sternberg, A. Pas. "Drylands connected: Mobile communication and changing power positions in (nomadic) pastoral societies". In, *Drylands Facing Change: Interventions, Investments and Identities*. A. K. Garcia, T. Haller, H. V. Dijk, C. Samimi and J. Warner (eds). London, Routledge. <https://doi.org/10.4324/9781003174486>
- 2018 Duvall, C., **Butt, B.**, and A. Neely. "The trouble with savanna and other environmental categories, especially in Africa". In, *Handbook of Critical Physical Geography*, R. Lave, C. Biermann, and S. Lane, (Eds.) Pages 107-127. Palgrave publishing [doi.org/10.1007/978-3-319-71461-5\\_6](https://doi.org/10.1007/978-3-319-71461-5_6)

### **SUBMITTED FOR REVIEW (\*INDICATES STUDENT CO-AUTHOR)**

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1. Pas Schriver, A. Watson, K. and **Butt, B.** Alliances, Dissonances, and Spatial Formations: Collectivisation Through Community Conservancies in Northern Kenya
2. De Jong, M.\* **Butt, B.** and Adunbi, O. Running the Show: Kenya's Private Conservancies and

the "Big Men" of Environmental Governance

3. De Jong, M and **Butt, B.** "Conservation Violence: Paradoxes of "Making Live" and "Letting Die" in Anti-Poaching Practices"
4. **Butt, B.** Doing Environmental Justice: Prospects For Sustainable Engagement.
5. Kalsky, E. and **Butt, B.** "The Thanatopolitics of the Dairy Farm"

#### **IN PREPARATION FOR REVIEW (\*INDICATES STUDENT CO-AUTHOR)**

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1. **Butt, B.,** Adunbi, O. and Pal, J. "Unintended Consequences of Technology in Development: A Cross-Sectional Analysis"
2. **Butt, B.** and Allington, G. "Degrees of Freedom and the Politics of Arid Rangelands: Enclosures and Inference in the Geographies of Science"
3. **Butt, B.** "Effects of Herd Size on Seasonal Resource Access Strategies of Pastoral Managed Cattle: Recent Evidence Combining MODIS NDVI and GPS Collars"
4. Butt, B. "Mega Infrastructure Development and Land Conflict in the Frontier"
5. Kaminsky, A. and **Butt, B.** "The Chinese Safari: A New Tourist Gaze in Kenya"

#### **PUBLICATIONS (PUBLISHED, ONLINE, or WORKING PAPERS)**

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- 2019 De Jong, M. and **Butt, B.** Guns of GPS: An online Case Study for Teaching. Michigan Sustainability Cases. Available online at: [www.learnkala.com](http://www.learnkala.com)
- 2005 Reid, R. Gachimbi, L. Worden, J. Wangui, E. Mathai, S. Mugatha, S. Campbell, D. Maitima, J. **Butt, B.** Gichohi, H. and Ogol, E. "Linkages between changes in land use, biodiversity and land degradation in the Loitokitok area of Kenya." *LUCID Working Paper Series #49* United Nations Environment Programme/Global Environment Facility.
- 2004 Norton-Griffiths, M. and **Butt, B.** "The economics of land-use change in Loitokitok Division of Kajiado District, Kenya." *LUCID Working Paper Series #34* United Nations Environment Programme/Global Environment Facility.
- 2004 Olson, J. with **Butt, B.** Maitima, J. Atieno, F. Imbernon, J. Muchugu, E. Murimi, G. and H. Xu. "Land use change patterns and processes on the eastern slopes of Mt. Kenya." *LUCID Working Paper Series #20.* United Nations Environment Programme/Global Environment Facility.
- 2002 **Butt, B.** and Olson, J. "An approach to dual land use and land cover interpretation of 2001 satellite imagery of the eastern slopes of Mt. Kenya." *LUCID Working Paper Series #16.* United Nations Environment Programme/Global Environment Facility.

#### **RESEARCH GRANTS (EXTERNAL; TOTAL = US\$ 711,948)**

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- 2016-2021 *National Science Foundation – Division of Behavioral and Cognitive Science* 1552429  
Title: CAREER: Situated Resilience and the New Geographies of Wildlife-Livestock Interactions. (**B. Butt – PI**). US\$ 649,999.00
- 2012-2014 *National Science Foundation – Division of Biological Infrastructure* 1237487  
Title: Understanding savanna vegetation dynamics in East Africa under different off-take methods and precipitation regimes. (**B. Butt – PI**). US\$ 49,974.00

2005-2006 *National Science Foundation – Division of Behavioral and Cognitive Science 0525809*  
Title: Socio-Political and Ecological Complexity of Pastoral Herding Strategies around the Maasai Mara National Reserve, Kenya. Doctoral Dissertation Research Improvement Grant (A. WinklerPrins – PI, **B. Butt Co-PI**). US\$ 11,975.00

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## RESEARCH GRANTS (INTERNAL; TOTAL = US\$211,940)

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2019-2023 *University of Michigan – School for Environment and Sustainability*  
Title: Sustainability and Development Initiative (PIs: **Bilal Butt**, Pam Jagger, Arun Agrawal, Maria Lemos, and M. Jain). US\$ 81,000

2019-2020 *University of Michigan – MCubed 3.0 (Office of the Provost)*  
Title: Sustainable Development Resource Books Africa (co-PIs: M. Jain, B. Min and **B. Butt**). US\$60,000.00

2018-2020 *University of Michigan- African Heritage Initiative*  
Title: A People’s History of the Maasai Mara, Kenya (**B. Butt – PI**, J. Muriithi, co-PI). US\$10,000.00

2015-2020 *University of Michigan - Office of the Provost and Executive Vice President for Academic Affairs – Transforming Learning for a Third Century (TLTC) Transformation*  
Title: Transforming Sustainability Education and Case-Based Teaching (A. Agrawal, R. Hardin – PIs and 17 others including **B. Butt**). US\$ 1,595,749.00

2015-2017 *University of Michigan – MCubed 2.0 Program (Office of the Provost)*  
Title: Novel Sensor Packages and Big Data Algorithms for the Understanding of Wildlife and Livestock Interactions in the Semi-arid Ecosystems of East Africa (co-PIs: M. Johnson-Roberson, J. Abernathy and **B. Butt**). US\$60,000.00

2015-2016 *University of Michigan - Taubman College of Architecture and Urban Planning*  
Title: Domestic Visitors: An Exhibition on Resource Scarcity (A. Fure – PI, **B. Butt**, and M. Kenyon – Co-PIs). US\$20,000.00

