

ASSOCIATE PROFESSOR OF MEDICAL GEOGRAPHY, UNIVERSITY OF FLORIDA

Department of Geography	
Emerging Pathogens Institute (EPI)	
Co-Director, Florida Climate Institute	2020-
Graduate Faculty, SNRE (Interdisciplinary Ecology) Program	2014-
Graduate Faculty, Center for Latin American Studies	2016-
Graduate Faculty, Environmental and Global Health	2017-
Affiliate Faculty, Center for African Studies	2015-

HONORARY RESEARCH FELLOW, UNIVERSITY OF KWAZULU-NATAL, SOUTH AFRICA

School of Life Sciences, College of Agriculture, Engineering, and Science	2018-
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EDUCATION

PhD, University of California at Berkeley	2006
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Department of Environmental Science, Policy and Management (ESPM)	
Museum of Vertebrate Zoology (MVZ)	

BA, Princeton University	1998
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Department of Ecology and Evolutionary Biology (EEB)	
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PREVIOUS POSITIONS

ASSISTANT PROFESSOR OF MEDICAL GEOGRAPHY, UNIVERSITY OF FLORIDA	2014-2017
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Department of Geography	
Emerging Pathogens Institute (EPI)	

RESEARCH ASSISTANT PROFESSOR, SUNY Upstate Medical University	
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Department of Microbiology and Immunology, Center for Global Health and Translational Science	2012-2017
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ASSISTANT PROFESSOR, SUNY College of Environmental Science and Forestry	
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Department of Environmental and Forest Biology (EFB)	2011-2014
Graduate Program in Environmental Science (GPES)	2011-2014
Program Coordinator, Environmental Health, Division of Environmental Science (ESC)	2011-2014

POSTDOCTORAL VISITOR, Department of Geography, University of California Santa Barbara	2010-2011
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POSTDOCTORAL FELLOW, National Center for Ecological Analysis and Synthesis (NCEAS)	2009-2011
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POSTDOCTORAL FELLOW, NSF Biological Informatics, Stanford University and McGill University	2006-2009
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LECTURER, Department of Anthropology, Stanford University	2008
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AWARDS/HONORS/FELLOWSHIPS

University Term Professorship Award, University of Florida	2021-2024
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Evan Coe Faculty Travel Award for Medical Geography, University of Florida	2023
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Evan Coe Faculty Award for Excellence in Medical Geography, University of Florida	2022
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Co-Director, Florida Climate Institute, University of Florida	2020-
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University Term Professorship Award, University of Florida	2017-2020
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Early Career Faculty Fellowship, Florida Climate Institute	2017-2020
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NSF CHANS-NET Fellowship Award	2013
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NSF ECTMB travel grant award	2011
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SMB (Society for Mathematical Biology) Landahl Award	2011
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NIMBioS short-term visitor award "Can we build Foot-and-Mouth disease (FMD) management models for the US, and would they be used?"	2011
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NIMBioS short-term visitor award "Using GIS to inform spatial epidemic models"	2010
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NCEAS Postdoctoral Fellowship	2008-2011
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NSF Postdoctoral Research Fellowship in Biological Informatics	2006-2008
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EPA STAR (Science to Achieve Results) Fellowship	2004-2007
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FLAS (Foreign Language and Area Studies) Fellowship (x2)	2002-2004
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FUNDING/CONTRACTS

- UF Biodiversity Institute Seed Fund:** “Interactive effects of plant invasions and climate change on tick-borne disease risk”, \$25,000, PI: Flory; **Ryan, S.J.**, Lippi, C., Whalen, D., Co-PIs 2023-2024
- NSF PIPP Phase I:** “Predicting Emergence in Multidisciplinary Pandemic Tipping-points (PREEMPT)”, \$999,800, PI: Fefferman; **Ryan, S.J.**, Co-PI 2022-2024
- NSF: NSF Bioinformatics Institute (BII):** “Predicting the global host-virus network from molecular foundations”, \$12,500,000, PI: Carlson; **Ryan, S.J.** Co-PI 2022-2027
- UF Bioinformatics Institute (BII) Seed Fund:** “Mapping The Connectivity of Life”, \$44,000, PI: Fletcher, Co-PIs: Guralnick, R., Valle, D., **Ryan, S.J.** 2022-2024
- CDC Vector-Borne Disease Regional Centers of Excellence (U01):** “Southeast Regional Center of Excellence in Vector Borne Disease: The Gateway Program” \$10,000,000, PI: Dinglasan, R., Informatics Core Co-I: **Ryan, S.J.** 2022-2027
- CDC:** “Seroepidemiology of COVID in Africa (SICA)”, \$10,000,000, PI: Dinglasan; **Ryan, S.J.** Co-I 2021-2026
- Wellcome Trust/IAI:** “Landscaping software tools for climate-health”, \$49,000 2021
- NSF: NSF BII Design Grant.** “BII-Design: Exploring the ecology and evolution of the global virome with big data and machine learning.”, \$169,000, PI: Carlson, C.J., co-PIs: Dallas, T.A., **Ryan, S.J.** 2020-2022
- NSF: Collaborative Research: CIBR:** VectorByte: A Global Informatics Platform for studying the Ecology of Vector-Borne Diseases, \$436,000 to **Ryan, S.J.** 2020-2025
- IAI/UWI/IDB:** Integrating Climate Variability into the Surveillance, Prevention, and Control of Vector-Borne Diseases, \$49,584 2020-2021
- IAI/UWI/IDB:** Gender and arboviruses in the Caribbean, \$7,000 2020-2021
- IDB/UWI:** Climate-health audit tool for Caribbean climate and arbovirus data, \$30,000 2019-2020
- WHO/PAHO Contract:** Climate-Health course framework development, \$3,000 2019
- USAID Climate ATLAS/PMI/CHEMONICS:** Southern Africa malaria vulnerability; Malawi, Madagascar country reviews; plague and environment in Madagascar, \$136,700 2018-2019
- USAID Climate ATLAS/PMI/CHEMONICS:** supporting future vulnerability modeling, \$48,493 2017-2018
- NIH EEID R01:** “Spatial eco-epidemiology of tick-borne Rickettsial pathogens” \$2,500,000, PI: H.D. Gaff, co-PIs: **Ryan, S.J.**, D. Gauthier, R.J. Brinkerhoff. 2017-2022
- USAID/BRCCC:** “Development of a health-climate spatio-temporal modeling framework for the Caribbean” 2017
- World Bank:** “WASH poverty diagnostics: multi-country synthesis” (Phase 2), PI: **Ryan, S.J.** \$13,500 2017
- CDC:** “Insecticide resistance in *Aedes aegypti* in a Zika Transmission Region in Ecuador” \$149,000. Co-Is: **Ryan, S.J.**, A.M Stewart-Ibarra, M. Neira 2017
- CDC Vector-Borne Disease Regional Centers of Excellence (U01):** “Southeast Regional Center of Excellence in Vector-Borne Disease: The Gateway Program” \$10,000,000, PI: Dinglasan, R., Informatics Core Co-I: **Ryan, S.J.** 2016-2021
- USAID-PMI-Abt-Akros:** “Developing strategies for targeted indoor residual spraying to control malaria”, \$12,000 2016
- Wellcome Trust: Our planet, our health:** “Farming, food, and forecasting: developing outbreak resilience and sustainability in global agricultural systems” (Planning grant) £29,000. PI: Gilligan, C.; **Ryan, S.J.**, *key collaborator*
- WASH (World Bank):** “WASH poverty diagnostics” (Phase 1), PI: Rheingans, R.; co-PI: **Ryan, S.J.** 2016-2017
- Gates/PATH:** “Global economics of rotavirus vaccination” PI: Rheingans, R.; co-PI: **Ryan, S.J.** \$24,500 2017
- NSF EEID RAPID:** “In-situ Zika-vector-climate dynamics in a high burden region in Ecuador”, \$199, 583, PI: Stewart-Ibarra, A.M, co-PI: **Ryan, S.J.**, Neira, M.V. 2016-2017
- NIH EEID R01:** “Spatio-temporally explicit estimation of R_0 for pathogens with environmentally-mediated transmission”, \$ 1,461,632, PI: J. Blackburn, Co-PIs: **Ryan, S.J.**, Getz, W.M., Holt, R., Ponciano, J. 2015-2019
- NSF EEID:** “Effects of temperature on vector-borne disease transmission: integrating theory with empirical data”, \$ 1,846,842, PI: E. Mordecai, Co-PIs: **Ryan, S.J.**, Johnson, L.R., Savage, V., Thomas, M. 2015-2020
- NSF AOE Polar:** “Quantifying how Bioenergetics and Foraging Determine Population Dynamics in Threatened Antarctic Albatrosses”, \$552,327, PI: Johnson, L.R. Co-PI: **Ryan, S.J.** 2014-2018
- USDA McIntire-Stennis:** “Assessing Use of Newly-Restored Early Successional Forest by the Imperiled New England Cottontail, Using Genetic Dispersal Analysis”, \$52k, PI: Cohen, J., Co-PI: Whipps, C.M., **Ryan, S.J.** 2015-2018
- NYSDEC:** “Factors Limiting New England Cottontail Populations in New York”, \$860,000, PI: J. Cohen, Co-PIs: **Ryan, S.J.**, Whipps, C.M. 2013-2018
- Escuela Superior Politecnica del Litoral (ESPOL):** “Interactions among climate variability and the occurrence of harmful algal blooms (HABs) and their impact on human health in an estuarine-coastal gradient (Guayaquil-Santa Elena)”, \$100,000 PI: Borbor-Cordova, M.; **Ryan, S.J.**, *investigator* 2014-present

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- UF Informatics Institute Seed Fund:** “Death, disease and distribution: challenging current approaches and methodologies to the study of zoonotic diseases.” 2014, \$36k, PI: Southworth, J., Co-PIs: Blackburn, J.K., Muñoz Carpena, R., Glass, G.G., Kiker, G., **Ryan, S.J.**, Waylen, P. 2014-2015
- DOD GEIS:** “Evaluating the potential use of oceanographic information and remotely sensed algal blooms to predict risk of cholera and other climate and water-sensitive diseases.”, \$294K/year - PI: Polhemus, M. Co-PI: **Ryan, S.J.**, Stewart-Ibarra, A., Finkelstein, J. 2014-2015
- USDA McIntire-Stennis:** “Modeling Super Spreading in an Emerging Emerald Ash Borer (*Agrilus planipennis*) Infestation”, \$55,029 – PI: **Ryan, S.J.**, Co-PI: Fierke, M. 2013-2015
- DOD- GEIS:** “Capacity Building in Ecuador: Partnering to develop predictive models of infectious disease vulnerability.” \$300K/year. (*investigator*) 2013-2015
- SUNY RF Conversations in the Disciplines Program:** “From the lab to the landscape: Integrated Infectious Disease Research”, \$4,900 PI: **Ryan, S.J.**, Co-PI: Stewart, A.M., Polhemus, M. 2013
- National Geographic:** “Parks, People, and Climate Change: Assessing Household Vulnerability in Equatorial Africa” \$20,000 – Co-PIs: Hartter, J., **Ryan, S.J.** 2012
- INECOL/SUNY-ESF Seed Grant:** “Emerging diseases and health of black howler monkeys in degraded habitat in Balancán, Tabasco, Mexico” \$5,000 – PI: **Ryan, S.J.**, Co-PI: Serio-Silva, J.C. 2012
- NSF-CNH-Ex:** “Hotter Hotspots: Land-Use Intensification and Protected-Area Vulnerability in Africa's Albertine Rift” \$249,995 – PI: Hartter, J., Co-PIs: **Ryan, S.J.**, Palace, M., Chapman, C., Diem, J. 2011-2014

COURSES TAUGHT:

- GEO 3454: Peoples and Plagues, UF 2015- *present*
- GEO 3930: People, Parks, and Conservation in Africa (Study Abroad) 2018
- GEO 4938: Field techniques for Conservation and Landscape Analysis (Study Abroad) 2018
- EFB 496/796: Emerging Infectious Diseases, SUNY ESF 2011-2014
- EFB 360: Introduction to Epidemiology, SUNY ESF 2011-2014
- EFB 496/796: Parameter Estimation and Modeling in Population Biology Studies, SUNY ESF 2011-2014
- EFB 497: Seminar: Conservation in Ecuador, SUNY ESF 2011-2014
- EFB 497/797: Seminar: Emerging Diseases of Humans and Wildlife, SUNY ESF 2011-2014
- EFB 797: Seminar: Vertebrate Conservation Conversation, SUNY ESF 2011
- EFB 797: Seminar: Adaptive Peaks, SUNY ESF 2011, 2012
- ANSCI 178/278: Past and Present Pestilence: an interdisciplinary examination of zoonotic diseases, Stanford, 2008
- ESPM 298: Foundations of Ecology, Seminar co-facilitator, UC Berkeley 2003
- ESPM 114: Wildlife Ecology, Graduate Student Instructor, Lecturer, UC Berkeley 2003, 2006
- ESPM 104: Modeling and Management of Biological Resources, Reader, Instructor, UC Berkeley 2004, 2005

