

Curriculum vitae

TREVON L. FULLER

Center for Tropical Research
Institute of the Environment and Sustainability
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PROFESSIONAL POSITIONS

2017- Assistant Adjunct Professor, Institute of the Environment and Sustainability
2014- Assistant Researcher, Center for Tropical Research, Institute of the Environment
 and Sustainability and Graduate School of Education & Information Sciences,
 University of California, Los Angeles
2009-2014 Postdoctoral Researcher, Center for Tropical Research, Institute of the
 Environment and Sustainability, University of California, Los Angeles

EDUCATION

Ph.D. Ecology, Evolution, and Behavior, University of Texas at Austin, 2009
 (advisor S. Sarkar).
 Title: Area Prioritization for Optimal Conservation Planning.
M.A. Philosophy, University of Texas at Austin, 2004 (advisor S. Sarkar).
B.A. Historical Studies, University of Texas at Dallas, 2001 (advisor V. Worsfold).

GRANTS, DONATIONS & FELLOWSHIPS

Ongoing Grants

Panamerican Health Organization. Mining of Social Indicators and Health Databases to Detect Risk Factors for Cases of Zika Virus Requiring Hospitalization in Brazil. Role: Co-PI with Dr. Jussara Angelo, Oswaldo Cruz Foundation, Rio de Janeiro. \$18,800

California Energy Commission EPIC. Population-level Exposure of Migratory Birds to Impacts of Renewable Energy. Role: Senior personnel, helped write proposal. 1/1/2016-12/31/18. \$599,236

NSF Partnerships for International Research and Education: Mapping Evolutionary Process in the Face of Climate Change: An Integrated Approach to Education and Conservation Prioritization in Central Africa. 01/01/13-12/31/17. Role: Postdoc, helped write proposal. \$4,950,000

Completed Grants

NIH Fogarty International Center. Dynamics of Cross-species Influenza Transmission: an International Collaboration - Cameroon and Egypt. Role: 9/1/10-7/31/12. Role: Postdoc, helped write proposal. \$440,000

NIH Centers of Excellence for Influenza Research and Surveillance (CEIRS). 4/1/12-3/31/14. Role: Postdoc, helped write proposal. \$397,212

NSF Ecology and Evolution of Infectious Diseases. Effects of Avian Migration and Anthropogenic Change on the Distribution and Transmission Risks of Avian Influenza. 1/1/06-12/31/11. Role: Postdoc. \$2,459,400

During my affiliation with UCLA I have written 20 extramural grants to organizations including the Civilian Research and Development Foundation, the Defense Threat Reduction Agency, the Department of Defense Strategic Environmental Research and Development Program, the Gates Foundation, NASA Terrestrial Ecology, NIH R21 Climate Change and Health, NIH R21 Zika Virus (ZIKV) Complications, NIH R25 International and Cooperative Projects, NSF Ecology & Evolution of Infectious Diseases, NSF Macrosystems Biology, NSF Science and Technology Centers, USAID Global Health Challenges, USAID Higher Education Solutions Network, US Egypt Science & Technology Development Fund, US Fish & Wildlife Service International Office Africa Program, and the Wellcome Trust.

Donations

2016

Harris Geospatial/Exelis. I was responsible for securing a donation of a 25-User Lab Pack license for ENVI/IDL for the GIS/Remote Sensing Lab at the UCLA Congo Basin Institute in Yaoundé, Cameroon. \$175,000

2015

ESRI. I was responsible for securing a donation of 16 licenses for a ArcGIS for Desktop Advanced Teaching and Research Lab Kit for the GIS/Remote Sensing Lab at the UCLA Congo Basin Institute. \$914,000

Fellowships

University Continuing Fellowship, University of Texas at Austin, 2008

Marion Elizabeth Eason Endowed Scholarship for the Study of Biology, University of Texas at Austin, 2008

Eugene McDermott Fellowship, University of Texas at Dallas, 1997-2001

TEACHING EXPERIENCE

Biostatistics Workshops using R funded by NSF and NIH

- UCLA Congo Basin Institute, Yaoundé, Cameroon, June 2017
- UCLA Congo Basin Institute, Yaoundé, Cameroon, July 2016
- University of Science & Technology of Masuku, Franceville, Gabon, July 2015
- UCLA Congo Basin Institute, Yaoundé, Cameroon, June 2015
- Solomon Tadeng Muna Foundation, Yaoundé, Cameroon, August 2012
- National Laboratory for Quality Control of Poultry Production, Cairo, February 2012