2013-2015 *University of Michigan- African Social Research Initiative*  
Title: Technologies of Conservation Governance & State Surveillance in Kenya’s Protected Areas (**B. Butt – PI**, J. Njoka, co-PI). US\$10,000.00

2012-2014 *University of Michigan – MCubed 1.0 Program (Office of the Provost)*  
Title: Unintended consequences of technology in development (**B. Butt – PI**, O. Adunbi & J. Pal – Co-PIs). US\$60,000.00

2012-2014 *University of Michigan – School of Natural Resources and Environment SEED Grant*  
Title: Science, Practice, and Public Participation: Natural Resource Monitoring in African Protected Areas. (**B. Butt – PI**) – US\$ 19,940.00

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## RESEARCH FELLOWSHIPS

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2008-2010 *National Science Foundation – Division of Biological Infrastructure 0706756*  
Title: Grazing on the Edge: Linking Pastoral Livestock Mobility Patterns and Ecological Processes at the Micro-Scale in Southern Kenya. Minority Postdoctoral Research Fellowship, Directorate of Biological Sciences. US\$189,000.00

2006 *Michigan State University*  
Carnegie Academy for the Scholarship of Teaching and Learning (CASTL) Fellow,

- Residential College of Arts and Humanities. US\$6,000.00
- 2005-2006 *Compton Foundation*  
Peace and Security Studies Fellowship. African Studies Center/Women and International Development Program, Michigan State University. US\$ 15,000.00
- 2001-2007 *Michigan State University*  
Graduate Office Fellowship, Department of Geography. US\$ 17,853.00

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**EXTERNAL INVITED LECTURES AND SEMINARS** (\* plenary speaker; †student selected)

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- 2022 First U.S.-Africa Frontiers of Science, Engineering, and Medicine Symposium. *US National Academy of Sciences and Medicine and African Academy of Sciences*. Nairobi, Kenya 12-14 October
- 2022 Land Grabs, Wildlife Conflicts, and Resource Use in East Africa. *Yale University*, School of Environment, New Haven, CT. 31 March
- 2021 Indicators and Environmental Governance. *Columbia University*, New York, NY. 23 April
- 2020 Conservation Violence in Kenya: Looking Beyond Dominant Narratives. *Kenyatta University*, Nairobi Kenya. 10 February
- 2019 Conservation and Environmental Securitization: Poaching, Technology & Terrorism in East Africa. *George Washington University*, Washington D.C. October 4
- 2019 Old Ports, New Ports: Development, Security, and Infrastructure in Lamu, Kenya. Institute for African Development, *Cornell University*, Ithaca, NY. March 28.
- 2017 The Political Ecology of Pastoralism: Commons, Enclosure and Technological Adoption in an Uncertain World. Department of Human Ecology, Community and Regional Development Unit. *University of California, Davis*. Davis, CA. March 9
- 2017 Conservation, Mobile Phones and the New Pastoral Commons in Kenya. Carter G. Woodson Institute for Afro-American and African Studies. The *University of Virginia*. Charlottesville, VA. Feb. 10
- 2016 People and Protected Areas in sub-Saharan Africa: Past, Present, and Future. Symposium at the *Ethiopian Biodiversity Institute*. Addis Ababa, Ethiopia Nov. 30.
- 2015 \*† From Phenology to Poaching: International Environmental Research Collaborations in sub-Saharan Africa. Environmental Science and Public Policy Research Symposium 2015: International Research Collaborations - Addressing Environmental Challenges. *Michigan State University*. East Lansing, MI, Oct. 23.
- 2014 Session Presenter and co-Chair: Staying Mobile, Staying Healthy? Pastoralism, mobility, and human health in the drylands of East Africa. Special organized session on Pastoralism, rural communities, and the human-animal health Interface in Africa. *International Meeting on Emerging Diseases and Surveillance*. Vienna, Austria Nov. 2
- 2014 †Technology, Mobility and Resource Access Struggles: Does Technology “Revolutionize” Grazing Strategies Among Pastoralists in East Africa? *Michigan State University*, Department of Geography (Specially selected by graduate students). East Lansing, MI Sep. 19.
- 2010 Cattle mobility, ecology, and Maasai herding in southern Kenya. People, Livestock, and Environment Theme. *International Livestock Research Institute (ILRI)*. Nairobi, Kenya Jan. 6.

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**CONFERENCE PRESENTATIONS** (\* published abstracts, †presenting author)

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- 2020 Drylands, Wealth and Security. Third Biennial Conference of the Political Ecology Network (POLLEN) *University of Sussex* 22 September 2020. Presentation delivered remotely via Zoom during COVID-19
- 2018 Securitization, Militancy, and Accumulation in the Frontier: Conservation in Arid Lands. Drylands and “New” Accumulations of Wealth. Second Biennial Conference of the Political Ecology Network (POLLEN) *Oslo and Akershus University College*. 21 June Oslo, Norway
- 2018 Mountain Violence: Climbing Adventures and Glacial Retreat in Equatorial Alpine East Africa. *Annual Meeting of the Association of American Geographers*. Apr. 11, New Orleans, LA.
- 2017 Spaces of (In)Security and Development at the Frontier: LAPSSET Project and Lamu Port. *UM-China Conference: Infrastructure, Resource Extraction, and Environmental Sustainability*. Apr. 7 Ann Arbor, MI.
- 2016 Old Ports, New Ports: A Critical Political Ecology of Infrastructure Development in Lamu, Kenya. *Annual Meeting of the African Studies Association*. Dec.1, Washington, DC.
- 2016 New Securities and Technologies of Surveillance: The Case of Livestock Grazing in African Protected Areas. *Science / Technology / Security: Challenges to Global Governance? Global Governance Institute, University College London*, Jun. 20, London, United Kingdom.
- 2015 \* From Enclosure to Commons, or “Where will the Cows Go”? State Protected Areas, Private Conservancies, and the New Pastoral Commons in Kenya. Session on African Environment and Development II: The Commons and the State. *Annual Meeting of the African Studies Association*. Nov. 20, San Diego, CA.
- 2015 \*+ Degrees of Freedom and the Politics of Arid Rangelands: Enclosures and Inference in the Geographies of Science (with G. Allington). Session on Geographies of Science. *Annual Meeting of the Association of American Geographers*. Apr. 21, Chicago, IL.
- 2014 \*+ Mobilities of Pastoral Cattle - Does Herd Size Matter? Recent Case Study Evidence Combining MODIS NDVI and GPS Collars. Session on Geographies of Mobility VI: Methodological Developments. *Annual Meeting of the Association of American Geographers*. Apr. 8, Tampa, FL.
- 2013 \*+ Competing Spaces of Extraction: Protected Areas, Pastoralism and Capital Accumulation by Dispossession in Dryland Regions of East Africa. Session on Politics of Dispossession: Contested Resources and the Production of Place in Africa. *Annual Meeting of the Anthropological Association of America*. Nov. 21, Chicago, IL
- 2013 Unintended Consequences of Technology in Development: A Cross-Sectional Analysis. Poster session MCubed Research Symposium. *The University of Michigan*. Nov. 15, Ann Arbor, MI.
- 2013 \*+ The Political Ecology of Livestock Incursions into Protected Areas: Technology, Place and Socio-Ecological Dynamics in East Africa. Organized session on ‘Conservation and Coloniality: Postcolonial Environments and Decolonial Developments 1’. *Dimensions of Political Ecology: conference on nature/society*. Mar. 1, Lexington, KY.
- 2012 \*+ Neoliberal Discourses of Conservation and Development in Kenya’s Arid Lands. Organized session on ‘Humanitarianism and Human Rights: Conceptualizing Development, Security, and Justice in Africa.’ *Annual Meeting of the African Studies Association*. Dec. 1, Philadelphia, PA.
- 2012 \*+Clarifying Competition: The Case of Wildlife and Pastoral Livestock in East Africa.

