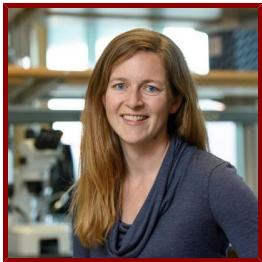


Stanford



Erin Mordecai

Associate Professor of Biology and Senior Fellow at the Woods Institute for the Environment

 NIH Biosketch available Online

Bio

BIO

My research focuses on the ecology of infectious disease. I am interested in how climate, species interactions, and global change drive infectious disease dynamics in humans and natural ecosystems. This research combines mathematical modeling and empirical work.

I finished my PhD in 2012 at the University of California Santa Barbara in Ecology, Evolution, and Marine Biology. I then completed a 2-year NSF postdoctoral research fellowship in the Intersection of Biology and Mathematical and Physical Sciences and Engineering at the University of North Carolina at Chapel Hill and North Carolina State University. I have been at Stanford since January 2015.

ACADEMIC APPOINTMENTS

- Associate Professor, Biology
- Senior Fellow, Stanford Woods Institute for the Environment
- Member, Bio-X
- Faculty Affiliate, Institute for Human-Centered Artificial Intelligence (HAI)

HONORS AND AWARDS

- Leading Interdisciplinary Collaborations Fellow, Woods Institute for the Environment, Stanford University (2018-2019)
- Early Career Fellow, Ecological Society of America (2019)
- Walter J. Gores Award for Teaching, Stanford University (2019)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Affiliate, Woods Institute for the Environment (2018 - present)
- Editorial Advisory Board Member, Lancet Planetary Health (2019 - present)
- Member, Jasper Ridge Faculty Advisory Committee (2015 - present)
- Associate Editor, Ecology Letters (2019 - present)
- Faculty Fellow, Center for Innovation in Global Health (2015 - present)
- Faculty Fellow, King Center on Global Development (2019 - present)

PROFESSIONAL EDUCATION

- B.S., University of Georgia , Honors Interdisciplinary Studies in Mathematical Biology (2007)
- PhD, University of California Santa Barbara , Ecology, Evolution, and Marine Biology (2012)

LINKS

- My Lab Website: <http://www.mordecailab.com/#about-marquee>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Our research focuses on the ecology of infectious disease. We are interested in how climate, species interactions, and global change drive infectious disease dynamics in humans and natural ecosystems. This research combines mathematical modeling and empirical work. Our main study systems include vector-borne diseases in humans and fungal pathogens in California grasses.

Teaching

COURSES

2023-24

- Introduction to Ecology: BIO 81 (Aut)

2022-23

- Ecology and Evolution of Infectious Disease in a Changing World: BIO 2N (Spr)

2021-22

- Introduction to Ecology: BIO 81 (Aut)

2020-21

- Ecology and Evolution of Infectious Disease in a Changing World: BIO 2N (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Julie Pourtois, Magdalena Warren

Postdoctoral Faculty Sponsor

Jasmine Childress, Mauricio Cruz Loya, Rachel Fay, Caroline Glidden, Kelsey Lyberger, Victor Pena Garcia, Daniela de Angeli Dutra

Doctoral Dissertation Advisor (AC)

Isabel Delwel, Johannah Farmer, Mallory Harris, Desire Nalukwago

Doctoral Dissertation Co-Advisor (AC)

Emma Krasovich Southworth, Aly Singleton

Postdoctoral Research Mentor

Jasmine Childress

Doctoral (Program)

Mallory Harris

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biology (School of Humanities and Sciences) (Phd Program)
- Epidemiology (Phd Program)