University of California, Los Angeles

- Field Biology Quarter. Guest Lecturer, Winter 2017
- Field Biology, Mbam Djerem National Park and Ebo Forest, Cameroon, June 2015
- Ecology and Evolutionary Biology 297, SEM 1 - Selected Topics in Ecology and Evolutionary Biology: Center for Tropical Research Journal Club (Guest Lecturer)

University of Texas at Austin

- Biostatistics, Teaching Assistant
- Comparative Animal Physiology, Teaching Assistant

PUBLICATIONS

Technical Report

Smith TB, Beissinger S, Erickson W, Fthenakis V, **Fuller TL**, George L, Ruegg K, Siegel R. 2016. Defining Research Questions and Methodological Approaches for Addressing Potential Impacts of PV Solar Plants on Bird Populations. Avian Solar Working Group Research Panel Report. Sacramento, California. 27 p.

Journal Articles

Accepted pending revisions

Judson SD, LeBreton M, **Fuller TL**, Hoffman RM, Njabo K, Brewer TF, Dibongue E, Diffo J, Feussom Kameni J-M, Loul S, Nchinda GW, Njouom R, Nwobegahay J, Takuo JM, Torimiro JN, Wade A, Smith TB. Translating predictions of zoonotic viruses for policymakers: perspectives from Cameroon. *EcoHealth*.

Submitted

Fuller TL, Calvet G, Genaro Estevam C, Rafael Angelo J, Abiodun GJ, Halai U-A, De Santis B,

Carvalho Sequeira P, Machado Araujo E, Alves Sampaio S, Lima de Mendonça MC, Fabri A, Ribeiro RM, Harrigan R, Smith TB, Raja Gabaglia C, Brasil P, Bispo A, Nielsen-Saines N. Identifying climatic and ecological drivers of Zika, Chikungunya, and Dengue in Brazil: a modeling study. *PLoS One*.

Fuller TL, Narins TP, Nackoney J, Bonebrake TC, Sesink Clee P, Morgan K, Tróchez A, Bocuma Meñe D, Bongwele E, Njabo KY, Anthony NM, Gonder MK, Kahn M, Allen WR, Smith TB. Assessing the impact of China's timber industry on Congo Basin land use change. *Area*.

In press or in print

40. **Fuller TL**, Sesink Clee P, Njabo KY, Tróchez A, Morgan K, Bocuma Meñe D, Anthony NM, Gonder MK, Allen WR, Hanna R, Smith TB. 2018. Climate warming causes declines in crop yields and lowers school attendance rates in Central Africa. *Science of the Total Environment* 610:503-510.
39. **Fuller TL**, Tróchez A, Loundou P, Kamgang S, Narins T, Smith TB, Allen W. Biodiversity and climate change in Central Africa: perceptions, attitudes, and policies. 2016. 3rd ISA Forum of Sociology. *The Futures We Want: Global Sociology and the Struggles for a Better World*. 10-14 July 2016, Vienna, Austria. *Book of Abstracts*:236-237.
38. **Fuller TL**, Ducatez MF, Njabo KY, Couacy-Hymann E, Chasar T, Aplogan GL, Lao S, Awoume F, Tehou A, Langeois Q, Krauss S, Smith TB. Avian influenza surveillance in Central and West Africa, 2010-2014. 2015. *Epidemiology and Infection* 143:2205-2212.
37. Chasar A, Harrigan RJ, Holbrook KM, Dietsch TV, **Fuller TL**, Wikelski M, Smith TB. 2014. Spatial and temporal patterns of frugivorous hornbill movements in Central Africa and their implications for rainforest conservation. *Biotropica* 46:763-770.
36. Alvarado AH, **Fuller TL**, Smith TB. 2014. Integrative tracking methods elucidate the evolutionary dynamics of a migratory divide. *Ecology and Evolution* 4:3456-3469.
35. Giorgi AP, Rovzar C, Davis KS, **Fuller TL**, Buermann W, Saatchi S, Smith TB, Silveira LF, Gillespie TW. 2014. Spatial conservation planning framework for assessing conservation opportunities in the Atlantic Forest of Brazil. *Applied Geography* 53:369-376.
34. Smith TB, Kinnison MT, Strauss SY, **Fuller TL**, Carroll SP. Prescriptive evolution to conserve and manage biodiversity. 2014. *Annual Review of Ecology, Evolution, and Systematics* 45:1-22.
33. **Fuller TL**, Havers F, Xu C, Fang L, Cao W, Shu Y, Widdowson M, Smith TB. 2014. Identifying areas with a high risk of human infection with the avian influenza (H7N9) virus in East Asia. *Journal of Infection* 69:174-181.
32. Larison B, Njabo KY, Chasar A, **Fuller TL**, Harrigan RJ, Smith TB. 2014. Spillover of