- Organized session on 'Animal Geographies 1: Geographies of Wildlife'. *Annual Meeting of the Association of American Geographers*. Feb. 27, New York, NY.
- 2011 \*+Herding by cell phone: Technology, social networks and the transformation of pastoral herding in East Africa. Organized session on 'Human Resiliency for Sustainability'. *Annual Meeting of the African Studies Association*. Nov.17, Washington, DC.
- 2011 \*+Scaling thresholds, pastoral livestock mobility, and seasonal access to forage resources in semi-arid West Africa. Space-Time Symposium on 'Species Movement & Migration Modeling'. *Annual Meeting of the Association of American Geographers*. Apr. 19, Seattle, WA.
- 2010 \*+Place, identity and the commodification of nature: the making of conservation conflicts in East Africa. Organized session on 'Dimensions of conflict, environmental change and resources management. *Annual Meeting of the African Studies Association*. Nov. 15, San Francisco, CA.
- 2010 \*+ The trouble with 'savanna', particularly in Africa (with Chris Duvall). *17<sup>th</sup> Annual Mini-Conference on Critical Geography*. Nov. 15, Milwaukee, WI.
- 2010 \*+ Pastoral resource access and utilization in southern Kenya. *Annual Meeting of the Association of American Geographers*. Apr. 10, Washington, DC.
- 2009 \*+ Underneath the Acacia tree: disseminating nature-society research amongst Maasai pastoralists in Kenya. *Annual Meeting of the Association of American Geographers*. Mar. 4, Las Vegas, NV.
- 2008 \*+ Spatio-temporal variability of Maasai pastoral cattle activities on vegetation in Kenya. *Annual Meeting of the Association of American Geographers*. Apr. 19 Boston, MA.
- 2007 \*+ Grazing on the edge: Pastoral livestock movements and the etiology of grazing conflicts around protected areas in southern Kenya. *Annual Meeting of the Association of American Geographers*. Apr. 4, San Francisco, CA.
- 2002 \*+ Seasonal factors influencing livestock herding strategies in the Talek area, Narok District, Kenya: A political ecology perspective. *Annual Meeting of the Association of American Geographers*. Mar. 5, Los Angeles, CA.
- 1999 \*+Examining error, accuracy, and precision using Global Positioning Systems and Digital Ortho Quarter Quads. *Southeast Division of the Association of American Geographers*. Nov. 4, Memphis, TN.
- 1998 \*+Land use competition and conflict in Kenya's Amboseli basin. *Southeast Division of the Association of American Geographers*. Nov. 6, Birmingham, AL.

### **INTERNAL INVITED LECTURES AND SEMINARS** (\*†student selected)

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- 2019 Environmental Geopolitics and the Ivory Poaching Crisis. "Environmental Politics" (AAS 432), *University of Michigan*, Nov. 19.
- 2017 People and Protected Areas in East Africa: Past, Present, and What Future? "Environmental Governance and Decision-Making" (EAS 510), *University of Michigan*, Dec. 4.
- 2017 The Political Ecology of Livestock Incursions into Protected Areas. Department of Afro-American and African Studies (DAAS). "Museums, Heritage, and National Parks in Africa" (AAS 206) *University of Michigan*, Feb. 21.
- 2016 Neoliberalism, Conservation, and Dispossession in Kenya's Arid Lands. Department of Afro-American and African Studies (DAAS) Pro-seminar in African Studies. *University of*

- Michigan*, Feb. 10.
- 2015 Gender, Environment & Development: Evidence from Gambia and Kenya. Transnational Human Rights Formations and New Sovereignties, *University of Michigan*, Oct. 27
- 2015 Conservation, Human Rights and Dispossession in Kenya's Arid Lands. Introduction to Environmental Politics: Race, Class and Gender, *University of Michigan* Oct. 27
- 2015 †The Continuing Age of Environmental Securitization: Ivory, Poaching, and Terrorism. Conservation Ecology Seminar Series. *University of Michigan* Oct. 1
- 2014 Conservation, Human Rights and Dispossession in Kenya's Arid Lands. Afro-American and African Studies Department. *University of Michigan* Nov. 11
- 2014 Unintended Consequences of Technology in Development: A Cross-Sectional Analysis (with O. Adunbi and J. Pal). MCubed Research Symposium (Cubes in the Spotlight). *University of Michigan* Oct. 9
- 2014 †The Rise of Private Conservation: Conservation Success Story or More of the Same? Conservation Ecology Seminar Series. *University of Michigan* Sept. 26
- 2014 The Politics and Ecology of Incursions in Protected Areas. *Michigan State University, Department of Zoology* (Behavioral Ecology of African Mammals Class). Maasai Mara, Kenya, May 28
- 2013 Cell and Self: New Directions for Social Science Research. *Annual Institute for Social Science Research* Ann Arbor, MI, Apr. 27
- 2013 †Alternative Perspectives on Ecosystems Services. Student Research Group on Landscape and Inequality Working Group, School of Natural Resources and Environment, *University of Michigan*, Mar. 19
- 2013 Conservation, Human Rights and Dispossession: Transnational Actors and Local Activisms in Kenya's Arid Lands. International Studies Advanced Seminar on Humanitarianism and Human Rights "Fighting with Human Rights" *University of Michigan*, Mar. 14
- 2013 Neoliberalism, Conservation, and Dispossession in Kenya's Arid Lands. Department of Afro-American and African Studies (DAAS) Pro-seminar in African Studies. *University of Michigan*, Feb. 20
- 2012 People, parks and the social construction of nature in East Africa. Alumni Association of the *University of Michigan*, Feb. 17
- 2011 Clarifying the Competing Narratives of Environmental Change around Protected Areas in East Africa: Recent Evidence from the Maasai Mara, Kenya. African Studies Center, *University of Wisconsin, Madison*, Mar. 30
- 2010 Grazing on the Edge: Pastoralism, Protected Areas and Environmental Change in Southern Kenya. School of Natural Resources and the Environment, *University of Michigan*, Dec. 9
- 2009 Identity, Power, and Conflict: Conservation Abuses and Essentialist 'Nature' In The East African Rangelands. Department of the Geography *University of Wisconsin, Madison* Nov 6
- 2007 Data collection, structuring, and statistical analyses. Graduate Seminar in Research Design (GEO 886). *Michigan State University*, Spring 2007
- 2006 Conservation and development in four parts: examples from southern Kenya. Interdisciplinary Studies in Social Science: Africa perspectives (ISS 330A). *Michigan State*