Workshops/Institutes (Instructor/Organizer)

- MPE 2013+ Workshop on “Global Change and Vector-borne Diseases: Mapping Emerging Infectious Diseases”, George Mason University and Center for Discrete Mathematics and Computer Science (DIMACS), Co-Organizer 2018
- IV Curso Internacional de Primatología de Campo: Ecología, Comportamiento y Conservación en la Interfase humano – ambiente. Estación de Investigación Primatológica y Vida Silvestre, INECOL, Balancán, Tabasco, MX 2013
- Complexity and Biology: Tick-borne disease dynamics for wildlife, livestock and humans, UKZN 2013
- Quantitative Landscape Ecology and Environmental Science (QLEES), DIMACS/MBI, UKZN 2012
- Institute and workshop on Conservation Biology, DIMACS/MBI, S. Africa, Kenya 2010, 2011
- Workshop: Introduction to GIS for Habitat Analysis and Home Range Estimation. SCB/SCGIS 2006

ADVISING - CURRENT

- GRADUATE:** Gavi Hecht, PhD track, Geography, UF; Simrik Bhandari MSc track, Geography, UF
- POSTDOCTORAL:** Catherine A. Lippi, PhD
- UNDERGRADUATE:** Emily Peterson, Julia Tootle
- HIGH SCHOOL:** Timothy Kong
- COMMITTEE MEMBER:** Vinaliz Cruz, SNRE, UF; Matthew Albrecht, Anthro, UF; Ke Zhang, WEC, UF; Christopher Gulick, WEC, UF.

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ADVISING - COMPLETED

GRADUATE:

- Shreejana Bhattarai, PhD 2023. *"Evaluating the Progress of Malaria Control and Effectiveness of Vector Control Interventions for Eliminating Malaria from Nepal"* Doctoral Dissertation, Medical Geography, University of Florida, Gainesville, FL
- Catherine Lippi, PhD, 2021. *"Leveraging Mosquito Surveillance and Epidemiological Data to Inform Public Health Response: A Spatial Statistics Framework for Arbovirus Management and Vector Control in Ecuador"*, Doctoral Dissertation, Medical Geography, Entomology Minor, University of Florida, Gainesville, FL
- Stephanie Mundis, PhD, 2021. *"Spatial Patterns in Mosquito Populations That Mediate Vector Control Effectiveness and Disease Risk at the Local, State, and National Level in the United States"*, Doctoral Dissertation, Medical Geography, University of Florida, Gainesville, FL
- James Martin, MSc, 2019. *"Social-ecological systems analysis of household Aedes aegypti risk in Huaquillas, Ecuador."* Medical Geography, University of Florida, Gainesville, FL
- Emily (Gavard) Almeroth, MPS. 2017. *Conservation Biology*, SUNY ESF, Syracuse, NY
- Tess Youker-Smith, MSc, 2016. *"Epidemics of an amphibian ranavirus in two species of vernal pool-breeding anurans: disease surveillance and environmental drivers of prevalence"* Conservation Biology, SUNY ESF, Syracuse, NY
- Rebecca Fuda, MSc, 2015. *"A park under pressure: human disturbance and its impact in Murchison Falls Conservation Area, Uganda"* Fish and Wildlife Biology and Management, SUNY ESF, Syracuse, NY
- Andrea Thomen, MSc, 2014. *"Evaluating avian assemblages in Dominican cacao farms: implications for management and conservation"* Conservation Biology, SUNY ESF, Syracuse, NY
- Lindsay Scales, MPS, 2014. *Conservation Biology*, SUNY ESF, Syracuse, NY

POSTDOCTORAL:

- Alexis White, PhD, Geography, UF, CDC Center of Excellence Funded 2020-2021
- Rachel Sippy, PhD, (co-mentor with A. Stewart-Ibarra), Vectorborne Disease – Climate, Geography, UF, 2018-2020
- Gabriela Hamerlinck, PhD, Geography, UF, CDC Center of Excellence Funded 2018-2019
- Phillip Boersch-Supan, PhD, NSF POLAR funded (co-mentored with L. Johnson), Geography, UF, 2014-2018.
"Quantifying how Bioenergetics and Foraging Determine Population Dynamics in Threatened Antarctic Albatrosses"
- Karoun Bagamian, PhD, World Bank funded, Department of Environmental and Global Health (EGH), UF 2017
"WASH Poverty Risk Modeling"
- Luis Escobar, DVM, PhD, DOD GEIS funded, SUNY Upstate Medical University, NY 2014-2015.
"Evaluating the potential use of oceanographic information and remotely sensed algal blooms to predict risk of cholera and other climate and water-sensitive diseases."

COMMITTEE/ EXAMINER

- Veronique Etienne, PhD, 2023, Veterinary Medicine, University of Florida
- Elizabeth Moreau, PhD 2022 Fisheries and Aquatic Sciences, University of Florida
- Boris Arevalo, PhD, 2021, Wildlife Ecology and Conservation, University of Florida
- Lee Ann Lyons, PhD 2021, Pathobiology, University of Illinois at Urbana-Champaign
- Caroline Poli, PhD, 2020, SNRE and Wildlife Ecology & Conservation, University of Florida
- Zoliswa Nhleko, PhD, 2020 SNRE and Wildlife Ecology & Conservation, University of Florida
- Johnny Uelman, 2020 PhD, Department of Pathobiology, University of Illinois at Urbana-Champaign
- Anni Yang, PhD, 2019, PhD, Geography, University of Florida
- Morgan Walker, MSc, 2019 Geography, University of Florida
- Stephanie Cinkovich, PhD, 2018, Biology, University of Florida, Gainesville, FL
- Audrey Smith, MSc, 2017, Geography, University of Florida
- Jacob Atem, PhD, 2017, Environmental and Global Health, University of Florida
- Amanda Cheeseman, PhD 2017, Wildlife Ecology, SUNY ESF
- Dawn Nekorchuk, PhD 2017, Geography, University of Florida
- Ian Kracalik, PhD 2017, Geography, University of Florida
- Lili Morris, PhD 2016, Geography, University of Florida
- Sarah Wilkinson, MSc, 2013. SUNY ESF

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Anna Stewart-Ibarra, PhD, 2012. SUNY ESF
Frank Sylvester, MS/JD, 2013. SUNY ESF, *Examiner*
Emily Byrne, MS, 2012. SUNY ESF, *Examiner*
Scott Warsen, MS, 2012. SUNY ESF, *Examiner*

UNDERGRADUATE (RESEARCH PROJECTS)

Kaylinn Escobar, BSc, CALS, Vectors and vector-borne diseases in Florida, 2021-2023
Julia Bellot, BSc, PHHP, Medical Geography research using GIS and Online Portals for health communication, 2020-2021
Anna Lavrentieva, BSc Mathematics and Spanish, UMD, PostBac Remote Experience in Medical Geography, 2020-2021
Emily Stone, BSc MCB, Bioinformatics Research Experience, UF Emerging Scholars Program Scholarship 2019-2020
Kimberlie Vera, BSc WEC, UF, Undergraduate Research in Savanna Ecology 2018-2019
Stephen Mackay, BSc Geography, UF, NSF REU funded researcher, 2017-2018
Taylor Rouviere, BSc Biology, Psychology; Geography minor, UF, University Scholars Program Scholarship 2017
Tyler James, BSc Psychology, Geography minor, UF, University Scholars Program Scholarship 2016
Rachel Brubaker, SUNY-ESF, 2014. *Cacao Project research: a meta-analysis of avian conservation – tropical agroforestry perceptions and conflicts.*
Logan Osterhoud, SUNY-ESF, 2014. *Ranavirus Project research: field based data collection at vernal pools, and sample preparation for genetic analyses*
Katie Luukkonen, SUNY-ESF, 2013. *Researching published studies of parasites of cottontail rabbits in the continental US, to establish lab ID protocols, optimal fecal sample preparation and parasite recovery*
Heather Holmes, SUNY-ESF, 2013. *2013: Conducting phlebotomy based research in conjunction with Dengue vaccine trials; 2012: Investigating the potential for horticultural therapy in Syracuse*
Dennis Chan, Honors Program, SUNY-ESF, 2012. *Investigating ecological correlates in colobine monkey evolution*
Tom Ryan, SUNY-ESF, 2012. *Collecting and collating data for phylogenetic construction; phylogenetic methods*

HIGH SCHOOL:

Aspen Singh, Research experience: R coding, learning the *Anopheles stephensi* system, developing mapped outputs, co-authoring manuscript 2022-2023

ENV GLOB HEALTH ROTATION:

Bianca Punch, MPH, developing metadata for environmental variables for *Schistosoma* transmitting snails 2023

SYNERGISTIC ACTIVITIES

Working Groups (participant)

NEON RCN, Mosquito Team (NSF OISE funded RCN) 2022-
Ecological Forecasting Institute (EFI): “Tick Challenge Design Team” 2020
Ecological Forecasting Institute (EFI): “Ecological Forecasting Institute RCN” 2020
SESYNC Pursuit: “Modeling West Nile Virus Disease” 2020-2021
SESYNC Pursuit: “Modeling Risk Perception, Vector-borne Diseases, and Environmental Integrity: Understanding Environmental Impacts of Policy Decisions for Vector Control.” 2018-2020
VectorBite: an NIH RCN 2016-2022
NCEAS/LUCE Foundation: “Malaria and Climate Change” 2011-2013
DHS/Fogarty: Research and Policy for Infectious Disease Dynamics (RAPIDD) “Foot and Mouth Disease” 2011
NIMBioS: “Modeling the Impact of Cattle Movements on Transmission Dynamics of Bovine TB in the US” 2009
NCEAS: “Efficient wildlife disease control: From social network self-organization to optimal vaccination” 2008
Conservation International: “Parasite Diversity and Mammalian Conservation” 2006

Software and Tools development and dissemination

With J. Ladau, developing software tools for community ecologists: *MPower*, *CoOccur* and *FixIt*

Service to Scientific Community

Advisor, *F1000 Ecology and Global Change Gateway* 2022-
Steering Committee, *Species On The Move Conference 2023* 2022-
Associate Editor, Infectious Disease Epidemiology, *Frontiers in Epidemiology* 2022-
Associate Editor, *African Journal of Wildlife Research* 2018-

January 2024

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Editor, <i>Animal Conservation</i>	2017-2021
Associate Editor, <i>Remote Sensing in Ecology and Conservation</i>	2015-2020
Associate Editor, <i>Animal Conservation</i>	2011-2017
Academic Editor, <i>PLOS ONE</i>	2012-2015
<i>American Association of Geographers (AAG):</i>	
Program Excellence Committee, Chair,	2021-2024
Program Excellence Committee, Member	2020-2021
AAG Health and Medical Geography Specialist Group (HMGSG): Board Member (elected)	2021-2023
AAG HMGSG Peter Gould Award and Symposium, Co-chair	2021-2023
<i>Society for Conservation Biology (SCB):</i>	
Education and Student Affairs, Chair; Board of Governors	2012-2015, 2017
Service to University	
<i>Department:</i>	
Graduate Admissions Committee Department of Geography, Member	2022-
Hiring Committee, Medical Geography, Chair	2021-2022
Graduate Coordinator, Department of Geography	2018-2021
Graduate Admissions Committee, Department of Geography, Chair	2018-2021
Medical Geography Certificate (Graduate) coordinator	2017-
Medical Geography Certificate (Undergraduate) coordinator	2017-2020
Awards Committee, Department of Geography, Chair	2016-
Merit Committee, member	2021-
Recruitment Committee, member	2020-2023
Medical Geography Steering Committee, member	2015-
Hiring Committee, Medical Geography Lecturer, Chair	2018
Hiring Committee, GIS Lecturer, Department of Geography, member	2016-2017
Hiring Committee, Climate Modeler, Department of Geography, member	2017
<i>College and University:</i>	
College Professional Development Leave Committee	2022
UF Climate Action Plan, Advisory Board member	2021-
Florida Climate Institute, Co-Director	2020-
College Curriculum Committee	2020-2023
College Sabbatical Leave Committee	2021
College Professional Development Leave Committee	2020
Center for African Studies, Merit Review Committee, Chair	2019
Undergraduate Research CLAS working group, member	2018
Hiring Committee, Chair of African Studies, member	2016
Center for African Studies, board member	2016-2019
SUNY-ESF, EFB Graduate Program Advisory Committee (GPAC), Member	2012-2014
SUNY-ESF Institutional Animal Care and Use Committee (IACUC), Member	2011-2014
SUNY-ESF Committee on Geospatial Modeling and Analysis (CGMA), Member	2011-2014
SUNY-ESF Conservation Biology Club, Faculty Advisor	2013