Publications

PUBLICATIONS

- **Interconnecting global threats: climate change, biodiversity loss, and infectious diseases.** *The Lancet. Planetary health*
Pfenning-Butterworth, A., Buckley, L. B., Drake, J. M., Farner, J. E., Farrell, M. J., Gehman, A. M., Mordecai, E. A., Stephens, P. R., Gittleman, J. L., Davies, T. J. 2024; 8 (4): e270-e283
- **Local tree cover predicts mosquito species richness and disease vector presence in a tropical countryside landscape.** *Research square*
Farner, J. E., Howard, M., Smith, J. R., Anderson, C. B., Mordecai, E. A.
2024
- **Perceived experts are prevalent and influential within an antivaccine community on Twitter.** *PNAS nexus*
Harris, M. J., Murtfeldt, R., Wang, S., Mordecai, E. A., West, J. D.
2024; 3 (2): pgae007
- **Mosquito thermal tolerance is remarkably constrained across a large climatic range.** *Proceedings. Biological sciences*
Couper, L. I., Farner, J. E., Lyberger, K. P., Lee, A. S., Mordecai, E. A.
2024; 291 (2015): 20232457
- **High prevalence of Zika virus infection in populations of Aedes aegypti from South-western Ecuador.** *PLoS neglected tropical diseases*
López-Rosero, A., Sippy, R., Stewart-Ibarra, A. M., Ryan, S. J., Mordecai, E., Heras, F., Beltrán, E., Costales, J. A., Neira, M.
2024; 18 (1): e0011908
- **Non-household environments make a major contribution to dengue transmission: Implications for vector control.** *medRxiv : the preprint server for health sciences*
Peña-García, V. H., Desiree LaBeaud, A., Ndenga, B. A., Mutuku, F. M., Bisanzio, D. A., Mordecai, E. A., Andrews, J. R.
2024
- **Climate warming is expanding dengue burden in the Americas and Asia.** *medRxiv : the preprint server for health sciences*
Childs, M. L., Lyberger, K., Harris, M., Burke, M., Mordecai, E. A.
2024
- **Temperature dependence of mosquitoes: comparing mechanistic and machine learning approaches.** *bioRxiv : the preprint server for biology*
Athni, T. S., Childs, M. L., Glidden, C. K., Mordecai, E. A.
2023
- **Local tree cover predicts mosquito species richness and disease vector presence in a tropical countryside landscape.** *bioRxiv : the preprint server for biology*
Farner, J. E., Howard, M., Smith, J. R., Anderson, C. B., Mordecai, E. A.
2023
- **Tackling climate change and deforestation to protect against vector-borne diseases.** *Nature microbiology*
Mordecai, E. A.
2023; 8 (12): 2220-2222
- **Temperature and intraspecific variation affect host-parasite interactions.** *Oecologia*
Ismail, S., Farner, J., Couper, L., Mordecai, E., Lyberger, K.
2023
- **Mosquito thermal tolerance is remarkably constrained across a large climatic range.** *bioRxiv : the preprint server for biology*
Couper, L. I., Farner, J. E., Lyberger, K. P., Lee, A. S., Mordecai, E. A.
2023
- **A systematic review of the data, methods and environmental covariates used to map Aedes-borne arbovirus transmission risk.** *BMC infectious diseases*
Lim, A. Y., Jafari, Y., Caldwell, J. M., Clapham, H. E., Gaythorpe, K. A., Hussain-Alkhateeb, L., Johansson, M. A., Kraemer, M. U., Maude, R. J., McCormack, C. P., Messina, J. P., Mordecai, E. A., Rabe, et al
2023; 23 (1): 708
- **Temperature and intraspecific variation affect host-parasite interactions.** *bioRxiv : the preprint server for biology*
Ismail, S., Farner, J., Couper, L., Mordecai, E., Lyberger, K.

2023

● **The Importance of Including Non-Household Environments in Dengue Vector Control Activities.** *Viruses*

Peña-García, V. H., Mutuku, F. M., Ndenga, B. A., Mbakaya, J. O., Ndire, S. O., Agola, G. A., Mutuku, P. S., Malumbo, S. L., Ng'ang'a, C. M., Andrews, J. R., Mordecai, E. A., LaBeaud, A. D.

2023; 15 (7)

● **The role and influence of perceived experts in an anti-vaccine misinformation community.** *medRxiv : the preprint server for health sciences*

Harris, M. J., Murtfeldt, R., Wang, S., Mordecai, E. A., West, J. D.

2023

● **Human footprint is associated with shifts in the assemblages of major vector-borne diseases.** *Nature sustainability*

Skinner, E. B., Glidden, C. K., MacDonald, A. J., Mordecai, E. A.

2023; 6 (6): 652-661

● **Phylogenetic and biogeographical traits predict unrecognized hosts of zoonotic leishmaniasis.** *PLoS neglected tropical diseases*

Glidden, C. K., Murran, A. R., Silva, R. A., Castellanos, A. A., Han, B. A., Mordecai, E. A.

2023; 17 (5): e0010879

● **A mosquito parasite is locally adapted to its host but not temperature.** *bioRxiv : the preprint server for biology*

Lyberger, K., Farner, J., Couper, L., Mordecai, E. A.

2023

● **Human footprint is associated with shifts in the assemblages of major vector-borne diseases** *NATURE SUSTAINABILITY*

Skinner, E. B., Glidden, C. K., MacDonald, A. J., Mordecai, E. A.

2023

● **Social divisions and risk perception drive divergent epidemics and large later waves** *EVOLUTIONARY HUMAN SCIENCES*

Harris, M. J., Cardenas, K. J., Mordecai, E. A.