- University, Fall 2006*
- 2006 Pastoralism, overgrazing, and conservation: dialogues, debates, and ways forward. Behavioral Ecology of African Mammals (Study abroad course in Kenya). *Michigan State University, Summer 2006*
- 2005 Here be dragons: demystifying the Dark Continent and the black man's burden. World regional geography (GEO 204). *Michigan State University, Spring 2005*
- 2004 Roleplaying simulations to understand decision-making strategies of conservation and development. Geography of Environment and Development (GEO 492). *Michigan State University, Fall 2004*
- 2004 Understanding human-environment relationships in East Africa using geospatial technologies. Introduction to Geographic Information Systems (GEO 221). *Michigan State University, Fall 2004*
- 2004 People, parks and development in East Africa in four parts. Interdisciplinary Studies in Social Science: Africa perspectives (ISS 330A). *Michigan State University, Fall 2004*
- 2000 Competition and conflict around national parks in Kenya. Geography of Africa (GEO 338). *Michigan State University, Fall 2000*

## **PANELS & ORGANIZED WORKSHOPS** (†organized, \*invited)

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- 2021 \* Panel Workshop for the *National Academies* on "Advancing a Systems Approach to Studying the Earth: A Strategy for the National Science Foundation" 19 January
- 2019 Panel Discussion on the film "Last Animals" *Michigan Theater*. Ann Arbor, MI 21 June
- 2018 Drylands and "New" Accumulations of Wealth. Second Biennial Conference of the Political Ecology Network (POLLEN) *Oslo and Akershus University College*, Oslo, Norway, 20-22 June
- 2017 \*China in Africa: Environment, Sustainability, and Resource Extraction. *University of Michigan*, Ann Arbor, April 12-14
- 2015 \* Implementing Conservation. Workshop on the Social Dimensions of Conservation in Africa. *Ethiopian Biodiversity Institute*, Addis Ababa, Ethiopia, Nov. 29 – Dec. 9.
- 2015 \* Health and Environment V: A Panel Discussion on Future Directions. Invited Panelist at the *Annual Meeting of the Association of American Geographers*, Chicago, IL. Apr. 24.
- 2012 \* Preparing for postdocs and faculty positions. Guest panel for Graham Doctoral Fellowship Students, *Graham Environmental Sustainability Institute University of Michigan* Nov. 27.
- 2012 \* Beyond the Ph.D. – Next Steps. Guest Panel for Ph.D. Students. *School of Natural Resources and Environment, University of Michigan*, Nov. 20.
- 2012 \* Animal Geographies V: Animating Studies: Qualitative Methodologies and the Question of the Animal. Panelist at the *Annual Meeting of the Association of American Geographers*, New York, NY, Feb. 27.
- 2012 \* Wangari Maathai: Environmental Justice and the Contributions of an Activists' Life. Panelist *Annual Meeting of the Association of American Geographers*, New York, NY Feb. 28.
- 2010 † People, livestock and the environment I and II. Co-organizer of a special session at the *Annual Meeting of the Association of American Geographers*, Washington DC, Apr. 14.
- 2009 † Demystifying the post-doc: A workshop for graduate students. Internal workshop organized for the *Department of Geography, University of Wisconsin, Madison*, Oct. 15.

- 2009 \* The geography of pastoral mobility: recent evidence from the Maasai Mara National Reserve and implications for Mara conservancies. Panelist at the *Maasai Mara Conservancies Planning Workshop*. Koiyaki Guiding School, Kenya, Jul. 21 -22.
- 2009 \* Linking broad assessments of environmental change with field research on local resource use, values, and decision-making. Panelist/discussant at the *Integrating geospatial and field-based science to assess biodiversity conservation: A special forum of women research leaders*. Land Tenure Center, University of Wisconsin, Madison, Apr. 3.
- 2008 \* Environment and development: challenges in the field. Panelist at the *5<sup>th</sup> Annual Critical Geography Conference*. Ohio University, Athens, OH, Oct. 3 – 4.
- 2008 \* Dynamic ecological simulation model of tsetse transmitted trypanosomes in Kenya, under NIH Funding to *Michigan State University, Center for Global Change and Earth Observations* Nairobi, Kenya and East Lansing, MI: Apr.21 – 22.
- 2007 \* The Institute for Teaching and Mentoring. Participant at the *Annual Meeting of the Compact for Faculty Diversity*. Arlington, VA, Oct. 24 – 28.
- 2007 \* Fieldwork: physical and psychological challenges. Panelist at a special session at the *Annual Meeting of the Association of American Geographers*, San Francisco, CA, Apr. 19.
- 2007 \* Building geography graduate student community: resources, tools, and strategies. Panelist at a special session at *Annual Meeting of the Association of American Geographers*, San Francisco, CA, Apr. 19.
- 2007 \* Positionality: differences of gender, race, ethnicity, and class. *Gender, Justice and Environmental Change: Methods and Application*. Panelist at an organized program at Michigan State University, East Lansing, MI, Apr. 12.
- 2005 \* The Capabilities Approach To Poverty Reduction. *International Conference and Workshop on Ethics and Development* organized the program at Michigan State University, Apr. 11-13.
- 2004 \* Positionality: differences of gender, race, ethnicity, and class. *Gender, Justice and Environmental Change: Methods and Application*. Panelist at an organized program at Michigan State University, East Lansing, MI, Apr. 12.
- 2003 \* Understanding the state of the Mara- Serengeti Ecosystem. Panelist at the *Maasai Mara Synthesis Workshop. International Livestock Research Institute*, Nairobi, Kenya, Nov. 14.
- 2002 \* Fieldwork: the unspoken dimensions. Panelist at the *Women and International Development (WID)* program of the International Studies and Programs at Michigan State University, East Lansing, MI, Apr. 18.