Professional Societies

American Geophysical Union (AGU), American Association of Geographers (AAG), Sigma Xi, Society for Conservation Biology (SCB), Ecological Society of America (ESA), Entomological Society of America (ESA), Society for Mathematical Biology (SMB), Wildlife Society (TWS), World Lagomorph Society (WLS)

Reviewer

Journals: *PNAS.*, *EID*, *J Remote Sens & Ecol*, *PLOS ONE (Academic Ed)*, *Anim Cons (Assoc Ed)*, *J Afr Ecol (Intl Rev Panel)*, *Ecology*, *J Appl Geog*, *Malaria J.*, *Koedoe*, *J Appl Ecol*, *J Anim Ecol*, *Phil Trans Roy Soc*, *Proc Roy Soc B*, *Ecol*

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Mod, J Zool, Cons Letters, Am J Primatol, J Mamm, J Env Mod and Assmt, J Am Stat Assoc, Oikos, Polar Biol, Biol Cons, J Trop Ecol, Biol J Linnean Soc, Primates

Grants/prizes: Ford Fellowship Foundation (National Academy of Sciences) Diversity Fellowship, AAG HMGSG Jacques May Prize; NSF EEID, NSF PIRE (OISE), NSF DEB, NSF POLAR Program, SCB Smith Fellows, NSRC, EPA STAR, American Association of University Women (AAUW), Graduate Women in Science (GWIS), National Geographic, ESEI Consortia (UK MRC), UF TCD FRG

WORK HISTORY

Conservation & Research Associate, Department of Conservation and Science, Lincoln Park Zoo 1998-2002

Conducted research on risk of herpes transmission in Asian and African elephants

Team development of stage based demographic models for AZA

Web site and web survey for TB (contract of the AAZV and the Audubon Society)

Researcher, Environmental and Conservation Program, Chicago Field Museum 1998

Field research and data collection, Yasuni National Park, Ecuador

Amazonian woody plant classification, identification and documentation, Chicago Field Museum

PUBLICATIONS (online at <http://www.sadieryan.net>)

ARTICLES (CHAPTERS AND REPORTS FOLLOW AFTER)

Preprints

Fefferman, N.H., Blum, M.J., Bourouiba, L., Gibson, N.L., He, Q., Miller, D.L., Papes, M., Pasquale, D.K., Verheyen, C., & **Ryan, S.J.** 2023. The Case for Controls: Identifying outbreak risk factors through case-control comparisons. In *arXiv [q-bio.PE]*. arXiv. <http://arxiv.org/abs/2311.02226>

Ryan, S.J., Lippi, C.A., Stewart-Ibarra, A.M. 2023. Mapping geographic and demographic shifts in container breeding mosquito-borne disease transmission suitability in Central and South America in a warming world. *medRxiv*. doi:10.1101/2023.10.03.23296495

Villena, O.C., Arab, A., Lippi, C.A., **Ryan, S.J.**, Johnson, L.R. 2023. How environmental, geographic, socio-demographic, and epidemiological indicators influence malaria prevalence. *ResearchSquare* doi.org/10.21203/rs.3.rs-3382942/v1

Nikc, K., Albery, G.F., Becker, D.J., Eskew, E.A., Fagre, A.C., **Ryan, S.J.**, and Carlson, C.J. 2022. Viral diversity and zoonotic risk in endangered species. *bioRxiv*

Dallas, T., **Ryan, S.J.**, Bellekom, B., Fagre, A.C., Christofferson, R.C., Carlson, C.J. 2021. Predicting the tripartite network of mosquito-borne disease. *EcoEvoRxiv*

Poisot, T., Gibb, R., **Ryan, S.J.**, Carlson, C.J. 2021. NCBITaxonomy.jl - rapid biological names finding and reconciliation. Available from Github from August 4, 2021.

Accepted/in press

López-Rosero, A., Sippy, R., Stewart-Ibarra, A.M., **Ryan, S.J.**, Mordecai, E.A., Heras, F., Beltrán, E., Costales, J.A., Neira, M. accepted. High prevalence of Zika virus infection in populations of *Aedes aegypti* from South-western Ecuador. *PLOS NTDs*

Published

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CHAPTERS

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REPORTS/PROCEEDINGS/BOOK REVIEWS

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21. **Ryan, S.J.**, Stewart-Ibarra, A., Dunbar, W., Diaz, A., Lowe, R., Thomas, S.J. 2020. "Climate health audit tool: regional health audit of climate and vector borne diseases data, Haiti, St. Lucia, Jamaica." Technical Report. Pilot Programme for Climate Resilience (PPCR), University of the West Indies, Mona. 60pp
20. **Ryan, S.J.**, Steynor, A., Jack, C., Wolski, P., van Aardenne, L., Lennard, C., Zermoglio, F. 2020. "Shifting Risks of Malaria in Southern Africa: a regional analysis." Technical Report. United States Agency for International Development Adaptation Thought Leadership and Assessments (USAID-ATLAS). 44pp
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18. **Ryan, S.J.**, Zermoglio, F. 2020. Shifting Burdens: Malaria Risk Under Rising Temperatures in Botswana. Briefing note. United States Agency for International Development Adaptation Thought Leadership and Assessments (USAID-ATLAS). 13pp <https://www.climatelinks.org/resources/shifting-burdens-malaria-risk-under-rising-temperatures-botswana>
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16. Zermoglio, F., **Ryan, S.J.**, Swaim, M. 2019. Shifting Burdens: Malaria Risk in a Hotter Africa. Technical Report. United States Agency for International Development Adaptation Thought Leadership and Assessments (USAID-ATLAS). 54pp <https://www.climatelinks.org/resources/shifting-burdens-malaria-risks-hotter-africa>
15. Stewart-Ibarra, A.M., **S.J. Ryan**, M.B. Cordova, M. Romero, R. Lowe, C.A. Lippi, and C. Carlson. 2017. A spatio-temporal modeling framework for *Aedes aegypti* transmitted diseases in the Caribbean. *United States Agency for International Development (USAID) Programme for Building Regional Climate Capacity in the Caribbean (BRCCC Programme)*.
14. **Ryan, S. J.**, Rheingans, R., Amratia, P., Amaya, M.P., Laytner, L. A., Bagamian, K. H., Anderson, J.D., Watson, J., McNamara, K., Cumming, O. 2016. "WASH Poverty Diagnostic; Poverty Risk Model Assessment: Ecuador." World Bank Report, 51pp. Report commissioned by the "*Poverty Risk Models (PRM) for water, sanitation and health (WASH) project*" for World Bank, Washington, D.C.
13. Rheingans, R., Bagamian, K. H., Anderson, J. D., **Ryan, S. J.**, Amratia, P., Amaya, M. P., Bouland, J., Laytner, L. A., Watson, J., Cumming, O. 2016. "WASH Poverty Diagnostic; Poverty Risk Model Assessment: Bangladesh." World Bank Report, 56pp. Report commissioned by the "*Poverty Risk Models (PRM) for water, sanitation and health (WASH) project*" for World Bank, Washington, D.C.
12. Rheingans, R., Anderson, J. D., Bagamian, K. H., **Ryan, S. J.**, McNamara, K., Laytner, L. A., Amratia, P., Watson, J., Cumming, O. 2016. "WASH Poverty Diagnostic; Poverty Risk Model Assessment: Democratic Republic of Congo." World Bank Report, 56pp. Report commissioned by the "*Poverty Risk Models (PRM) for water, sanitation and health (WASH) project*" for World Bank, Washington, D.C.
11. Rheingans, R., Bagamian, K. H., Anderson, J. D., **Ryan, S. J.**, Laytner, L. A., McNamara, K., Watson, J., Cumming, O. 2016. "WASH Poverty Diagnostic; Poverty Risk Model Assessment: Ethiopia." World Bank Report, 56pp. Report commissioned by the "*Poverty Risk Models (PRM) for water, sanitation and health (WASH) project*" for World Bank, Washington, D.C.
10. Rheingans, R., Bagamian, K. H., Anderson, J. D., **Ryan, S. J.**, Laytner, L. A., McNamara, K., Amaya, M. P., Watson, J., Cumming, O. 2016. "WASH Poverty Diagnostic; Poverty Risk Model Assessment: Haiti." World Bank Report, 54pp. Report commissioned by the "*Poverty Risk Models (PRM) for water, sanitation and health (WASH) project*" for World Bank, Washington, D.C.
9. Rheingans, R., Anderson, J.D., Bagamian, K.H., **Ryan, S.J.**, Watson, J., Laytner, L.A., Cumming, O. 2016. "WASH Poverty Diagnostic; Poverty Risk Model Assessment: Mozambique." World Bank Report, 62pp. Report commissioned by the "*Poverty Risk Models (PRM) for water, sanitation and health (WASH) project*" for World Bank, Washington, D.C.
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7. Rheingans, R., Anderson, J. D., Bagamian, K. H., **Ryan, S.J.**, Amaya, M. P., Laytner, L. A., McNamara, K., Watson, J., Cumming, O. 2016. "WASH Poverty Diagnostic; Poverty Risk Model Assessment: Tajikistan." World Bank Report, 54pp. Report commissioned by the "*Poverty Risk Models (PRM) for water, sanitation and health (WASH) project*" for World Bank, Washington, D.C.

6. Rheingans, R., Bagamian, K. H., Anderson, J. D., **Ryan, S. J.**, Watson, J., Amratia, P., Laytner, L. A., Cumming, O. 2016. "WASH Poverty Diagnostic; Poverty Risk Model Assessment: Pakistan." World Bank Report, 58pp. Report commissioned by the "*Poverty Risk Models (PRM) for water, sanitation and health (WASH) project*" for World Bank, Washington, D.C.
5. Bardosh, K, Ebi, K., **Ryan, S.J.**, Welburn, S., Singer, B. 2015. "Addressing Vulnerability, Building Resilience: Community-based Adaptation to Vector-Borne Diseases in the Context of Global Change." Review commissioned by the UNICEF/UNDP/World Bank/WHO Special Programme for Research and Training in Tropical Diseases (TDR) as part of the research initiative "*Population Health Vulnerabilities to Vector-Borne Diseases: Increasing Resilience under Climate Change Conditions in Africa.*" With funding support from the International Development Research Centre (IDRC) of Canada.
4. **Ryan, S.J.**, 2011. *Invited Book Review*. "Governing Africa's Forests in a Globalized World Laura A German, Alain Karsenty and Anne-Marie Tiani (Editors)". *Natural Resources Forum* 35(2): 146-147
3. Hartter, J., **Ryan, S.J.**, Southworth, J., and Chapman, C.A. 2010. "Fortresses and Fragments: Impacts of Fragmentation in a Forest Park Landscape". In *Proceedings of IUFRO Landscape Ecology International Conference*. Braganca, Portugal.
2. **Ryan, S.**, Roth, A.M., Thompson, S.D. and Gold, K.C. 2001. "Effects of hand rearing on the reproductive success of Western Lowland Gorillas in North America". pp. 99 In The Apes: Challenges for the 21st Century Brookfield Zoo, May 10-13, 2000. Conference Proceedings, Chicago Zoological Society, Brookfield, Illinois, U.S.A. viii + 376 pp. ISBN 0-913934-28-3.
1. Faust, L. J., Thompson, S.D., Earnhardt, J.E., Sherman, M., Brown, E. and **Ryan, S. J.** 2001. "Innovative techniques in population demography to improve captive management of western lowland gorillas". pp.207 In The Apes: Challenges for the 21st Century Brookfield Zoo, May 10-13, 2000. Conference Proceedings, Chicago Zoological Society, Brookfield, Illinois, U.S.A. viii + 376 pp. ISBN 0-913934-28-3.