2023; 5

● **Social divisions and risk perception drive divergent epidemics and large later waves.** *Evolutionary human sciences*

Harris, M. J., Cardenas, K. J., Mordecai, E. A.

2023; 5: e8

● **Data-driven predictions of potential Leishmania vectors in the Americas.** *PLoS neglected tropical diseases*

Vadmal, G. M., Glidden, C. K., Han, B. A., Carvalho, B. M., Castellanos, A. A., Mordecai, E. A.

2023; 17 (2): e0010749

● **Evaluation of an open forecasting challenge to assess skill of West Nile virus neuroinvasive disease prediction.** *Parasites & vectors*

Holcomb, K. M., Mathis, S., Staples, J. E., Fischer, M., Barker, C. M., Beard, C. B., Nett, R. J., Keyel, A. C., Marcantonio, M., Childs, M. L., Gorris, M. E., Rochlin, I., Hamins-Puertolas, et al

2023; 16 (1): 11

● **Ecological and socioeconomic factors associated with the human burden of environmentally mediated pathogens: a global analysis** *LANCET PLANETARY HEALTH*

Sokolow, S. H., Nova, N., Jones, I. J., Wood, C. L., Lafferty, K. D., Garchitorena, A., Hopkins, S. R., Lund, A. J., MacDonald, A. J., LeBoa, C., Peel, A. J., Mordecai, E. A., Howard, et al

2022; 6 (11): E870-E879

● **Ecological drivers of dog heartworm transmission in California.** *Parasites & vectors*

Couper, L. I., Mordecai, E. A.

2022; 15 (1): 388

● **Not all mosquitoes are created equal: A synthesis of vector competence experiments reinforces virus associations of Australian mosquitoes.** *PLoS neglected tropical diseases*

Kain, M. P., Skinner, E. B., Athni, T. S., Ramirez, A. L., Mordecai, E. A., van den Hurk, A. F.

2022; 16 (10): e0010768

● **Global Change and Emerging Infectious Diseases.** *Annual review of resource economics*

Nova, N., Athni, T. S., Childs, M. L., Mandle, L., Mordecai, E. A.

2022; 14: 333-354

● **Scaling effects of temperature on parasitism from individuals to populations.** *The Journal of animal ecology*

Kirk, D., O'Connor, M. I., Mordecai, E. A.
2022

● **Global Health Needs Modernized Containment Strategies to Prepare for the Next Pandemic.** *Frontiers in public health*

Seetah, K., Moots, H., Pickel, D., Van Cant, M., Cianciosi, A., Mordecai, E., Cullen, M., Maldonado, Y.
2022; 10: 834451

● **Global Health Impacts for Economic Models of Climate Change: A Systematic Review and Meta-Analysis.** *Annals of the American Thoracic Society*

Cromar, K. R., Anenberg, S. C., Balmes, J. R., Fawcett, A. A., Ghazipura, M., Gohlke, J. M., Hashizume, M., Howard, P., Lavigne, E., Levy, K., Madrigano, J., Martinich, J. A., Mordecai, et al
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● **Global Change and Emerging Infectious Diseases ANNUAL REVIEW OF RESOURCE ECONOMICS**

Nova, N., Athni, T. S., Childs, M. L., Mandle, L., Mordecai, E. A.
2022; 14: 333-354

● **Ecological and socioeconomic factors associated with the human burden of environmentally mediated pathogens: a global analysis.** *The Lancet. Planetary health*

Sokolow, S. H., Nova, N., Jones, I. J., Wood, C. L., Lafferty, K. D., Garchitorena, A., Hopkins, S. R., Lund, A. J., MacDonald, A. J., LeBoa, C., Peel, A. J., Mordecai, E. A., Howard, et al
2022; 6 (11): e870-e879

● **Physiology and ecology combine to determine host andvector importance for Ross River virus.** *eLife*

Kain, M. P., Skinner, E. B., van den Hurk, A. F., McCallum, H., Mordecai, E. A.
2021; 10

● **How will mosquitoes adapt to climate warming?** *eLife*

Couper, L. I., Farner, J. E., Caldwell, J. M., Childs, M. L., Harris, M. J., Kirk, D. G., Nova, N., Shocket, M., Skinner, E. B., Uricchio, L. H., Exposito-Alonso, M., Mordecai, E. A.
2021; 10

● **Understanding the emergence of contingent and deterministic exclusion in multispecies communities** *ECOLOGY LETTERS*