**TEACHING EXPERIENCE** (\*Bold most recent)

	<i>Course</i>	<i>Institution</i>	<i>Semesters Taught</i>	<i>Students/ semester</i>
Primary Instructor	EAS 630: Preparing for International Fieldwork	Univ. of Michigan	2	37
	EAS 542: Conservation & Development	Univ. of Michigan	5	11-41
	NRE677.123: Advanced Seminar: Poaching, Ivory & the War for Biodiversity	Univ. of Michigan	1	9

	NRE 677.123: Advanced Seminar: Climate Change & Conflict	Univ. of Michigan	4	10
	NRE 510: Environmental Governance & Decision Making	Univ. of Michigan	4	145
	ENVIRON 300: Conservation & Development in Cultural Landscapes: Fieldwork in Kenya	Univ. of Michigan & Univ. of Nairobi	2	15
	EAS 577: Political Ecology, Environmental Security & Conflict	Univ. of Michigan	6	33
	GEO 139: Resources and People	Univ. of Wisconsin, Madison	1	87
	GEO 338: Geography of Africa	Michigan State Univ.	1	50
	GEO 204: World Reg. Geography	Michigan State Univ.	3	100+
	Wildlife Ecology and Conservation	School for International Training, Tanzania	1	22
Lab Instructor	GEO 221: Intro. to GIS	Michigan State Univ.	1	30
	GEO 424: Adv. Remote Sensing	Michigan State Univ.	1	26
	GEO 425: Adv. GIS	Michigan State Univ.	1	16
Teaching Assistant	GEO 463: Quantitative Methods	Michigan State Univ.	1	40
	GEO 336: Geography of Europe	Michigan State Univ.	1	45
	GEO 333: Geography of Michigan	Michigan State Univ.	1	100+
	GEO 113: Economic Geography	Michigan State Univ.	1	54
	ISS 310: People & the Environment	Michigan State Univ.	2	100+
	ISS 315: Global Diversity & Interdependence	Michigan State Univ.	1	100+
	GEO 210: Intro. to Physical Geography	Eastern Kentucky Univ.	3	25
	GEO 353: Geo. Info. Systems	Eastern Kentucky Univ.	2	24

## TEACHING EVALUATIONS

Year	Semester	Course Number	Course Title	Average Score*
2022	Winter	EAS 677.123	*Critical Environmental Geopolitics	5.00/5.00
2021	Fall	EAS 542	*Conservation and Development	4.90/5.00
2020	Fall	EAS 577	*Political Ecology I: Environmental Violence	4.80/5.00
2020	Fall	EAS 542	*Conservation & Development	4.80/5.00
2020	Winter	EAS 630	*Preparing for International Fieldwork	4.90/5.00
2019	Fall	EAS 542	*Conservation & Development	4.90/5.00
2019	Fall	EAS 577	*Political Ecology, Environmental Security & Conflict	4.90/5.00
2018	Winter	EAS 630	*Preparing for International Fieldwork	4.90/5.00
2017	Fall	EAS 577	*Political Ecology, Environmental Security & Conflict	4.90/5.00
2017	Fall	NRE 542	*Conservation and Development	4.88/5.00
2017	Winter	NRE 677.123	*Seminar: Climate Change & Conflict	4.96/5.00
2016	Fall	NRE 542	*Conservation and Development	4.86/5.00

2016	Fall	NRE 577	*Political Ecology, Environmental Security & Conflict	4.75/5.00
2015	Fall	NRE 510A	*Environmental Governance & Decision Making	4.41/5.00
2015	Fall	NRE 677.123	*Seminar: Poaching, Technology, and War	4.88/5.00
2014	Fall	NRE 677.123	*Seminar: Climate Change & Conflict	4.90/5.00
2014	Fall	NRE 510A	*Environmental Governance & Decision Making	4.06/5.00
2013	Fall	NRE 577	*Political Ecology, Environmental Security & Conflict	4.88/5.00
2013	Fall	NRE 677.123	*Seminar: Climate Change & Conflict	4.88/5.00
2013	Fall	NRE 510A	*Environmental Governance & Decision Making	4.62/5.00
2013	Winter	AAS 468	*Conservation & Development in Cultural Landscapes	5.00/5.00
2012	Fall	NRE 510A	*Environmental Governance & Decision Making	4.12/5.00
2012	Fall	NRE 577	*Political Ecology, Environmental Security & Conflict	4.92/5.00
2012	Winter	ENVIR 300	*Conservation & Development in Cultural Landscapes	4.75/5.00
2011	Fall	NRE 577	*Political Ecology, Environmental Security & Conflict	4.73/5.00
2011	Spring	GEO 139	**Resources and People	4.15/5.00
2007	Fall	GEO 338	***Geography of Africa	4.56/5.00
2007	Spring	GEO 424	***Advanced Remote Sensing	3.48/5.00
2004	Spring	GEO 425	***Advanced Geographic Information Systems	3.81/5.00
2004	Fall	GEO 221	***Introduction to Geographic Information Systems	4.15/5.00

\*\*\*Michigan State University

\*\*University of Wisconsin, Madison

\*University of Michigan

\* Scores are the average of between 6 and 23 questions related to course content, organization, explanation, and instructor effectiveness (5 reflects higher scores, 1 reflects lower scores)

## ONLINE MOOCs

- 2021 **Butt, B.** Conservation and Sustainable Development. MOOC on Sustainability and Development, part of the SEAS Masters Track Certificate and Academic Innovation. Available online at [www.coursera.com](http://www.coursera.com) Approximately 15,000 learners and 3,000 completed
- 2020 **Butt, B.** Biodiversity Loss, and Ecosystem Degradation. MOOC on Sustainability and Development through Academic Innovation, University of Michigan. Available online at: [www.coursera.com](http://www.coursera.com)

## TEACHING GRANTS

- 2014 *School of Natural Resources and Environment, University of Michigan*  
Dean's Discretionary Grant on Alternative Pedagogies for Understanding Differences in Environmental Security Narratives, US\$9,000
- 2013 *School of Natural Resources and Environment, University of Michigan*  
Dean's Discretionary Grant on Alternative Pedagogies for Understanding Differences in Environmental Security Narratives, US\$5,000

## TEACHING\* & LEADERSHIP SEMINARS ATTENDED

\*All teaching seminars organized and attended are through the University of Michigan's Center for Research, Teaching, and Learning.