SELECTED TALKS/PANELS

Invited:

- Ryan, S.J.** 2024. "Mapping thermal suitability for vector borne diseases", Climate Change and Epidemics, St Hilda's College, Oxford, January 2024
- Ryan, S.J.**, *invited expert*. 2023. "Climate, Mosquitoes and Disease", 44th Masterclass with global experts, hosted by Fredros Okumu and Nana Aba Williams, Ifakara Health Institute, University of Glasgow, and MESA, December 14th, 2023, 9am-12 EST
- Ryan, S.J.** 2023. "Mapping climate-driven mosquito borne diseases", 2nd Annual University of Virology Retreat, Sweetwater Branch Inn, December 7, 2023
- Ryan, S.J.**, *invited panelist*. 2023. "Climate Change & Emerging Infectious Disease Panel" American College of Epidemiology (ACE) Annual Meeting, September 13, 2023 (Virtual)
- Ryan, S.J.** 2023. "Mapping potential mosquito-borne disease risks in a changing world", Florida Museum Seminar Series, October 27, 2023
- Ryan, S.J.**, Lippi, C.A., Villena, O.C., Singh, A., Murdock, C.C., Johnson, L.R. 2023. "Mapping current and future thermal limits to suitability for malaria transmission by the invasive mosquito *Anopheles stephensi*". Symposium on Geospatial Approaches to Pressing Grand Challenges: Global Pandemics, Climate Change, and Food Security: Vector-borne Diseases under Environmental Changes 2. Sponsored by the Geographic Information Science and Systems Specialty Group, Health and Medical Geography Specialty Group, Spatial Analysis and Modeling Specialty Group. American Association of Geographers (AAG) Annual Meeting 2023, March 23-27, Denver, CO, USA.
- Ryan, S.J.** 2023 "Plans may change: shifting risks of vector-borne diseases on a warming planet" *Department of Geography Colloquium*, University of Florida, March 16th, 2023
- Ryan, S.J.** 2023 "Plans may change: shifting risks of vector-borne diseases on a warming planet" *Environmental and Global Health Seminar, Emerging Pathogens Institute*, University of Florida, February 18th, 2023
- Ryan, S.J.** 2022. *Invited Panelist* "Open for Climate Justice: How does open access and open science help address issues in climate justice?", *George A. Smathers Libraries, University of Florida*, October 26th, 2022
- Ryan, S.J.** 2022. "Impact of climate change on arboviral diseases" *IDWeek mini-symposium: "Impact of Climate Change on infectious diseases in children, IDWeek 2022*, Washington D.C., October 23rd, 2022

- Ryan, S.J.** 2022. *Guest Lecture*: “Pox be upon us: history of smallpox and response as a framing for MonkeyPox 2022” STIA 251: Emerging diseases after Covid-19: what comes next? *Science, Technology & International Affairs (STIA) Program, Walsh School of Foreign Service, Georgetown University*, October 14th, 2022 (*online*)
- Ryan, S.J.**, 2022. *Keynote Speaker, Strickman Memorial Lecture*: “Plans may change: shifting risks of vector-borne diseases on a warming planet” Society of Vector Ecology (SOVE) 8th International Congress, Honolulu, HI, September 19th, 2022
- Ryan, S.J.** 2021. *Guest Lecture*. “Models and maps: making sense of vector borne disease risk in a changing world”. GLID 525: Quantitative Evidence in Infectious Disease Research, *Global Infectious Disease Program, Georgetown University*, Sept 23, 2021 (*online*)
- Ryan, S.J.** 2021. “Section 2: Ecophysiological models for vector borne diseases”. US Department of State International Visitor Leadership Program (IVLP): Building a Resilient Healthcare System (Moldova), March 11, 2021 (*online*)
- Ryan, S.J.** 2021. *Invited Panelist*. “Sustainability into Practice: Climate Change, Health & Equity” *Bob Graham Center for Public Service in partnership with the University of Florida’s Office of Sustainability, Florida Climate Institute, and the UF Thompson Earth Systems Institute*. 6pm, March 4, 2021
- Ryan, S.J.** 2021. Mini-PIPP Summary and Synthesis: “Shifting Risks: global change and vectorborne disease suitability models”, NSF PIPP workshop: Predicting Pandemic Emergence, February 25, 2021 (*online*)
- Ryan, S.J.** 2021. Plenary Talk: “Shifting Risks: global change and vectorborne disease suitability models”, NSF PIPP workshop: Predicting Pandemic Emergence, *uploaded* February 19, 2021.
- Ryan, S.J.** *Invited Panelist*. “Climate, Health & Equity; Live on Disasters: Deconstructed Podcast” Noon, February 12, 2021 (YouTube: https://youtu.be/jCX_fu9y_fQ)
- Ryan, S.J.** 2021. “Shifting risks: aligning climate change predictions for mosquito-borne disease with health decision frameworks” (*online*) Emory University School of Medicine Infectious Diseases Seminar, January 21, 2021.
- Ryan, S.J.** 2020. *Guest Lecture*: “Decisions will be made: Aligning climate change predictions for vector-borne disease with planning frameworks.” PHC6764 Global Public Health and Development, Environmental and Global Health, University of Florida. November 9, 2020.
- Ryan, S.J.** 2020. “Climate and Dengue: Aligning climate change predictions for vector-borne disease with planning frameworks” Talk and Panel Discussion, UNGA 75 Side Event – *From Local to Global Cooperation in Dengue*. (*online*) International Society for Neglected Tropical Diseases (ISNTD), September 28, 2020. (YouTube <https://youtu.be/KT5biT2-zuE>)
- Ryan, S.J.** 2020. *Guest Lecture*: “Aligning climate change predictions for vector-borne disease with planning frameworks.” *Pandemics and the Environment; Environmental Capstone, LAW 6930, UF Law School*. (*online*) August 25, 2020
- Ryan S.J.** 2020. “Decisions will be made: modeling vector borne disease at multiple scales for different purposes and use” MEGA:BITESS Lunch and Learn for K-12 Teachers, Knoxville, TN (*online*) June 22, 2020.
- Ryan S.J.** 2020. “*Aedes* and landscapes: A short tour of *Aedes* (and tick) mapping projects from the Southeastern CoE” Midwest CDC Center of Excellence in Vector Borne Diseases (*online seminar*) April 14, 2020.
- Ryan, S.J.** 2020. “*Aedes* and landscapes: A short tour of *Aedes* mapping projects from the Southeastern CoE” CDC Vector Week 2020 Conference, Fort Collins, CO, February 25-28, 2020.
- Ryan, S.J.** 2019 “*Global shifts in risk of Aedes-transmitted diseases under future climate scenarios*” Centennial Annual Meeting of the American Geophysical Union (AGU 100) **Session: Assessment Of Global Climate Variability And Hydroclimatological Processes On Infectious Diseases I**, San Francisco, CA, December 9-13th, 2019
- Ryan, S.J.** 2019. “*Keynote: Linking vector borne disease to climate at multiple scales with mechanistic and geospatial models.*” 11th Annual Undergraduate Research Conference at the Interface of Biology and Mathematics, NIMBioS, University of Tennessee, Knoxville, November 16-17th, 2019.
- Ryan, S.J.** 2019. “Decisions will be made: modeling vector borne disease at multiple scales for different purposes and use” Seminar, Department of Ecology, Evolution, and Environmental Biology (E3B) Columbia University, October 22, 2019
- Ryan, S.J.**, 2019. “*The Future is Uncertain: Mapping and Communicating Suitability for Vector-borne Diseases under Climate Change*” Seminar, Center for Infectious Disease Dynamics (CIDD), The Pennsylvania State University, September 30, 2019.

- Ryan, S.J.** 2019 “Decisions will be made: Aligning climate change predictions for vector-borne disease with planning frameworks.” Symposium: Pathogens Gone Global: Disease Ecology and Evolution in a Changing World, Duke University, September 26, 2019.
- Ryan, S.J.** 2019 “Decisions will be made: Aligning climate change predictions for vector-borne disease with planning frameworks.” Symposium 15: Complex Disease Problems across Scales: Perspectives on Advancing Disease Ecology with Trans-Disciplinary Research, Ecological Society of America (ESA) Annual Meeting, August 16, 2019
- Ryan, S.J.** 2018. “Uncertain futures: incorporating climate projection uncertainty into vector borne disease models” *MPE 2013+ Workshop on Global Change and Vector-borne Diseases: Mapping Emerging Infectious Diseases* George Mason University Fairfax, VA, August 13th-15, 2018
- Ryan, S.J.** 2018. “Uncertain futures: incorporating climate projection uncertainty into (uncertain) vectorborne disease models.” *MPE 2013+ Workshop on Mathematics of Planet Earth - The Future*. Center for Discrete Mathematics and Computer Science (DIMACS), Rutgers University, New Brunswick, July 25-26th, 2018
- Ryan, S.J.** 2018. “The Future is Uncertain: mapping and communicating suitability for vectorborne diseases under climate change.” *USDA CMAVE*, May 10, 2018
- Ryan, S.J.** 2018. “The Future is Uncertain: mapping and communicating suitability for vector borne diseases under climate change.” *Energy and Environment Forum*, Howard J. Baker Center for Public Policy, University of Tennessee, Knoxville, TN, April 26, 2018
- Ryan, S.J.** 2018. “The Future is Uncertain: mapping and communicating suitability for vector borne diseases under climate change.” *2nd Annual Symposium on Climate and Health*, University of Miami, Miami, FL, April 14, 2018
- Ryan, S.J.** 2018. “The Future is Uncertain: mapping and communicating suitability for vector borne diseases under climate change.” *Cary Institute Seminar*, Cary Institute for Ecosystem Studies, Millbrook, NY, March 1, 2018.
- Ryan, S.J.** 2018. “Direct and Indirect Social Drivers and Impacts of Vectorborne Diseases” *Population Biology of Vector-borne Diseases Symposium*. UGA Center for the Ecology of Infectious Diseases (CEID), University of Georgia, Feb 24, 2018.
- Ryan, S.J.** 2017. “GIS for Vector borne diseases: a needs assessment.” *CSTE South Central and Atlantic Vector-Borne Diseases Regional Meeting*, New Orleans, LA, December 5-6, 2017
- Ryan, S.J.** 2017. “Overview of the SE Regional COE in VBD: The Gateway Program.” *CSTE South Central and Atlantic Vector-Borne Diseases Regional Meeting*, New Orleans, LA, December 5-6, 2017
- Ryan, S.J.** “The shifting burden of health in a changing climate; Discussion on ongoing approach under 2.4 Health and Climate Change ATLAS Project.” *Africa Bureau Speaker*, USAID, Washington, D.C., November 30, 2017
- Ryan, S.J.** 2017. “GIS for Vector borne diseases: a needs assessment.” *CSTE North and Mid-Atlantic Vector-Borne Diseases Regional Meeting*, Arlington, VA, November 28-29, 2017
- Ryan, S.J.** 2017. “Overview of the SE Regional COE in VBD: The Gateway Program.” *CSTE North and Mid-Atlantic Vector-Borne Diseases Regional Meeting*, Arlington, VA, November 28-29, 2017
- Ryan, S.J.** 2017. “Webinar: Geospatial Tools for Vector Borne Diseases”, *commissioned by USAID and CIMH Programme for building regional climate capacity in the Caribbean (BRCCC)*, livecast and recorded, June 16, 2017
- Ryan, S.J.** 2017. “Issues of Space and Place in a world of large-scale vectorborne disease models.” *DIMACS/NSF Special Program: Mathematics of Planet Earth (MPE): Appropriate Complexity Modeling of the Impacts of Global Change on Ecosystems*, UC Berkeley, Mar 27-29, 2017
- Ryan, S.J.** 2017. “Tales from local scales: implications for conservation after decisions have been made”. *Wildlife Seminar*, Department of ESPM, UC Berkeley, Mar 24, 2017.
- Ryan, S.J.** 2017. Guest Lecture. “The usual suspects: Issues of space, place, and model intent for climate and water driven diseases.” *ESPP 90D: Planetary Health: Understanding the human health impacts of accelerating environmental change*. Department of Environmental Health, Harvard T.H. Chan School of Public Health, Harvard University Center for the Environment. February 1st, 2017. Cambridge, MA
- Ryan, S.J.** 2016. “Forecasting Zika under global change: available data”, *DIMACS/NSF Special Program: Mathematics of Planet Earth (MPE)*, Zika workshop, UC Berkeley, Dec 5-6th, 2016.
- Ryan, S.J.** 2016. “The usual suspects: Issues of space, place, and model intent for climate and water driven diseases.” *Population Biology, Ecology and Evolution Program Seminar Series*, Emory University, October 14th, 2016.
- Ryan, S.J.** 2016. “Cape buffalo and savanna seasonality: feeding, breeding, and some notes on the future.” *Natural Resource Management in Africa Working Group Seminar*, University of Florida. October 27th, 2016.