Song, C., Uricchio, L. H., Mordecai, E. A., Saavedra, S.
2021

● **Effects of changes in temperature on Zika dynamics and control.** *Journal of the Royal Society, Interface*

Ngonghala, C. N., Ryan, S. J., Tesla, B., Demakovsky, L. R., Mordecai, E. A., Murdock, C. C., Bonds, M. H.
2021; 18 (178): 20210165

● **The interplay of policy, behavior, and socioeconomic conditions in early COVID-19 epidemiology in Georgia.** *medRxiv : the preprint server for health sciences*

Harris, M. J., Tessier-Lavigne, E., Mordecai, E. A.
2021

● **Native perennial and non-native annual grasses shape pathogen community composition and disease severity in a California grassland.** *The Journal of ecology*

Kendig, A. E., Spear, E. R., Daws, S. C., Flory, S. L., Mordecai, E. A.
2021; 109 (2): 900-912

● **The influence of vector-borne disease on human history: socio-ecological mechanisms.** *Ecology letters*

Athni, T. S., Shocket, M. S., Couper, L. I., Nova, N., Caldwell, I. R., Caldwell, J. M., Childress, J. N., Childs, M. L., De Leo, G. A., Kirk, D. G., MacDonald, A. J., Olivarius, K., Pickel, et al
2021

● **Climate predicts geographic and temporal variation in mosquito-borne disease dynamics on two continents.** *Nature communications*

Caldwell, J. M., LaBeaud, A. D., Lambin, E. F., Stewart-Ibarra, A. M., Ndenga, B. A., Mutuku, F. M., Krystosik, A. R., Ayala, E. B., Anyamba, A., Borbor-Cordova, M. J., Damoah, R., Grossi-Soyster, E. N., Heras, et al
2021; 12 (1): 1233

- **Environmental Drivers of Vector-Borne Diseases** *POPULATION BIOLOGY OF VECTOR-BORNE DISEASES*
Shocket, M. S., Anderson, C. B., Caldwell, J. M., Childs, M. L., Couper, L. I., Han, S., Harris, M. J., Howard, M. E., Kain, M. P., MacDonald, A. J., Nova, N., Mordecai, E. A., Drake, et al
2021: 85-118
- **Household and climate factors influence Aedes aegypti presence in the arid city of Huaquillas, Ecuador.** *PLoS neglected tropical diseases*
Martin, J. L., Lippi, C. A., Stewart-Ibarra, A. M., Ayala, E. B., Mordecai, E. A., Sippy, R., Heras, F. H., Blackburn, J. K., Ryan, S. J.
2021; 15 (11): e0009931
- **The impact of long-term non-pharmaceutical interventions on COVID-19 epidemic dynamics and control: the value and limitations of early models.** *Proceedings. Biological sciences*
Childs, M. L., Kain, M. P., Harris, M. J., Kirk, D., Couper, L., Nova, N., Delwel, I., Ritchie, J., Becker, A. D., Mordecai, E. A.
2021; 288 (1957): 20210811
- **Response to Valle and Zorello Laporta: Clarifying the Use of Instrumental Variable Methods to Understand the Effects of Environmental Change on Infectious Disease Transmission.** *The American journal of tropical medicine and hygiene*
MacDonald, A. J., Mordecai, E. A.
2021
- **Human-mediated impacts on biodiversity and the consequences for zoonotic disease spillover.** *Current biology : CB*
Glidden, C. K., Nova, N., Kain, M. P., Lagerstrom, K. M., Skinner, E. B., Mandle, L., Sokolow, S. H., Plowright, R. K., Dirzo, R., De Leo, G. A., Mordecai, E. A.
2021; 31 (19): R1342-R1361
- **Chopping the tail: How preventing superspreading can help to maintain COVID-19 control.** *Epidemics*
Kain, M. P., Childs, M. L., Becker, A. D., Mordecai, E. A.
2020; 34: 100430
- **Susceptible host availability modulates climate effects on dengue dynamics.** *Ecology letters*
Nova, N., Deyle, E. R., Shocket, M. S., MacDonald, A. J., Childs, M. L., Rypdal, M., Sugihara, G., Mordecai, E. A.
2020
- **Habitat type and interannual variation shape unique fungal pathogen communities on a California native bunchgrass** *FUNGAL ECOLOGY*
Farner, J. E., Spear, E. R., Mordecai, E. A.
2020; 48
- **Habitat type and interannual variation shape unique fungal pathogen communities on a California native bunchgrass.** *Fungal ecology*
Farner, J. E., Spear, E. R., Mordecai, E. A.
2020; 48
- **Impact of prior and projected climate change on US Lyme disease incidence.** *Global change biology*
Couper, L. I., MacDonald, A. J., Mordecai, E. A.
2020
- **Native perennial and non-native annual grasses shape pathogen community composition and disease severity in a California grassland** *JOURNAL OF ECOLOGY*
Kendig, A. E., Spear, E. R., Daws, S., Flory, S., Mordecai, E. A.
2020
- **Climate change could shift disease burden from malaria to arboviruses in Africa** *LANCET PLANETARY HEALTH*
Mordecai, E. A., Ryan, S. J., Caldwell, J. M., Shah, M. M., LaBeaud, A.
2020; 4 (9): E416–E423
- **Spatial and Temporal Changes in Nesting Behavior by Black Skimmers (*Rynchops niger*) in New Jersey, USA, from 1976-2019** *WATERBIRDS*
Tattoni, D., Mordecai, E. A., Stantial, M. L.
2020; 43 (3-4): 307-313
- **Age influences the thermal suitability of *Plasmodium falciparum* transmission in the Asian malaria vector *Anopheles stephensi*** *PROCEEDINGS OF THE ROYAL SOCIETY B-BIOLOGICAL SCIENCES*
Miazgowicz, K. L., Shocket, M. S., Ryan, S. J., Villena, O. C., Hall, R. J., Owen, J., Adanlawo, T., Balaji, K., Johnson, L. R., Mordecai, E. A., Murdock, C. C.
2020; 287 (1931): 20201093