pH1N1 to swine in Cameroon: an investigation of risk factors. *BMC Veterinary Research* 10:55.

31. Sheta BM, **Fuller TL**, Larison B, Njabo KY, Ahmed AS, Chasar A, Aziz SA, Khidr AA, Elbokl MM, Habbak LZ, Smith TB. 2014. Putative human and avian risk factors for avian influenza virus infections in backyard poultry in Egypt. *Veterinary Microbiology* 168:208-213.
30. Hosseini PR, **Fuller TL**, Harrigan R, Zhao D, Arriola CS, Gonzalez A, Miller MJ, Xiao X, Smith TB, Jones JH, Daszak P. 2013. Metapopulation dynamics enable persistence of influenza A, including A/H5N1, in poultry. *PLoS ONE* 8(12): e80091.
29. Thomassen HA, **Fuller TL**, Asefi-Najafabady S, Shiplacoff JAG, Mulembakani PM, Johnston SC, Kusalu NK, Lutete TK, Blumberg S, Fair JN, Wolfe ND, Shongo RL, LeBreton M, Meyer H, Wright LL, Muyembe J, Buermann W, Okitolonda E, Hensley LE, Lloyd-Smith JO, Smith TB, Rimoin AW. 2013. Pathogen-host associations and predicted range shifts of human monkeypox in response to climate change in Central Africa. *PLoS ONE* 8(7): e66071.
28. **Fuller TL**, Thomassen HA, Peralvo M, Buermann W, Mila B, Kieswetter CM, Jarrin-V P, Cameron Devitt SE, Mason E, Schweizer RM, Schlinegger J, Chan J, Wang O, Schneider CJ, Pollinger PJ, Saatchi S, Graham CH, Wayne RK, Smith TB. 2013. Intraspecific morphological and genetic variation of common species predicts ranges of threatened ones. *Proceedings of the Royal Society Biological Sciences* 280, 20130423.
27. **Fuller TL**, Gilbert M, Martin V, Cappelle J, Hosseini P, Njabo KY, Aziz SA, Xiao X, Daszak P, Smith TB. 2013. Predicting hotspots for influenza virus reassortment. *Emerging Infectious Diseases* 19:581-588.
26. Mendoza E, **Fuller TL**, Thomassen HA, Buermann W, Ramírez-Mejía D, Smith TB. 2013. A preliminary assessment of the effectiveness of the Mesoamerican Biological Corridor for protecting potential Baird's tapir (*Tapirus bairdii* Gill, 1865) habitat in Southern Mexico. *Integrative Zoology* 8:35-47.
25. Shafir SC, **Fuller TL**, Smith TB, Rimoin AW. 2012. A national study of individuals who handle migratory birds for evidence of avian and swine influenza virus infections. *Journal of Clinical Virology* 54: 364-7.
24. **Fuller TL**, Bensch S, Müller I, Novembre J, Pérez-Tris J, Ricklefs RE, Smith TB, Waldenström J. 2012. The ecology of emerging infectious diseases in migratory birds: an assessment of the role of climate change and priorities for future research. *EcoHealth* 9: 80-88.
23. Njabo KY, **Fuller TL**, Chasar A, Pollinger JP, Cattoli G, Terregino G, Monne I, Reynes JM, Njouom R, Smith TB. 2011. Pandemic A/H1N1/2009 influenza virus in swine, Cameroon, 2010. *Veterinary Microbiology* 156: 189-192.