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- Ryan, S.J.**, 2016. "Malaria and cholera: examining space, place, and scale, in modeling climate-disease systems". *Department of Environmental and Global Health (EGH) Seminar Series, University of Florida, September 27th, 2016.*
- Ryan, S.J.** 2016. "The usual suspects". Panel discussant, Global health and the environment I: Research (Sponsored by Human Dimensions of Global Change Specialty Group, Population Specialty Group, Health and Medical Geography Specialty Group). Organizers: Lopez-Carr, D., Kwan, M. *Annual Meeting of the American Association of Geographers, March 29-April 2nd, 2016, San Francisco, CA.*
- Ryan, S.J.** 2016. "Reflections on the Ebola Response". Panel discussant, *NSF Workshop: Mathematical Modeling of Infectious Diseases, March 8-10, 2016, Dakar, Senegal.*
- Ryan, S.J.**, Gavard, E., Cohen, J., Cheeseman, A., Whipps, C. 2015. "The Effect of an Introduced Competitor and Non-Native Forage Plants on Parasites and Body Condition of the New England Cottontail in Fragmented Habitat." Symposium: International and Collaborative Approaches to Lagomorph Conservation in a Changing World. Vth International Wildlife Management Congress 2015. July 26-30, 2015. Sapporo, Japan
- Ryan, S.J.** 2014. "Cape buffalo and savanna seasonality: feeding, breeding, and some notes on the future". *1st Symposium on African Buffalo, IUCN Antelope SSC, International Foundation for Wildlife Management (Fondation IGF), CIRAD Research Center, hosted by the Fondation François Sommer. November 5-6, 2014, Paris, France.*
- Ryan, S.J.** 2014. "Clash of the Titans: People, Environment, and Climate in the Albertine Rift." *Integrative Biology Departmental Seminar Series, University of Southern Florida (USF), Tampa, FL.*
- Ryan, S.J.** 2013. "Shifting ecologies of vector-borne diseases: novel emergence, recent resurgence, and the usual suspects." *Tipping Points for Action: 5th annual invasive species workshop. Alverna Heights, Fayetteville, NY.*
- Ryan, S.J.**, Hartter, J., Palace, M., Diem, J., and C. Chapman. 2013. "Parks, People, and Fragments: Remedying Decoupled Research into Natural-Human Systems." Session: New Frontiers for Research and Engagement in African Conservation Landscapes Association of American Geographers (AAG) Annual Meeting. April 9-13, 2013. Los Angeles, CA. *Sponsored by Human Dimensions of Global Change Specialty Group, Cultural and Political Ecology Specialty Group and the Hazards, Risks, and Disasters Specialty Group.*
- Ryan, S.J.** 2013. "Clash of the Titans: People, Environment, and Climate in the Albertine Rift." *Ecology & Evolution Graduate Program Seminar Series, Rutgers University, NJ.*
- Ryan, S.J.** 2013. "Climate change and Malaria: a hot topic that is cooler than you think". *Conversations in Global Health, Upstate Medical University, Department of Immunology and Microbiology.*
- Ryan, S.J.** 2012. "Extreme Conservation: The Consequences of Non-Intervention for Infectious Disease in Great Apes" *Fall Environmental Sciences Seminar Series, NRESS Program, the Institute for the Study of Earth Oceans and Space (EOS), the UNH Sustainability Academy, the Department of Natural Resources and the Environment, and the Department of Earth Sciences. University of New Hampshire, Durham, NH.*
- Ryan, S.J.** and Hartter, J. 2012. "Population, Environment, and Climate In the Albertine Rift: Local Impacts of Regional Change". Symposium: Making sense of climate change: global and local discourses. *American Association of Anthropology (AAA) Annual Meeting, San Francisco, CA.*
- Ryan, S.J.** and Hartter, J. 2012. "Living locally in the larger landscape: People, Environment and Climate in the Albertine Rift", *Wildlife Conservation Society, Bronx Zoo, NY*
- Ryan, S.J.** 2011. "From satellites to parasites: measuring health in African parks landscapes", *Department of Biology Seminar, Syracuse University.*
- Ryan, S.J.** 2010. *Guest Lecture, "Agent and individual based models for ecology", ESM 232, Bren School, USCB.*
- Ryan, S.J.** 2010. "From politics to parasites: assessing health in African parks landscapes". *Department of Geography Colloquium, UC Santa Barbara.*
- Ryan, S.J.** 2010. "The consequences of non-intervention for infectious disease in African great apes." *DIMACS/MBI US-African BioMathematics Initiative: Workshop on Conservation Biology. August 11-13, 2010. South African Wildlife College, Limpopo, South Africa.*
- Ryan, S.J.** 2009. "A Zoonotic Buffet: a survey of the diseases we share with animals". *Ecolunch, NCEAS.*
- Ryan, S.J.** 2009. "NDVI, forage quality and variation in reproductive patterns of African Buffalo (*Syncerus caffer*) in South Africa." Symposium: The use of satellite-based data in assessing ecological responses to environmental change. *International Mammal Congress, Mendoza, Argentina*
- Ryan, S.J.** 2009. "The effects of contact structure, demography and movement on disease transmission within a primate metapopulation" *Spring Ecology and Evolution Colloquium, Department of Biology, San Francisco State University.*

Ryan, S.J. 2008. “A structured model for disease transmission in primate populations”. *Environmental Seminar Series*, Santa Clara University.

Contributed/Conference talks and posters:

Graduate student presenter **Undergraduate student presenter *Postdoctoral presenter*

Ryan, S.J., C.A. Lippi, A.R. Diaz. 2023. “Advances in climate driven models for vector borne diseases, GH14A/GH21B” Conveners and Chairs, *GeoHealth Section and ESA Sponsored Sessions, American Geophysical Union (AGU) Meeting, December 2023, San Francisco, CA*

A.R. Diaz, L. Rollock, L. Boodram, R. Mahon, S. Best, A. Trotman, C. J. Van Meerbeeck, C. Fletcher, W. Dunbar, C.A. Lippi, C. Sorensen, Á.G. Muñoz, **S.J. Ryan**, A.M. Stewart-Ibarra, R. Lowe. “A demand-driven climate services for health implementation framework: a case study for climate-sensitive diseases in Caribbean Small Island Developing States”, in *GeoHealth Section and ESA Sponsored Session Advances in climate driven models for vector borne diseases, GH14A, American Geophysical Union (AGU) Meeting, December 2023, San Francisco, CA*

Ryan, S.J., Lippi, C.A., Villena, O.C., Singh, A., Murdock, C.C., Johnson, L.R. 2023. “Mapping current and future thermal limits to suitability for malaria transmission by the invasive mosquito *Anopheles stephensi*”. Symposium on Geospatial Approaches to Pressing Grand Challenges: Global Pandemics, Climate Change, and Food Security: Vector-borne Diseases under Environmental Changes 2. Sponsored by the Geographic Information Science and Systems Specialty Group, Health and Medical Geography Specialty Group, Spatial Analysis and Modeling Specialty Group. *American Association of Geographers (AAG) Annual Meeting 2023, March 23-27, Denver, CO, USA.*

Southworth, J., **Ryan, S.J.**, Herrero, H.V., Khatami, R., Hassan, M., Muir, C.S., Waylen, P.R. 2023. “Latitudes and Land Us: Global Biome Shifts in Vegetation Persistence Across Three Decades”. *American Association of Geographers (AAG) Annual Meeting 2023, March 23-27, Denver, CO, USA.*

Hecht, G.L.Y.*, Blackburn, J.K., **Ryan, S.J.** 2023. (Poster) Spatiotemporal Investigation of Human Dengue Virus in El Oro, Ecuador. *EPI Research Day 2023, Reitz Union Grand Ballroom, University of Florida*

Bhattarai, S. *, Blackburn, J.K., **Ryan, S.J.** 2023. (Poster) Analyzing the spatial and temporal patterns of designated malaria risk areas in Nepal from 2018 to 2021. *EPI Research Day 2023, Reitz Union Grand Ballroom, University of Florida*

Ryan, S.J. Chair/Convener, “AGU GH013: Intersecting Vulnerabilities: The Compounded Impacts On Health In A Changing World” Virtual Poster and Discussion Session, American Geophysical Union (AGU) Fall Meeting, 2020. December 1-17, 2020, *virtual*.

Ryan, S.J., Carlson, C.J., Tesla, B., Bonds, M., Ngonghala, C.N., Mordecai, E.A., Johnson, L.R., Murdock, C.C. 2020. “Warming temperatures could expose more than 1.3 billion new people to Zika virus risk by 2050.” Oral Session GH022: Early Warning Systems for Infectious Disease Based on Climate and Environmental Variability I. American Geophysical Union (AGU) Fall Meeting, 2020. December 1-17, 2020, *virtual*.

Thomas Q, Boettiger C, Carey C, Dietze M, Fox A, Kenney MA, Laney, CM, McLachlan, JS, Peters, J, Weltzin, JF, Woelmer, WM, Foster, JR, Guinnip, JP, Spiers, A, **Ryan, S**, Wheeler, KI, Young, AR, Johnson LR et al. 2020. (Poster) Introducing the NEON Ecological Forecasting Challenge hosted by the Ecological Forecasting Initiative Research Coordination Network. AGU Fall Meeting 2020. AGU; 2020.

Uelmen JA, Li B, Brown WM, Karki S, Ruiz M, **Ryan S**, et al. 2020. (Poster) An 18-Year Retrospective Analysis of West Nile Virus Infection in Culex Mosquitoes of the Midwestern United States. AGU Fall Meeting 2020. AGU; 2020.

McCoy, K., Weldon, C.T. Rashid Ansumana, R., Joseph M. Lamin, J.M., Stenger, D.E., **Ryan, S.J.**, Bardosh, K., Jacobsen, K.H., Dinglasan, R.R. 2020. (Poster) Knowledge, Attitudes and Practices related to malaria transmission-blocking vaccine acceptability in Bo, Sierra Leone: a mixed-methods study. Annual Meeting of the American Society for Tropical Medicine and Hygiene (ASTMH), 2020. November 15-19, 2020, *Virtual*

Villena, O., **Ryan, S.J.**, Murdock, C., Johnson, L.R. 2020. The effect of temperature on the transmission of malaria parasites: *Plasmodium falciparum* and *Plasmodium vivax* by *Anopheles gambiae* and *Anopheles stephensi*. 2020 Ecological Society of America (ESA) Annual Meeting, August 3-6, 2020, *virtual*.

Martin, J.L.*, Martcheva, M., **Ryan, S.J.** 2020 (Poster) “UF MathGeo Model: A Mechanistic Approach Using Vector Traits and Georeferenced Climate Data” 2020 Council of State and Territorial Epidemiologists Vector-Borne Diseases Forecasting Workshop, February 24, 2020, Fort Collins CO.

Caldwell, J., Mordecai, E.A., Lippi, C.A., **Ryan, S.J.** 2020. (Poster) “Team *Aedes* Ladies: presenting a climate-dependent mechanistic disease model” 2020 Council of State and Territorial Epidemiologists Vector-Borne Diseases Forecasting Workshop, February 24, 2020, Fort Collins CO.