- 2022 *Effective Group Work*  
Approaches to collaborative group work and consider design and assessment strategies that

- can help ensure that all students are engaged, included, and successful in groups.
- 2022 *Deeper Dive into Trauma-Informed Pedagogy and Healing-Centered Engagement*  
Explores strategies for understanding, recognizing, and responding to the effects of various types of trauma in the classroom
- 2021 *Equity in Higher Education: What's Assessment Got to do With It?*  
Identify processes from data collection to interpretation and reporting for building equity-minded assessment practices in programs and courses.
- 2020 *Principles & Practices of Anti-Racist Pedagogy*  
Framework for anti-racist teaching (which includes a definition and 6 pedagogical principles) and examples of strategies to consider for implementation in courses.
- 2019 *Mentoring Plans Workshops*  
Enhance the mentoring relationship between the Ph.D./MS student and research faculty mentor or advisor.
- 2019 *Applying Principles of Transparency in Classroom Discussions.*  
Build upon key research findings of the beneficial effects of transparency for student learning.
- 2018 *Unconscious Bias in Everyday Life*  
Examine how unconscious bias can affect one's perceptions, decisions, and interactions.
- 2017 *Faculty Recruitment Workshops*  
The Committee on Strategies and Tactics for Recruiting to Improve Diversity and Excellence for faculty members with an important role in faculty recruitment efforts (e.g., search committee chairs and members)
- 2017 *Leadership and Integration in Faculty Transitions*  
Faculty career life cycle and its transitions and the Associate Professor role more specifically.
- 2017 *Campus Climate in Your Classroom: Responding to Student Micro-aggressions*  
Develop skills for preventing, identifying, and responding to identity-based micro-aggressions among students in classrooms.
- 2017 *Implementing Inclusive Teaching Principles in Your Courses*  
Experience and reflect upon teaching strategies for helping students engage and learn across their differences.
- 2016 *Making the Most of Hot Moments in the Classroom*  
This workshop explores how to take advantage of 'hot moments' - a sudden eruption of tension, conflict, or big emotion during class.
- 2016 *Gameful Pedagogy: What Is It and How Might You Use It?*  
Gameful learning pedagogy is a critical way in which student learning can occur.
- 2015 *How Can Emerging Digital Scholarship Tools Inspire Your Teaching?*  
Tools to enhance digital scholarship within the social sciences through tools such as Twitter analysis, multimodal scholarship, data visualization, data literacy, and text analysis.
- 2014 *Teaching with Technology: How Can I Include All Students?*  
This approach to teaching involves the technologies to reach students with disabilities.
- 2013 *Teaching in a "Flipped Classroom"*  
Strategies to shift students' initial exposure to content from the lecture hall to the outside of the classroom.

## STUDENT EXPERIENTIAL LEARNING ACTIVITIES

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- 2015 Co-taught eleven-day field training course in Ethiopia on “[Conservation Implementation](#)” as part of the [Biodiversity Informatics Training Curriculum](#) (funded through JRS Biodiversity Foundation). Training of 18 African professionals from Malawi, Benin, Kenya, Ethiopia, Cameroon, Egypt, Uganda, Kenya, and Liberia.
- 2014 Field trip with [nine University of Michigan graduate students for NRE 677.123 to meet policymakers at the United Nations Environment Program](#) (Regional Office for North America), Woodrow Wilson Center, Environmental Law Institute, World Wildlife Fund, Stimson Center, Forest Trends, and other organizations in Washington DC on the topic of climate change and conflict
- 2013 Field trip with seven University of Michigan graduate students for NRE 677.123 to meet policymakers at the United Nations Environment Program (Regional Office for North America), Woodrow Wilson Center, Environmental Law Institute, World Wildlife Fund, and other organizations in Washington DC on the topic of climate change and conflict.
- 2013 Summer field class (AAS 468) for 12 University of Michigan undergraduates in Kenya on the topic of conservation and development in cultural landscapes in Narok and Laikipia Counties
- 2012 Summer field class (ENVIRO 300) for 16 University of Michigan undergraduates in Kenya on the topic of conservation and development in cultural landscapes in Narok and Laikipia Counties

## PEDAGOGICAL MENTORING

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- 2012 – Present *Director*  
Environmental Geopolitics Research Group, School for Environment and Sustainability, University of Michigan
- 2010 *Teaching Mentee*  
Culture and the Environment (GEO 537), Department of Geography, University of Wisconsin, Madison: September – December 2010

## ADVISING (S - completed), MENTORING & SUPERVISION

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### Postdocs

- 2022 Wenjing Xu (PhD, University of California, Berkeley)
- 2019<sup>S</sup> John Mullen (currently faculty, Rowan University)
- 2019<sup>S</sup> Philile Mbatha (currently faculty, University of Cape Town)

### Ph.D. Committee Chair\* (\*At University of Michigan, unless otherwise noted)

- 2020 Ember McCoy (Environmental Justice Award for Outstanding Scholarship)
- 2019 Marlotte de Jong (Fulbright Award, Environmental Justice Award for Outstanding Scholarship)

### Ph.D. Committee Member\* (\*At School for Environment and Sustainability, University of Michigan)

- 2022 Shahram Sarwar Abbas

2022 K. Malulani Castro  
 2018 Kristen Connor (Anthropology & History)  
 2017 §Katherine Browne (Stockholm Environment Institute)  
 2015 §Hayden Hedman (AAAS Science and Technology Policy Fellow)  
 2013 §Carolina Simao Roe-Raymond (Princeton University)  
 2012 §Joshua Cousins (Faculty, State University of New York)  
 2011 §Baruani Mshale (Twaweza East Africa)

**MSc Thesis Primary Advisor**

2022 Meghna Patnaik  
 2021 §Roshan Krishnan (Amazon Watch)  
 2018 §Saachi Kuwayama (Environmental Defense Fund)  
 2018 §Marlotte De Jong (PhD student, UM SEAS)  
 2016 §Claire Poelking (MacArthur Foundation)  
 2016 §Amanda Kaminsky (PhD student, UM Anthropology)  
 2014 §Cara Steger (Postdoc, Cornell University)