22. **Fuller TL**, Thomassen HA, Mulembakani PM, Johnston SC, Lloyd-Smith JO, Kisalu NK, Lutete TK, Blumberg S, Fair JN, Wolfe ND, Shongo RL, Formenty P, Meyer H, Wright L, Muyembe JJ, Buermann W, Saatchi SS, Okitolonda E, Hensley L, Smith TB, Rimoin AW. 2011. Using remote sensing to map the risk of human monkeypox virus in the Congo Basin. *EcoHealth* 8: 14-25.
21. Thomassen HA, **Fuller TL**, Buermann W, Milá B, Kieswetter CM, Jarrín V P, Cameron SE, Mason E, Schweizer R, Schlunegger J, Chan J, Wang O, Peralvo M, Schneider CJ, Graham CH, Pollinger JP, Saatchi S, Wayne RK, Smith TB. 2011. Mapping evolutionary process: a multi-taxa approach to conservation prioritization. *Evolutionary Applications* 4: 397-413.
20. **Fuller TL**, Saatchi S, Curd EE, Toffelmier E, Thomassen H, Buermann W, DeSante DF, Nott MP, Saracco JF, Ralph CJ, Alexander JD, Pollinger JP, Smith TB. 2010. Mapping the risk of avian influenza in wild birds in the U.S. *BMC Infectious Diseases* 10: 187.
19. Zafra-Calvo N, Cerro R, **Fuller TL**, Lobo JM, Rodríguez MÁ, Sarkar S. 2009. Prioritizing areas for conservation and vegetation restoration in post-agricultural landscapes: a Biosphere Reserve plan for Bioko, Equatorial Guinea. *Biological Conservation* 143:787-794.
18. Sánchez-Cordero V, Illoldi-Rangel P, Escalante T, Figueroa F, Rodriguez G, Linaje M, **Fuller TL**, Sarkar S. 2009. Deforestation and biodiversity conservation in Mexico. In Columbus AM, Kuznetsov L, editors, *Endangered Species: New Research*. Nova Science Publishers, Hauppauge, New York, USA. p. 279-298.
17. Sarkar S, Sánchez-Cordero V, Londoño MC, **Fuller TL**. 2009. Systematic conservation assessment for the Mesoamerica, Chocó, and Tropical Andes biodiversity hotspots: a preliminary analysis. *Biodiversity and Conservation* 18:1793-1828.
16. Sarkar S, **Fuller TL**, Aggarwal A, Moffett A, Kelley CD. 2009. The ConsNet software platform for systematic conservation planning. In Moilanen A, Possingham H, Wilson K, editors, *Spatial Conservation Prioritization: Quantitative Methods and Computational Tools*. Oxford University Press, Oxford, UK. p. 235-248.
15. **Fuller TL**. Convention on Biodiversity. 2008. In Callicott JB, Frodeman R, editors, *Encyclopedia of Environmental Ethics and Environmental Philosophy*. MacMillan Reference/Thompson Gale, Farmington Hills, Minnesota.
14. Illoldi-Rangel P, **Fuller TL**, Linaje M, Pappas C, Sánchez-Cordero V, Sarkar S. 2008. Solving the maximum representation problem to prioritize areas for the conservation of terrestrial mammals at risk in Oaxaca. *Diversity and Distributions* 14:493-508.
13. Justus J, **Fuller TL**, Sarkar S. 2008. The influence of representation targets on the total area of conservation area networks. *Conservation Biology* 22:673-682.