- Mundis, S.J. *, **S.J. Ryan**. 2020. (Poster) “Characterization of spatial and temporal factors related to Eastern Equine Encephalitis virus spillover in Orange County, Florida.” February 13th, 2020. Emerging Pathogens Institute (EPI) Day, Gainesville, Florida.
- Mundis, S.J.*, A. Estep, C. Waits, **S.J. Ryan**. 2020. (Poster) “Spatial variation in the frequency of knockdown resistance (KDR) genotypes in Florida *Aedes aegypti* mosquito populations.” February 8th, 2020. Florida Society of Geographers, Gainesville, Florida.
- Stone, E.**, E., Mundis, S.J., Hamerlinck, G., Whiteman, A., Rapp, T., Delmelle, E., and Ryan, S.J. 2020 Investigating the Effect of Spatial and Temporal Factors on *Aedes albopictus* Size. Florida Society of Geographers Annual Meeting, February 7-9, Gainesville FL.
- Lippi, C.A.*, A.M. Stewart-Ibarra, E. Beltrán Ayala, and **S.J. Ryan**. 2020. (Poster) Social-ecological influences on dengue fever and a comparison of surveillance indicators in Machala, Ecuador. 2020. February 13th, 2020. Emerging Pathogens Institute (EPI) Day, Gainesville, Florida.
- Bhattarai, S*, and **Ryan, S.J.** 2020. (Poster) Evaluating vector control interventions to eliminate malaria from Nepal. February 13th, 2020. Emerging Pathogens Institute (EPI) Day, Gainesville, Florida.
- Martin, J.L.*, Stewart-Ibarra, A.M., Mordecai, E.A., Heras, F.D.H., Ayala, E.B., Ryan, S.J. 2019 “Socioecological Systems Analysis of Household *Aedes aegypti* Risk in Huaquillas, Ecuador.” Annual Meeting of the American Association of Geographers, April 3-7, Washington, D.C.
- Mundis, S.J.*, S.J. Ryan. 2019. “Spatial dependence and the role of landscape factors as predictors of insecticide resistance in *Aedes aegypti* mosquitoes across Florida.” Annual Meeting of the American Association of Geographers April 3-7, Washington, D.C.
- Lippi, C.A.*, A.M. Stewart-Ibarra, M.E. Franklin Bajana Loo, J.E. Duenas Zambrano, N.A. Epinoza, J.K. Blackburn, and S.J. Ryan. 2019. Geographic shifts in *Aedes aegypti* habitat suitability in Ecuador using larval surveillance data and ecological niche modeling: implications of climate change for public health vector control. Annual Meeting of the American Association of Geographers April 3-7, Washington, D.C.
- Martin, J.L.*, Martcheva, M., Ryan, S.J. 2019 “UF MathGeo Model: A Mechanistic Approach Using Vector Traits and Georeferenced Climate Data” 2019 Council of State and Territorial Epidemiologists Vector-Borne Diseases Forecasting Workshop, August 5, 2019, University of California Davis.
- Mundis, S.J.*, S.J. Ryan. 2019. “Application of spatial analysis methods to identify and explain insecticide resistant clusters of *Aedes aegypti* mosquitoes in Florida.” Annual Meeting of the American Society for Tropical Medicine & Hygiene (ASTMH) November 20-24, National Harbor, Maryland.
- Sippy R**, Heras Heras F, Stewart Ibarra AM, Ryan SJ, Mordecai EA. 2019 (Poster) Impact of Household Characteristics on *Aedes aegypti* Abundance in Rural Ecuador. 2019. *American Society for Tropical Medicine & Hygiene Annual Meeting*, National Harbor, MD
- Lippi, C.A.*, L. Mao, A.M. Stewart-Ibarra, N. Heydari, E. Beltrán Ayala, N.D. Burkett-Cadena, J.K. Blackburn, and S.J. Ryan. 2019 (Poster) A Network Analysis Framework to Improve the Delivery of Mosquito Abatement Services in Machala, Ecuador. 2019. *American Society of Tropical Medicine & Hygiene Annual Meeting*, National Harbor, MD.
- Blaine, T., **Ryan, S.J.**, Zermoglio, F., Quinn, C. 2018. “Understanding and Responding to the Shifting Burden of Disease: Malaria Risks in Africa Under a Changing Climate.” Session: GH13A: Developing Climate, Public Health, and Citizen Science Services to Predict and Prevent Climate-Sensitive Health Risks and Serve the Public Good. *American Geophysical Union Fall Meeting, December 10-14, 2018, Washington, D.C.*
- Ryan, S.J.**, Larsen, D.A, Walia, B., Martin, A.C., Pollard, D., Hamainza, B., Winters, A. 2018. (Poster) Modeling the agreement and cost of indoor residual spray implementation strategies to control malaria transmission. *American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting, October 28-November 1, 2018, New Orleans, LA*
- Ryan, S.J.**, Mundis, S.J.*, Aguirre, A., Lippi, C.A., Beltrán, E., Heras, F., Stewart-Ibarra, A.M, Neira, M. 2018. Phenotypic and genotypic resistance to commonly used insecticides in *Aedes aegypti* among four cities in southern Ecuador *American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting, October 28-November 1, 2018, New Orleans, LA*
- Lippi, C.A.*, Stewart-Ibarra, A.M., Trotman, A., Mahon, R., Rollock, L., Holligan, D., Kirton, S., **Ryan, S.J.** 2018. (Poster) Hotspots for public health intervention: different tools for emerging and endemic diseases in small areas, a spatiotemporal analysis of dengue and chikungunya in Barbados, 2013 – 2016. *American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting, October 28-November 1, 2018, New Orleans, LA*

- López-Rosero, A. Stewart-Ibarra, A.M., Heras, F., **Ryan, S.J.**, Mordecai, E.A., Neira, M. 2018. (Poster) LB-5218 - Screening for Arboviral Infection in *Aedes aegypti* Populations from South-western Ecuador: Preliminary Results *American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting, October 28-November 1, 2018, New Orleans, LA*
- Stewart-Ibarra, A.M., Romero, M., Borbor-Cordova, M.J., Cox, A., Hinds, A.Q., Lowe, R., Mahon, R., Van Meerbeeck, C., Rollock, L., St. Ville, E.S., **Ryan, S.J.**, Trotman, A. 2018 (Poster) Co-developing climate services for public health: stakeholder needs and perceptions for the prevention and control of *Aedes*-transmitted diseases in the Caribbean *American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting, October 28-November 1, 2018, New Orleans, LA*
- Mordecai, E.A., Johnson, L.R., Rohr, J.R., **Ryan, S.J.**, Savage, V. Shocket, M.S., Stewart-Ibarra, A.M., Thomas, M.B. 2018. (Poster) Ubiquitous, nonlinear effects of temperature on vector-borne disease: malaria, dengue, Zika, West Nile, and beyond *American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting, October 28-November 1, 2018, New Orleans, LA*
- Berry, I. M., Stewart-Ibarra, A.M., Rutvisuttinunt, W., Beltrán-Ayala, E., Figueroa, K., Srikanth, A., Cárdenas, W.B., Cueva, C., Polhemus, M., **Ryan, S.J.**, Endy, T.P., Jarman, R.G. 2018. (Poster) Molecular epidemiology of chikungunya virus from Ecuador demonstrates two introductions in 2013 and the E1-K211E mutation, suggesting presence of enhanced fitness to *Aedes aegypti*. *American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting, October 28-November 1, 2018, New Orleans, LA*
- Sippy, R.***, Heras, F., Mordecai, E., **Ryan, S.J.**, Stewart-Ibarra, A.M. 2018. (Poster) Impact of household characteristics on mosquito abundance in rural Ecuador. *American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting, October 28-November 1, 2018, New Orleans, LA*
- Ryan, S.J.** Carlson, C.J., Mordecai, E.A., Johnson, L.R. 2018. “The Future is Uncertain: global shifts in potential distribution and seasonal risk of *Aedes*-transmitted viruses.” Session: Geographic Research on Vector-borne Diseases III, Annual Meeting of the American Association of Geographers, April 10-14, 2018, New Orleans, LA [Co-organizer “Geographic Research on Vector-borne Diseases” Sessions I-V, April 10th, 2018, Sponsored by Health and Medical Geography Specialty Group, Geographic Information Science and Systems Specialty Group, Spatial Analysis and Modeling Specialty Group]
- Lippi, C.A.*, Stewart-Ibarra, A.M., Mao, L., Heydari, N., **Ryan, S.J.** “Using a network analysis framework to discuss delivery of mosquito abatement services in Machala, Ecuador” Session: Geographic Research on Vector-borne Diseases I, Annual Meeting of the American Association of Geographers, April 10-14, 2018, New Orleans, LA
- Ryan, S.J.***, Lippi, C.A.*, Boersch-Supan, P.H., Heydari, N., Silva, M., Adrian, J., Noblecilla, L.F., Ayala, E.B., Encalada, M.D., Larsen, D.A., Krisher, J.T., Krisher, L., Fregosi, L.N., Stewart-Ibarra, A.M. 2018. (Poster) Quantifying Seasonal and Diel Variation in Anopheline and Culex Human Biting Rates in Southern Ecuador. *EPI Research Day, February 15, 2018, Gainesville, FL*.
- Kshirsagar, R.A.*, Menon, S., **Ryan, S.J.** 2018. (Poster) Objects of reverence as carriers of diseases: health implications of pigeon exposure in Mumbai. *EPI Research Day, February 15, 2018, Gainesville, FL*.
- Martin, J.L.*, Lippi, C.A., Stewart-Ibarra, A.M, **Ryan, S.J.** 2018. (Poster) Socio-ecological Factors Impacting Dengue risk in Huaquillas, Ecuador: A Binational Bridge of Health. *EPI Research Day, February 15, 2018, Gainesville, FL*.
- Shocket, M.S., Johnson, L., Stewart-Ibarra, A.M., Thomas, M., Rohr, J., **Ryan, S.J.**, Savage, V., Mordecai, E.A. 2018. (Poster) Comparing temperature-based R0 models across vector-borne diseases and a new model for Ross River virus. *Stanford Global Health Research Convening, February 9, 2018, Stanford, CA*.
- Ryan, S.J.***, Lippi, C.A. *, Boersch-Supan, P.H., Heydari, N., Silva, M., Adrian, J., Noblecilla, L.F., Ayala, E.B., Encalada, M.D., Larsen, D.A., Krisher, J.T., Krisher, L., Fregosi, L.N., Stewart-Ibarra, A.M. 2017. (Poster) Quantifying Seasonal and Diel Variation in Anopheline and Culex Human Biting Rates in Southern Ecuador. *American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting, November 5-9, 2017, Baltimore, MD*
- Maljkovic-Berry I, Stewart-Ibarra AM, Rutvisuttinunt W, Beltran-Ayala E, Cardenas W, Cueva C, Polhemus M, **Ryan SJ**, Endy TP, Jarman RG. 2017. (Poster) Spread of dengue 1 and 2 in Machala, Ecuador: Evidence of a dynamic epidemic genetically related to those of surrounding countries of Colombia, Venezuela, and Peru. *American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting, November 5-9, 2017, Baltimore, MD*
- Geneva II, Kenneson-Adams A, Lupone CD, **Ryan SJ**, Borbor-Cordova MJ, Beltran-Ayala E, Polhemus M, Endy TP, Stewart-Ibarra AM. 2017. (Poster) Knowledge, perceptions, and socioeconomic status driving dengue prevention

- practices in urban coastal Ecuador. *American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting*, November 5-9, 2017, Baltimore, MD
- Heydari N, **Ryan SJ**, Neira M, Rochford R, Lippi C, Geer J, Heras F, Stewart-Ibarra AM. The economic burden of household-level prevention to *Aedes aegypti* transmitted illnesses across low and high disease burden sites in southern coastal Ecuador. 2017. (Poster) *American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting*, November 5-9, 2017, Baltimore, MD
- Kenneson A, Beltran-Ayala E, Borbor-Cordova M, Polhemus M, **Ryan S**, Endy T, Stewart Ibarra AM. Socio-Ecological Factors and Preventive Actions Associated with Dengue Infections at the Household-Level Identified in a Prospective Dengue Surveillance Study in Machala, Ecuador. 2017. (Poster) *American Society for Tropical Medicine and Hygiene (ASTMH) Annual Meeting*, November 5-9, 2017, Baltimore, MD
- James, T. G.****, & Ryan, S. J. 2017. (Poster) Predicting HIV-related stigma in college students: Identifying target sub-populations for stigma reduction interventions. Poster. *Annual Meeting of the American College Health Association*, June 2017, Austin, TX. [**Awarded 1st Place Student Poster**]
- Ryan, S.J.**, Johnson, L.R., Stewart Ibarra, A.M. 2017. "Bayesian uncertainty of physiological temperature models for vectorborne disease: how do you map that?" Session 4141: Uncertainty in health research (Sponsored by: Uncertainty and Context in Geography and GIScience Featured Theme), *Annual Meeting of the American Association of Geographers*, April 5th-9th, 2017, Boston, MA.
- Ryan, S.J.**, Stewart Ibarra, A.M., Chu, W., Finkelstein, J.L., Escobar, L.E., King, C.A., Ordonez, E., Heras, F., Waggoner, E., Tauzer, E., Enriquez, K., James, T., Polhemus, M. 2016. "Spatial and seasonal dynamics of *Vibrio spp.* in an estuary in southern coastal Ecuador" Special Session 2562: Spatial and eco-epidemiological modeling (Sponsored by International Geography, GIScience, and Urban Health Theme, Health and Medical Geography Specialty Group). *Annual Meeting of the American Association of Geographers*, March 29-April 2nd, 2016, San Francisco, CA.
- Shocket, M.S., Johnson, L., Stewart-Ibarra, A.M., Thomas, M., Rohr, J., **Ryan, S.J.**, Savage, V., Mordecai, E.A. 2017. Comparing temperature-based R0 models across vector-borne diseases and a new model for Ross River virus. Poster. *Impact of Environmental Changes on Infectious Diseases, International Center for Theoretical Physics*. May 19, 2017. Trieste, Italy
- Nightingale R, **Ryan SJ**, Lippi C, Borbor-Cordova MJ, Cruz BM, Ortega F., Leon R, Waggoner E, Stewart Ibarra AM. 2017. (Poster) Dengue fever and *Aedes aegypti* risk in the Galapagos Islands, Ecuador. *Impact of Environmental Changes on Infectious Diseases, International Center for Theoretical Physics*. May 19, 2017. Trieste, Italy
- Richards, L., Erko, B., **Ryan, S.J.**, Liang, S. 2017. (Poster) *Schistosoma mansoni* infection among nonhuman primates in Africa: a review. *EPI Research Day*, February 23rd, 2017, Gainesville, FL.
- Ponpetch, K., Erko, B., **Ryan, S.J.**, Yang, Y., Liang, S. 2017. (Poster) Spatial distribution of *Schistosoma mansoni* endemic area in Ethiopia. *EPI Research Day*, February 23rd, 2017, Gainesville, FL.
- Nekorchuk, D., Dougherty, E., Morris, L., Griffin, C. Yang, A., Dinh, E., Bohnett, E., Proffitt, K., **Ryan, S.J.**, Blackburn, J.K. 2017. (Poster) Effects of available area definitions and animal movement pattern types in resource selection functions. *EPI Research Day*, February 23rd, 2017, Gainesville, FL.
- Lippi, C.A.*, Stewart-Ibarra, A.M., Muñoz, A.G., Borbor-Cordova, M.J., Mejía, R., Rivero, K., Castillo, K., Cárdenas, W.B., **Ryan, S.J.** The social and spatial ecology of dengue presence and burden during an outbreak in Guayaquil, Ecuador, 2012. 2017. (Poster) *EPI Research Day*, February 23rd, 2017, Gainesville, FL.
- Mordecai, E.A., Cohen, J., Evans, M., Johnson, L.R., Gudapati, P., Miazgowicz, K., Murdock, C.C., Rohr, J.R., **Ryan, S.J.**, Savage, V., Stewart Ibarra, A.M., Thomas, M.B., Shocket, M., Weikel, D.P. Temperature defines the fundamental risk of Zika, dengue, and chikungunya transmission. *American Society for Tropical Medicine and Hygiene (ASTMH) 65th Annual Meeting*, November 13-17th, 2016, Atlanta, GA.
- Lippi, C.A.*, Castillo, K.C., Stewart-Ibarra, A.M., Cárdenas, W.B., Mejía, R., Borbor, M., Rivero, K., **Ryan, S.J.** 2016. (Poster) The Social Ecology of Dengue Presence and Burden During an Outbreak in Guayaquil, Ecuador, 2012. *American Society for Tropical Medicine and Hygiene 65th Annual Meeting*, November 13-17, 2016, Atlanta, GA
- Ryan, S.J.**, Stewart Ibarra, A.M., Chu, W., Finkelstein, J.L., Escobar, L.E., Lupone, C., King, C.A., Ordonez, E., Heras, F., Waggoner, E., Tauzer, E., Enriquez, K., James, T., Cardena, W., Polhemus, M. 2016. (Poster) Cholera and environmental dynamics in an Ecuadorean estuarine system. *American Society for Tropical Medicine and Hygiene 65th Annual Meeting*, November 13-17, 2016, Atlanta, GA