**MSc Masters Practicum Advisor**

2022 Jessica Silber-Bryne  
 2022 §Evan Klasky (PhD student, University of Minnesota)

**MSc Thesis Committee Member**

2013 §Anna Peschel (Don Zak, Advisor)  
 2013 §Wan-Chih Cheng (Johannes Foufopoulos, Advisor)  
 2013 §Erin O'Brien (Johannes Foufopoulos, Advisor)  
 2011 §David O'Connor (Johannes Foufopoulos, Advisor)

**Student Study Supervisor – MSc**

2022 Maryam Syed  
 2019 §Isabella Bledsoe  
 2019 §Danielle Treibwasser  
 2019 §Bryan Redden  
 2018 §Nicholas Boucher  
 2016 §Priscila Papias  
 2015 §Izabela Osiniecka  
 2014 §Katherine Gregory  
 2013 §Meghan Cornwall

**Student Study Supervisor – BS/BA**

2022 Ella Hook (NSF Project)  
 2020 §Tiffany Raetzl  
 2019 §Hailey Pantaleo  
 2015 §Emily Gleichert (Independent Research Experience)  
 2014 – 2015 §Syeda Zaynab Mahmood (Undergraduate Research Opportunities Program Scholar)

2014 §Ellen Anderson (MCUBE Project)  
 2013 – 2015 §Audrey Chitkara (MCUBE Project)  
 2013 – 2014 §Cordi Craig (MCUBE Project)  
 2012 - 2013 §Zachary Petroni (Ford School of Public Policy) – Winner of the inaugural 2013-2014 Wallenburg Fellowship in Human Rights  
 2012-2013 §Jordan McHugh (Undergraduate Research Opportunities Program Scholar)  
 2012 §Tae Yoon (Engineering)  
 2011 §Meghan Cole (PiTE)

### Fieldwork Supervisor

2018 – 2022 Marlotte De Jong (MS '19) – Fieldwork in various counties, Kenya  
 2016 Amanda Kaminsky (MS '17) – Fieldwork in Nairobi and Narok Counties, Kenya  
 2016 Claire Poelking (MS '17) – Fieldwork in Narok County, Kenya  
 2014 Jenny Cooper (MS/MBA '15) – Fieldwork in Narok County, Kenya  
 2013 Zachary Petroni (BA'13) – Fieldwork in Kilifi and Narok Counties, Kenya  
 2013 Cara Steger (MS'14) – Fieldwork in Narok County, Kenya  
 2012 Olivia Kramer (BS'12) – Fieldwork in Narok County, Kenya

### RESEARCH GRANT PROPOSAL REVIEWER (> 100 proposals)

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2018 – Present Senior Advisory Panel National Science Foundation  
 2011 – Present Ad-hoc Reviewer, National Science Foundation (multiple directorates & competitions)  
 2019 – Present Ad-hoc Review, Swiss National Science Foundation  
 2019 – Present Ad-hoc Reviewer, American Philosophical Society  
 2016 – Present Ad-hoc Reviewer - National Geographic Society  
 2017 – Present Ad-hoc Reviewer - University of Michigan, Office of Research

### MANUSCRIPT REVIEWER (49 Different Journals)

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Human Ecology	Biological Conservation
Geoforum	Conservation Biology
Political Geography	Animal Conservation
The Geographical Review	BioScience
Rangeland Ecology and Management	Frontiers in Ecology and Evolution
Journal of Arid Environments	Oryx
Landscape and Urban Planning	Conservation and Society
Land Use Policy	Editorial Board and Review Editor - Conservation
Africa: Journal of the International Africa Institute	(specialty section of Frontiers in Ecology and
World Development	Evolution)
PLoS One	Food Policy
Development and Change	Organization & Environment
Land Degradation & Development	Information Technologies & International
Remote Sensing Applications: Society and	Development
Environment	Journal of Political Ecology
Remote Sensing of Environment	Disasters
Remote Sensing	Article Review Editor - Sage Open
International Journal of Applied Earth Observation	McGill International Journal of Sustainable

and Geoinformation  
Globalization and Health  
Social Science & Medicine  
BMC Public Health  
BMC Veterinary Research  
Emerging Infectious Diseases  
Women and International Development Forum  
Environment, Development, and Sustainability  
Forum for Development Studies  
Quaternary International

Development Law & Policy  
Environmental Management  
Society & Natural Resources  
Population and Environment  
Pastoralism: Research, Policy, Practice  
Journal of Environmental Management  
Ruminant Research  
Wildlife Research  
Journal of Political Ecology

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## BOOK PROPOSAL REVIEWER

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2021 – Present Routledge Press  
2019 – Present Springer Publishing  
2020 – Present Taylor and Francis Publishing

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## EDITORIAL BOARDS

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2019 – Present Human Ecology

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## TENURE AND PROMOTION PORTFOLIO REVIEWS

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University of North Carolina, Chappell Hill

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## SERVICE ACTIVITIES (Internal\*)

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\* At the University of Michigan unless otherwise noted.

2022 *Provosts Anti-Racism Hiring Committee, Office of the Provost*  
2020 – 2021 *African Social Research Initiative (ASRI) Steering Committee, African Studies Center*  
2019 – 2021 *Faculty Senate Representative, School for Environment and Sustainability*  
2019 – 2020 *Diversity, Equity and Inclusion Committee, School for Environment and Sustainability*  
2019 – 2020 *Ph.D. Admissions Committee, School for Environment and Sustainability*  
2018 – 2019 *Faculty Search in Geovisualization (Chair), School for Environment and Sustainability,*  
2017, 2014, & *Fulbright Selection Committee (Member) for the University of Michigan*  
2012  
2017 - 2018 *Grant Application Reviewer for the International Institute's Student Fellowship Awards*  
2017 *Grant Application Reviewer for ENVOYs Diversity Fellowships at the School of Natural Resources and Environment*  
2016 – 2018 & *Field of Study Coordinator for the Environmental Informatics track at the School of Natural Resources & Environment*  
2012 – 2013  
2016 *Faculty Search Committee (Member) for a Professor of Environmental Practice (Fisheries Science and Management)*  
2016 *Faculty Search Committee (Co-Chair) for a Visiting Assistant Professor (Environmental Informatics)*  
2014 *Faculty Representative (Member) for Concur Process Mapping as part of Administrative Service Transformation. School of Natural Resources and University of Michigan*  
2013 – 2015 *Global Engagement Committee (Member) for the School of Natural Resources & Environment*  
2013 – 2014 *Michigan Society of Fellows (Reviewer) Applications to School of Natural Resources &*