12. **Fuller TL**, Morton DP, Sarkar S. 2008. Incorporating uncertainty about species potential distributions under climate change into the selection of conservation areas with a case study from the Arctic Coastal Plain of Alaska. *Biological Conservation* 141:1547-1559.
11. **Fuller TL**, Morton DP, Sarkar S. Planning for biodiversity conservation using stochastic programming. 2007. In Deutsch A, Bravo de la Parra R, de Boer R, Diekmann O, Jagers P, Kisdi E, Kretzschmar M, Lansky P, Metz H, editors, *Mathematical Modeling of Biological Systems*, Volume II, pages 101-107. Birkhauser, Boston.
10. Kim JO, **Fuller TL**. 2007. Incorporating stakeholder preferences into transboundary conservation planning: a case study from the Korean Demilitarized Zone. *Endangered Species Update* 24:95-103.
9. Sarkar S, Pressey RL, Faith DP, Margules CR, **Fuller TL**, Stoms DM, Moffett A, Wilson KA, Williams KJ, Williams PH, Andelman S. 2006. Biodiversity conservation planning tools: present status and challenges for the future. *Annual Review of Environment and Resources* 31:123-159.
8. **Fuller TL**, Sarkar S. 2006. LQGraph: a software package for optimizing connectivity in conservation planning. *Environmental Modeling and Software* 21:750-755.
7. **Fuller TL**, Munguia M, Mayfield M, Sánchez-Cordero V, Sarkar S. 2006. Incorporating connectivity into conservation planning: a multi-criteria case study from central Mexico. *Biological Conservation* 133:131-142.
6. Sarkar S, Justus J, **Fuller TL**, Kelley C, Garson J, Mayfield M. 2005. Effectiveness of environmental surrogates for the selection of conservation area networks. *Conservation Biology* 19:815-825.
5. **Fuller TL**, Sarkar S, Crews D. 2005. The use of norms of reaction to analyze genotypic and environmental influences on behavior in mice and rats. *Neuroscience and Biobehavioral Reviews* 29:445-456.
4. Sarkar S, Moffett A, Sierra R, **Fuller TL**, Cameron S, Garson J. 2004. Incorporating multiple criteria into the design of conservation area networks. *Endangered Species Update* 21:100-107.
3. Crews D, **Fuller TL**, Mirasol EG, Pfaff DW, Ogawa S. 2004. Postnatal environment affects behavior of adult transgenic mice. *Experimental Biology and Medicine* 229:935-939.
2. Sarkar S, **Fuller TL**. 2003. Generalized norms of reaction for ecological developmental biology. *Evolution and Development* 5:106-115.
1. **Fuller TL**. 2003. The integrative biology of phenotypic plasticity. [Review of Pigliucci, M. *Phenotypic Plasticity: Beyond Nature and Nurture*]. *Biology and Philosophy* 18:381-

389.

PRESENTATIONS

- 2017 Technical Symposium on Avian-Solar Interactions. “Incorporating avian migratory hotspots into the prioritization of alternative energy siting.” Multiagency Avian-Solar Collaborative Working Group. Sacramento, California.
- 2017 Leonel Fernández Foundation for Democracy and Development. “Using modeling to predict spread and minimize impacts of arboviruses in the Dominican Republic.” Santo Domingo, Dominican Republic.
- 2016 National Science Foundation Partnerships for International Research and Education Professional Development Workshop, Congo Basin Institute. “Introduction to R and Geographic Information Systems.” Yaounde, Cameroon.
- 2015 National Science Foundation Partnerships for International Research and Education Professional Development Workshop, University of Science and Technology of Masuku. “Using socio-economic data to prioritize protected areas.” Franceville, Gabon.
- 2015 Congo Basin Forest Partnership Partners Meeting. “Valuing evolutionary services: Preserving adaptive variation under climate change.” Yaoundé, Cameroon.
- 2015 EcoHealth Alliance. “Surveillance and prediction of zoonotic influenza in Africa and Asia.” New York, New York.
- 2015 Climate Change: Impacts & Responses Conference, University of British Columbia. “Biodiversity and climate change in Central Africa: perceptions, attitudes and policies.” Vancouver, British Columbia.
- 2014 National Council for Black Studies Annual Conference. “Biodiversity and climate change in Central Africa: perceptions, attitudes, and policies.” Los Angeles, California.
- 2014 UCLA Center for World Health. “Climate change & health: challenges and opportunities.” Los Angeles, California.
- 2013 UCLA La Kretz Workshop in Conservation Genomics. “Species distribution modeling” Calabasas, California.
- 2013 Association for the Advancement of Science, Pacific Division Meeting. “Identifying areas with a high risk of human infection with the avian influenza A (H7N9) virus in East Asia.” Las Vegas, Nevada.
- 2011 Chemical and Biological Defense Science and Technology Conference. “An

integrated analysis system for detecting anomalous virus outbreaks from imperfect surveillance data.” Las Vegas, Nevada.