- Ortega, F., Nightingale, R., Leon, R., Basantes, D., Borbor-Cordova, M., Cruz, M., Waggoner, E., Lippi, C.*, **Ryan, S.J.**, Stewart Ibarra, A.M. 2016. (Poster) Dengue fever and *Aedes aegypti* risk in the Galapagos Islands, Ecuador. *American Society for Tropical Medicine and Hygiene 65th Annual Meeting*, November 13-17, 2016, Atlanta, GA
- Finkelstein, J.L., A.J. Layden, E. Beltrán Ayala, W.B. Cárdenas, T.P. Endy, **S.J. Ryan**, A.M. Stewart Ibarra, S. Mehta. 2016. (Poster) Micronutrients and Dengue Fever in Coastal Ecuador. Cornell Univ., Machala and Guayaquil, Ecuador, SUNY Upstate Med. Univ. and Univ. of Florida. Session: GLOBAL NUTRITION: NUTRITION, INFECTION AND INFLAMMATION Poster (Sponsored by: Global Nutrition Council). *Experimental Biology 2016*, San Diego, CA, April 2-6, 2016.
- Tedesco, J.M., S. Mehta, E. Beltrán-Ayala, W.B. Cárdenas, T.P. Endy, **S.J. Ryan**, A.M. Stewart Ibarra, J.L. Finkelstein. 2016. (Poster) Anthropometry and Dengue Fever in Coastal Ecuador. Cornell Univ., Ministry of Hlth. and Esc. Superior Politéc. del Litoral, Ecuador, SUNY Upstate Med. Univ. and Univ. of Florida. Session: GLOBAL NUTRITION Poster (Sponsored by: Global Nutrition Council). *Experimental Biology 2016*, San Diego, CA, April 2-6, 2016.
- Dobbins, M.T.*, Steinberg, M.K., Broadbent, E.N., **Ryan, S.J.*** 2016. "Habitat use, activity patterns, and human interactions with jaguars in southern Belize". *Annual Meeting of the American Association of Geographers*, March 29-April 2nd, 2016, San Francisco, CA.
- Nekorchuk, D.M.*, Morris, L.R., Proffitt, K.M., Getz, W.M., **Ryan, S.J.**, Blackburn, J.K. 2016. 'Resource Selection of Bison and Anthrax Management Implications in Southwest Montana'. Session 2465: Mapping and Modeling Animal Geographies. *Annual Meeting of the American Association of Geographers*, March 29-April 2nd, 2016, San Francisco, CA.
- Ervin, D., Lopez-Carr, D., Riosmena, F., **Ryan, S.J.** 2015. "The relationship between land- use and land-cover change and migration processes in Mexico." *The International Geographic Union Regional Geographic Conference*, Moscow, Russia, August 19, 2015.
- James, T. G.** & **Ryan S. J.** 2015. STI knowledge accuracy in college students: Identifying targets for safer sex education. 3rd Annual Fall Undergraduate Research Symposium, October 26, 2015, Gainesville, FL
- Ryan, S.J.**, Southworth J., Hartter J., Fuda R., Dowhaniuk N., Diem J. 2015. "Household level influences on fragmentation in an African park landscape." *27th International Congress for Conservation Biology and 4th European Congress for Conservation Biology*. August 2-6th, 2015. Montpellier, France.
- Dowhaniuk, N., Hartter, J., Congalton, R.G., Palace, M.W., **Ryan, S.J.** 2015. "Landscape change, human population growth and oil development in Murchison Falls Conservation Area, Uganda." *27th International Congress for Conservation Biology and 4th European Congress for Conservation Biology*. August 2-6th, 2015. Montpellier, France.
- Fessler, A.G., Mehta, S., Beltra-Ayala, E., Arichabala Wilches, A.L., Endy, T.P., Polhemus, M., Stewart-Ibarra, A.M., **Ryan, S.J.**, Finkelstein, J.L. 2015. (Poster) Burden of Tropical Diseases in Machala, Ecuador. *American Society for Tropical Medicine and Hygiene 64th Annual Meeting*, October 25-29, 2015, Philadelphia, PA
- McMahon, E., Stewart-Ibarra, A.M., Barbachano-Guerro, A., Kirchhoff, L., Beltrán-Ayala, E., Borbor-Cordova, M.J., Cueva-Aponte, C.K., Finkelstein, J.L., King, C.A., Lupone, C.D., Mehta, S., **Ryan, S.J.**, Silva, M., Endy, T.P. 2015. (Poster) The prevalence of Chagas disease and co-infections with dengue from a dengue surveillance study in Machala, Ecuador. *American Society for Tropical Medicine and Hygiene 64th Annual Meeting*, October 25-29, 2015, Philadelphia, PA
- Chu, W., **Ryan, S.J.**, Freire, W.B., Stewart-Ibarra, A.M., Cardenas, W.B., Finkelstein, J.L. 2015. (Poster) Burden and Distribution of Malnutrition in Guayaquil, Ecuador: Results from the Ecuadorian National Health and Nutrition Survey (ENSANUT-ECU). *American Society for Tropical Medicine and Hygiene 64th Annual Meeting*, October 25-29, 2015, Philadelphia, PA
- Stewart-Ibarra, A.M., King, C.A., Barbachano, A., Beltrán-Ayala, E., Borbor-Cordova, M.J., Cárdenas, W.B., Cueva, C., Finkelstein, J.L., Lupone, C.D., Mehta, S., **Ryan, S.J.**, Silva, M., Endy, T.P. 2015. (Poster) High Burden of Dengue Fever in Southern Coastal Ecuador: Epidemiology from a prospective study in Machala in 2014. *American Society for Tropical Medicine and Hygiene 64th Annual Meeting*, October 25-29, 2015, Philadelphia, PA
- Borbor-Cordova, M.J., Torres, G., Bayot, B., Bermudez, R., Escobar, L.E., Hamilton, S., Pozo, M., Recalde, C., **Ryan, S.J.**, Stewart-Ibarra, A.M. 2015. (Poster) Exploring the impact of Harmful Algal Blooms (HABs) on the health of coastal communities in the Gulf of Guayaquil, Ecuador. *American Society for Tropical Medicine and Hygiene 64th Annual Meeting*, October 25-29, 2015, Philadelphia, PA

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- Handel, A., Beltran, E., Borbor Cordova, M.J., Espinoza, R.X.R., **Ryan, S.J.**, Stewart-Ibarra, A.M. 2015. (Poster) Knowledge, Attitudes, and Practices Regarding Dengue Infection Among Healthcare Providers in Machala, Ecuador. *IDWeek 2015*, October 7-11, 2015, San Diego, CA.
- Cheeseman, A., Cohen, J., Whipps, C., **Ryan, S.J.** "The influence of invasive species on habitat use and dispersal of the New England cottontail, an imperiled endemic lagomorph in a human-dominated landscape." Symposium: International and Collaborative Approaches to Lagomorph Conservation in a Changing World. *Vth International Wildlife Management Congress 2015*. July 26-30, 2015. Sapporo, Japan
- Ryan, S.J.**, McNally, A., Johnson, L.R., Ben-Horin, T., Mordecai, E., Paaijmans, K.P., Lafferty, K.D. 2015. (Poster) Changing physiological suitability limits of malaria transmission in Africa under climate change. *Ecology and Evolution of Infectious Diseases (EEID) meeting*, May 26-29, 2015, Athens, GA.
- Ryan, S.J.**, Southworth, J., Hartter, J., Dowhaniuk, N., Fuda, R., Diem, J. 2015. "Household level influences on fragmentation in an African park landscape." *Association of American Geographers (AAG) Annual Meeting*, April 21-25, 2015, Chicago, IL.
- Ryan, S.J.**, McNally, A., Johnson, L.R., Ben-Horin, T., Mordecai, E., Paaijmans, K.P., Lafferty, K.D. 2015. (Poster) Changing physiological suitability limits of malaria transmission in Africa under climate change. *Emerging Pathogens Institute Research Day 2015*, February 26th, 2015, Gainesville, FL
- Jones, M.I.*, **Ryan, S.J.**, Fierke, M.K. 2014. "Factors influencing spread of emerald ash borer in an urban forest: a case study in Syracuse, New York." *Entomological Society of America Annual Meeting*, November 15-19, 2014, Portland, OR.
- Escobar, L.E.***, **Ryan, S.J.**, Stewart Ibarra, A.M., Finkelstein, J.K., King, C.A., Qiao, H., Polhemus, M.E. 2014. (Poster) A global map of suitability for coastal cholera under current and future climate conditions. *American Society for Tropical Medicine and Hygiene Annual Meeting*, November 2-6, 2014, New Orleans, LA
- Stewart Ibarra, A.M., Luzadis, V.A., Borbor Cordova, M.J., Silva, M., Ordonez, T., Beltran, E., **Ryan, S.J.** 2014. (Poster) Community perceptions of emerging dengue in urban areas in southern coastal Ecuador. *American Society for Tropical Medicine and Hygiene Annual Meeting*, November 2-6, 2014, New Orleans, LA
- Ryan, S.J.**, McNally, A., Johnson, L.R., Ben-Horin, T., Mordecai, E., Paaijmans, K.P., Lafferty, K.D. 2014. "Rising suitability, declining severity: climate change and shifting malaria transmissibility in Africa." *III Encuentro Nacional de Investigación en Enfermedades Infecciosas y Medicina Tropical; II Latin-American Network of Molecular Epidemiology and Evolutionary Genetics of Infectious Diseases (LAN MEEGID)*, July 21-23, 2014, Quito, Ecuador.
- Ryan, S.J.**, McNally, A., Johnson, L.R., Ben-Horin, T., Mordecai, E., Paaijmans, K.P., Lafferty, K.D. 2014. "Rising suitability, declining severity: climate change and shifting malaria transmissibility in Africa." *Association of American Geographers (AAG) Annual Meeting*, April 8-12th, 2014, Tampa, FL
- Cheesman, A.E.*, Cohen J., **Ryan, S.J.**, Whipps, C.M. 2014. (Poster) Survival and home range of New England Cottontail (*Sylvilagus transitionalis*) in response to hunting, competition, and habitat composition. American Society of Mammalogists Annual Meeting, Okalahoma City, OK. **Winner: student poster competition**
- Youker, T. E.* & **Ryan, S. J.** 2014. (Poster) Environmental factors affecting ranavirus prevalence among aquatic-breeding amphibians in natural and constructed ponds. *SUNY-ESF Spotlight on Student Research and Outreach*, April 15, 2014, Syracuse, NY
- Brubaker R.**, Thomen A.P.*, **Ryan, S.J.** 2014. (Poster) A quantitative research synthesis of human-avian conflict in agriculture systems. *SUNY-ESF Spotlight on Student Research and Outreach*, April 16, 2014, Syracuse, NY
- Scales L.N.*, **Ryan S.J.** 2014. (Poster) Exploring the influence of migration temperature thresholds on captive migratory bird behavior. *SUNY-ESF Spotlight on Student Research and Outreach*, April 15, 2014, Syracuse, NY
- Gavard, E.G.*, Cohen, J., **Ryan, S.J.**, and Whipps, C.M. 2014. (Poster) Exploring the potential for parasite-mediated competition: New England and Eastern cottontails, invasive vegetation, and parasites in the Hudson Valley, NY. *SUNY-ESF Spotlight on Student Research and Outreach*, April 15, 2014, Syracuse, NY. **3rd place prize award: \$75**
- Youker, T. E.* & **Ryan, S. J.** 2014. (Poster) Environmental factors affecting ranavirus prevalence among aquatic-breeding amphibians in natural and constructed ponds. *Northeast Fish & Wildlife Association Conference*, April 10, Portland, ME
- Jones, M.I.*, M.K. Fierke, and **S.J. Ryan**. 2014. (Poster) Understanding the emerging emerald ash borer infestation in New York. Poster Presentation. *New York Society of American Foresters Annual Meeting*, Syracuse, NY. January 2014.