	Environment
2012 – 2015	<i>Research Committee</i> (Member) for the School of Natural Resources & Environment, University of Michigan
2012 – 2013	<i>Field of Study Coordinator</i> for the Environmental Informatics track at the School of Natural Resources & Environment, University of Michigan
2013	<i>Faculty Search Committee</i> (Member) for a targeted opportunity search for the School of Natural Resources & Environment, University of Michigan
2006 – 2007	<i>Committee member</i> for the GIS and cartography new faculty hire at the department of geography, Michigan State University
2003 – 2004	<i>Committee member</i> and graduate student representative on the self-study document for the external review of the department of geography, Michigan State University
2002 – 2003	<i>Graduate student representative</i> to the faculty of the department of geography, Michigan State University
2000 – 2002	<i>Departmental representative</i> to the council of graduate students (COGS) Michigan State University
1997 – 1998	<i>Student representative</i> to the department of geography and planning, curriculum and academic practices committee, Eastern Kentucky University
1997 – 1999	<i>President of Geography/Travel Club</i> Eastern Kentucky University

## **SERVICE ACTIVITIES (External)**

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2015	<i>Environment Program</i> (Chair) 58 <sup>th</sup> Annual Meeting of the African Studies Association. November 19-22, San Diego CA.
2013	<i>Alumni Association Travel</i> (Representative) and lecturer for the Southern Africa trip organized by the University of Michigan.
2012	<i>Alumni Association Travel</i> (Representative) and lecturer for the Tanzania safari trip organized by the University of Michigan.
2012 – 2013	<i>Science Advisory Committee</i> (Member) for the Mpala Research Center, Kenya. University of Michigan Representative
2011	<i>Advisor</i> for an exhibition of Maasai culture and livelihood practices for the Seneca Park Zoo, Rochester, NY
2009 – 2010	<i>Committee member</i> for the Africa Specialty Group (ASG) of the Association of American Geographers (AAG) student paper award

## **MEDIA ACTIVITIES**

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2017	NPR's Goats and Sodas Blog about Development: <a href="#">Hunger and Famine in African Drylands</a> Posted June 13, 2017
2016	SNRE Blog: ' <a href="#">Bilal Butt, Ming Xu receives NSF CAREER awards</a> '. Article about recent NSF CAREER Grant.
2016	WCBN Radio Interview for "Its Hot in Here" – a weekly radio show on environmental issues on ' <a href="#">The Power Is Yours! Popular Environmental Narratives and the Legacy of Captain Planet</a> '. Airdate February 5, 2016, 88.9 FM. Air Date Feb 5, 2016
2014	BBC Radio 4: Invited expert interview for BBC Radio 4's show "Shared Planet" on ' <a href="#">Wildlife and Drought in East Africa</a> '. Airdate December 2, 2014 (Monty Don, Producer)
2014	Newsweek Magazine: Interviewed for a story on the <i>Politics of National Park Management in the Maasai Mara, Kenya</i> . 8 November 2014. Report not published (Elijah Wolfson, Reporter)

- 2013 SNRE Blog: '[Beyond the Classroom: A Conversation with UNEP](#)'. Article about an innovative pedagogical activity with graduate students, where we visited UNEP (United Nations Environment Programme) to discuss climate change and conflict. 21 November 2013.
- 2013 Alliances: "[A conversation with Dr. Bilal Butt](#)". Interview with Aneeth Hundle for 'Alliances: Newsletter of the African Studies Center'. Winter 2013 No. 5, page 10
- 2013 University Record: Quote for an interview regarding Zachary Petroni – a student of mine who won the [inaugural Wallenberg fellowship](#). Story printed on May 6, 2013.
- 2012 Stewards Magazine: Interview for a story on SNRE SEED grant funding for '*Science, practice and public participation: Natural Resource Monitoring in African Protected Areas*'. Stewards are the newsletter for the School of Natural Resources and Environment at the University of Michigan
- 2011 WCBN Radio: Hour-long radio interview for WCBN's environmental talk show 88.9 FM on '[Environment, Information and Sustainable Development](#)'. Airdate November 7, 2011.
- 2011 American Public Media: Background research for Marketplace Radio on *Famine and Drought Coping Strategies* in the Horn of Africa (S. Tong, reporter). Report not aired 2011.
- 2009 CBS 60 Minutes: Background research for 60 Minutes on '[Threats to the Great Migration](#)' (R. Peterson, Producer). Airdate Oct 04, 2009.
- 2009 National Geographic: Background research for National Geographic News on '[Wildlife and Drought in East Africa](#)' (N. Wadhams, Reporter). Press date Sep 21, 2009.

## RESEARCH COLLABORATORS & INSTITUTIONS

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- Individuals: Omolade Adunbi (UMich), Matthew Turner (UW-Madison), Joseph Muriithi (Kenyatta University), Arun Agrawal (UMich)
- Institutions: International Livestock Research Institute (Kenya), Olare-Motorogi Conservancy, Naiboisho Conservancy (Kenya), Maasai Mara Wildlife Conservancies Association (Kenya), Kenyatta University (Kenya)

## ACADEMIC MENTORS

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- Postdoctoral M. D. Turner (Advisor, UW - Madison)
- Doctoral A. WinklerPrins (Advisor, Mich. State/Johns Hopkins), A. Shortridge (Mich. State), C. Duvall (Univ. of New Mexico), W. Derman (Mich. State/NORAGRIC), and R. Reid (International Livestock Research Institute/Colo. State Univ.)
- Masters D. Campbell (deceased), A. WinklerPrins, B. Pigozzi (All Mich. State)
- Bachelors D. Zurick (EKU)

## PROFESSIONAL MEMBERSHIPS

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- Association of American Geographers (AAG)
- Anthropological Association of America (AAA)
- African Studies Association (ASA)
- Gamma Theta Upsilon (Epsilon Nu Chapter)

## LANGUAGE PROFICIENCIES

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English	Native proficiency
Kiswahili	Native proficiency
Punjabi	Native proficiency
Urdu	Basic
Arabic	Basic
Maasai	Basic

## **PHOTOGRAPHY**

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2013            Joint 1<sup>st</sup> place SNRE photo contest

Last updated on: 10/14/2022