- 2011 “Animal Migration” Symposium organized by the Royal Swedish Academy of Sciences and the Wenner-Gren Foundations. “Combining molecular genetic and isotopic markers to elucidate patterns of migratory connectivity and disease transmission.” Fiskebackskil, Sweden.
- 2011 Fogarty International Center, National Institutes of Health. “Predicting avian influenza risk in Cameroon, Egypt, and the US through wild bird surveillance and satellite mapping.” Bethesda, Maryland.
- 2011 Geospatial Abduction Workshop, Laboratory for Computational Cultural Dynamics, University of Maryland. “Using geospatial abduction to detect outbreaks of monkeypox virus in Central Africa.” College Park, Maryland.
- 2010 NSF MIGRATE Workshop. “Using phylogeny to link passerine migration to the spread of influenza A in North America.” Lake Constance, Germany.
- 2010 UCLA/Los Alamos National Laboratories Capabilities Briefing, Defense Threat Reduction Agency. “Using geographic information systems for Cooperative Threat Reduction 2.0.” Arlington, Virginia.
- 2010 St. Jude Children’s Research Hospital. “Using remote sensing to map the risk of avian influenza in the US and human monkeypox in the Democratic Republic of Congo.” Memphis, Tennessee.
- 2010 NSF Ecology and Evolution of Infectious Diseases Principal Investigators’ Meeting. “Mapping the risk of avian influenza in wild birds in the US.” Atlantic City, New Jersey.
- 2009 Section of Integrative Biology, University of Texas at Austin. “Seminar on running Maxent: Workshop on Ecological Niche Modeling”. Austin, Texas.
- 2009 Ecology, Evolution, and Behavior Graduate Program, University of Texas at Austin. “Area prioritization for optimal conservation planning.” Austin, Texas.
- 2009 UCLA Institute of the Environment. “Prioritizing areas for biodiversity conservation using uncertain data on species’ distributions.” Los Angeles, California.
- 2009 Climate, People, and Environment Program, Center for Climatic Research, University of Wisconsin-Madison. “Predicting the responses of arctic fauna to IPCC emission scenarios and land-use change.” Madison, Wisconsin.
- 2009 Energy Biosciences Institute, University of Illinois at Urbana-Champaign. “Forecasting the effects of climate change and oil and gas development on threatened

- vertebrates in the Arctic National Wildlife Refuge.” Urbana-Champaign, Illinois.
- 2009 Section of Marine Environmental Biology, Department of Biological Sciences, University of Southern California. “Incorporating genetic and geographical distance into the design of conservation areas.” Los Angeles, California.
- 2008 Center for Tropical Research, Institute of the Environment, University of California, Los Angeles. “The use of optimization models in tropical conservation planning.” Los Angeles, California.
- 2008 Symposium on Research at the Balcones Canyonlands National Wildlife Refuge, University of Texas at Austin. “Decision support for future land acquisition at Balcones Canyonlands NWR.” Marble Falls, Texas.
- 2007 Golden-cheeked Warbler Symposium. “Effectiveness of model averaging for the identification of Golden-cheeked Warbler habitat in the Balcones Canyonlands Ecoregion.” Austin, Texas.
- 2006 Plasticity and Epigenetics Seminar, University of Texas at Austin. “The use of reaction norms to analyze plasticity in mice and rats.” Austin, Texas.
- 2005 Estación de Biología “Los Tuxtlas”, Instituto de Biología, Universidad Nacional Autónoma de México. “Optimization problems in conservation biology.” San Andrés Tuxtla, Veracruz, Mexico.
- 2005 Sixth Tri-Annual Conference of the European Society on Mathematical and Theoretical Biology. “Stochastic programming methods for the design of conservation area networks.” Dresden, Germany.
- 2004 Ecological Society of America 2004 Annual Meeting. “The use of graph theory in the design of conservation area networks: methods for maximizing network connectivity.” Portland, Oregon.
- 2004 Society for Conservation Biology Annual Meeting. “The maintenance of connectivity in conservation area networks: graph-theoretic protocols.” New York, New York.
- 2004 Student Research Symposium in Ecology, Conservation, and Evolutionary Biology, Department of Fisheries and Wildlife, Texas A & M University. “The use of graph theory in the design of conservation area networks: methods for maximizing network connectivity.” College Station, Texas.
- 2003 15th Annual Conference of the Society for Ecological Restoration International. “Selecting landscape units for restoration to establish connectivity in a conservation area network: a graph-theoretic model.” Austin, Texas.