- Youker, T. E.* & **Ryan, S. J.** 2014. (Poster) Environmental factors affecting ranavirus prevalence among aquatic-breeding amphibians in natural and constructed ponds. *SUNY CID: From Lab to Landscape: Integrated Infectious Disease Research Symposium*, January 24, 2014, Syracuse, NY. **1st place prize: \$500**
- Jones, M.I.* , M.K. Fierke, and **S.J. Ryan.** 2014. (Poster) Detecting superspreader trees in the emerging emerald ash borer infestation in New York. Poster Presentation. *SUNY CID: From Lab to Landscape: Integrated Infectious Disease Research Symposium*, January 24, 2014, Syracuse, NY. **3rd place prize: \$250**
- Ibarra Stewart, A.M., Luzadis, V.A., Borbor Cordova, M.J., Silva, M., Ordoñez, T., Beltran, E., **Ryan, S.J.** 2013. Community perceptions of emerging dengue in urban areas in southern coastal Ecuador. *American Society for Tropical Medicine and Hygiene (ASTMH) 62st Annual Meeting*, November 13-17, Washington, D.C.
- Thomen, A.P.* and **Ryan, S.J.** 2013 (Poster) Evaluating avian communities in Dominican cacao farms: Management and Conservation. *Student Conference on Conservation Science-New York (SCCSNY)*. October 8-11, 2013. New York, NY.
- Fuda, B.* , **Ryan, S.J.**, Hartter, J. and C.A. MacKenzie. 2013. (Poster) Carnivore Conservation in Northwest Uganda: Assessing Human Impacts and Attitudes. *Student Conference on Conservation Science-New York (SCCSNY)*. October 8-11, 2013. New York, NY.
- Ryan, S.J.**, Hartter, J. 2013 "Beyond Ecological Success of Corridors: Integrating Land Use History and Demographic Change to Provide a Whole Landscape Perspective". *Ecological Society of America (ESA) Annual Meeting*. August 4-9th, 2013. Minneapolis, MN. **Supported by NSF CHANS-net fellowship.**
- López-Carr, D., **Ryan, S.J.**, Clark, M.J. 2013. Population, Health, and Land Transitions at Multiple Scales: Evidence from Latin America. *National Academies of Science, Kavli Frontiers of Science symposium*. June 15-19, 2013. Irvine, CA.
- Johnson, L.R., Ben-Horin, T., Mordecai, E., Paaijmans, K.P., Pawar, S., **Ryan, S.J.**, McNally, A., Lafferty, K.D. 2013. (Poster) Effects of uncertainty in temperature dependencies in physiological responses on predictions of R0 for malaria: a Bayesian approach. *Ecology and Evolution of Infectious Disease (EEID), 11th Annual Workshop and Conference*. May 20-23, 2013. Penn State University, PA.
- Breytenbach, E., Diem, J.E., Hartter, J., **Ryan, S.J.**, and C.A. Chapman. 2013. (Poster) Following the rains: Perceptions of climate change around Kibale National Park, Uganda. *Association of American Geographers (AAG) Annual Meeting*. April 9-13, 2013. Los Angeles, CA.
- Diem, J.E., Hartter, J., Palace, M.W., and **S.J. Ryan.** 2013. (Poster) Validation of Satellite-Based Rainfall Products for Western Uganda. *Association of American Geographers (AAG) Annual Meeting*. April 9-13, 2013. Los Angeles, CA.
- Hartter, J., Palace, M., **Ryan, S.J.**, Diem, J., and C.A. Chapman. 2013. Forest Loss, Agricultural Intensification, and the Islandization of Protected Areas in the African Albertine Rift. *Association of American Geographers (AAG) Annual Meeting*. April 9-13, 2013. Los Angeles, CA.
- Hartter, J., **Ryan, S.J.**, Palace, M., Diem, J., and C.A. Chapman. 2012. (Poster) Population, Environment, and Climate in the Albertine Rift: Understanding Local Impacts of Regional Change. *American Geophysical Union (AGU) Fall Meeting*. December 3-7, 2012. San Francisco, CA.
- Ryan, S.J.** and J. Hartter. 2012. Assessing Conservation Success: People, Wildlife, and Parks in the Albertine Rift. Society of Conservation Biology. *North American Congress for Conservation Biology (NACCB)*. July 15-18, 2012. Oakland, CA.
- Ibarra Stewart, A.M.* , **Ryan, S.J.**, Beltran, E., Meija, R., Silva, M. 2012. (Poster) Dengue Vector Dynamics Influenced by Interacting Climatic and Social Factors in Ecuador: Implications for Targeted Control. *American Society for Tropical Medicine and Hygiene (ASTMH) 61st Annual Meeting*, November 11-15, 2012. Atlanta, GA
- Ryan, S.J.** and Tildesley, M. 2012. Disease prevention or data privacy? Research and Policy for Infectious Disease Dynamics (RAPIDD) "Foot and Mouth Disease" Meeting. September 19-21, 2012. Washington, D.C. *Supported by Fogarty Institute, NIH and the Department of Homeland Security (DHS) RAPIDD program*
- Hartter, J. and **Ryan, S.J.** 2012. "The island fortress: people, wildlife and parks landscapes in the Albertine Rift" *American Association of Geography (AAG) Annual Meeting*, New York, NY
- Ryan, S.J.** and Hartter, J. 2011. "The value of fragments: extending park boundaries, dwindling resources, or sourcing crop raiders?", *Symposium: Healthy Ecosystems, Healthy Communities?: Links between Conservation and Food Security*, International Congress on Conservation Biology (ICCB), Auckland, New Zealand
- Ryan, S.J.** and Tildesley, M. 2011. (Poster) "Utility of landcover maps for spatial epidemic models of disease transmission in UK livestock". *Epidemics* 3, November, 2011. **Poster Pitch:** <http://www.youtube.com/watch?v=yAlwChrlvfw>

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- Ryan, S.J.** and Gaff, H.C., 2011 “Looking to the future: how to progress to success from the US-Africa Biomathematics Initiative“ *MiniSymposium (Gaff and Ryan): Reports from US - African BioMathematics Initiative: Conservation Biology*, 8th European Conference on Mathematical and Theoretical Biology, and Annual Meeting of The Society for Mathematical Biology, Krakow, Poland, June 28 - July 2, 2011.
- Hartter, J., **Ryan, S.J.**, Southworth, J., Goldman, A.C., Binford, M.W., and C.A. Chapman. 2010. “Fortresses and Fragments: Impacts of Fragmentation in a Forest Park Landscape.” IUFRO Landscape Ecology International Conference. September 21-27, 2010. Bragança, Portugal.
- Ryan, S.J.** and Hartter, J. 2009. “The Social Impacts of landscape change around a fortress park in Uganda” *American Association of Geographers (AAG) Annual Meeting*, Las Vegas.

Other:

- Cohen, J.B., Cheeseman, A., Gavard, E., **Ryan, S.J.**, Whipps, C.M. 2014. New England cottontail. *New York Fish and Wildlife Advisory Board meeting*, Pulaski, NY.
- Cohen, J.B., Cheeseman, A., Gavard, E., **Ryan, S.J.**, Whipps, C.M. 2014. New England cottontail. *New York Forest Owner's Association meeting*, Syracuse, NY.
- Palace, M., J. Harter, **S. Ryan**, J. Diem, 2013, Remote sensing and tropical ecology in Africa. A talk given to visiting Rotary Group from Niger, at UNH 2013.
- Hartter, J, **Ryan, S**, Palace, M, Diem, J, MacKenzie, C, Goldman, A. 2014. *Invited*. “Parks in Peril?” Center for African Studies, University of Florida. April 25, 2014. Gainesville, FL
- Ryan, S.J.** “Human-Animal Interactions in Africa”, *Museum of Cultural Zoology*, hosted by: Multicultural Affairs & the Roosevelt Wildlife Collection, Nifkin Lounge, SUNY ESF, April 11th, 2012

Workshops/ Field Courses Taught:

MPE 2013+ Workshop on Global Change and Vector-borne Diseases: Mapping Emerging Infectious Diseases (Lead/co-organizer). *George Mason University Fairfax, VA, August 13th-15, 2018. Funded by DIMACS/GMU*

IV Curso Internacional de Primatología de Campo: **Ecología, Comportamiento y Conservación en la Interfase humano – ambiente**. 2013 Estación de Investigación Primatológica y Vida Silvestre, INECOL, Balancán, Tabasco, México
Sessions 1-3: Emerging Diseases, Climate change and how we (could) approach them together
Talks: Malaria and Climate Change; Too few primates, too many primates, and disease

Siyacabanga Workshop: Complexity and Biology: Tick-borne disease dynamics for wildlife, livestock and humans. 12 - 14 March 2013. University of KwaZulu Natal, Pietermaritzburg, South Africa (Co-coordinator)
Session: Coupled natural-human systems research and disease ecology on landscapes

DIMACS/MBI Workshop: Quantitative Landscape Ecology and Environmental Sustainability. 2 - 7 July 2012. University of KwaZulu Natal, Durban, South Africa. (Co-coordinator)
Didactic Talk: If we know what sustainability is (theory), how do we take the next step (applied)?
Home range and habitat selection: ArcGIS Morning Hands-on Workshop
Thinking in Systems: Morning Hands-on Workshop

US-Africa initiative on Conservation Biology at the Naivasha Research Institute, Kenya, January 2011
Funded through NSF, Society for Mathematical Biology, DIMACS at Rutgers
Introduction to GIS for Wildlife; Global Change and GIS; Introduction to Agent-based Models; Harvesting Models for Conservation

US-Africa initiative on Conservation Biology at the South African Wildlife College (SAWC), July-August 2010
Funded through NSF, Society for Mathematical Biology, DIMACS at Rutgers
Introduction to GIS for Wildlife; Global Change and GIS; Introduction to Agent-based Models; Harvesting Models for Conservation

OCCASIONALLY USEFUL SKILLS

Languages: Intermediate French, Spanish, and Afrikaans (FLAS fellowships)

Software:

Sadie J. Ryan

GIS/Remote Sensing: ArcView, ArcGIS, ArcINFO, QGIS, DIVA-GIS, ERDAS Imagine, R

Statistical: R, Matlab; *Programming:* rudimentary Java, Netlogo, HTML

Collections/data management: ARKS/SPARKS, ISIS, Paradox, MS Access, MySQL, Morpho (EML)

Certifications:

CITI training for human subjects research (international and internet additional modules) (2015/2017)

AALAC training for ethical use of animals in research (2015)

EH&S certification for IACUC (UF)

Human Subjects Payments training (UF)

Laboratory environmental health and safety at SUNY ESF (2013)

Dry Ice Packaging, Blood Sample, and Pathogenic Biohazard Sample Packaging STAR training (Stanford, 2008)