- **AeDES: a next-generation monitoring and forecasting system for environmental suitability of Aedes-borne disease transmission** *SCIENTIFIC REPORTS*
Munoz, A. G., Chourio, X., Riviere-Cinnamond, A., Diuk-Wasser, M. A., Kache, P. A., Mordecai, E. A., Harrington, L., Thomson, M. C.
2020; 10 (1): 12640
- **The Role of Vector Trait Variation in Vector-Borne Disease Dynamics.** *Frontiers in ecology and evolution*
Cator, L. J., Johnson, L. R., Mordecai, E. A., Moustaid, F. E., Smallwood, T. R., LaDeau, S. L., Johansson, M. A., Hudson, P. J., Boots, M., Thomas, M. B., Power, A. G., Pawar, S.
2020; 8
- **Chopping the tail: how preventing superspreading can help to maintain COVID-19 control.** *medRxiv : the preprint server for health sciences*
Kain, M. P., Childs, M. L., Becker, A. D., Mordecai, E. A.
2020
- **Climate change could shift disease burden from malaria to arboviruses in Africa.** *The Lancet. Planetary health*
Mordecai, E. A., Ryan, S. J., Caldwell, J. M., Shah, M. M., LaBeaud, A. D.
2020; 4 (9): e416–e423
- **Transmission of West Nile and five other temperate mosquito-borne viruses peaks at temperatures between 23°C and 26°C.** *eLife*
Shocket, M. S., Verwillow, A. B., Numazu, M. G., Slamani, H., Cohen, J. M., El Moustaid, F., Rohr, J., Johnson, L. R., Mordecai, E. A.
2020; 9
- **Warming temperatures could expose more than 1.3 billion new people to Zika virus risk by 2050.** *Global change biology*
Ryan, S. J., Carlson, C. J., Tesla, B. n., Bonds, M. H., Ngonghala, C. N., Mordecai, E. A., Johnson, L. R., Murdock, C. C.
2020
- **An open challenge to advance probabilistic forecasting for dengue epidemics (vol 116, pg 24268, 2019)** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*
Johansson, M. A., Apfeldorf, K. M., Dobson, S., Devita, J., Buczak, A. L., Baugher, B., Moniz, L. J., Bagley, T., Babin, S. M., Guven, E., Yamana, T. K., Shaman, J., Moschou, et al
2019; 116 (51): 26087–88
- **Towards common ground in the biodiversity-disease debate.** *Nature ecology & evolution*
Rohr, J. R., Civitello, D. J., Halliday, F. W., Hudson, P. J., Lafferty, K. D., Wood, C. L., Mordecai, E. A.
2019
- **An open challenge to advance probabilistic forecasting for dengue epidemics.** *Proceedings of the National Academy of Sciences of the United States of America*
Johansson, M. A., Apfeldorf, K. M., Dobson, S., Devita, J., Buczak, A. L., Baugher, B., Moniz, L. J., Bagley, T., Babin, S. M., Guven, E., Yamana, T. K., Shaman, J., Moschou, et al
2019
- **Amazon deforestation drives malaria transmission, and malaria burden reduces forest clearing.** *Proceedings of the National Academy of Sciences of the United States of America*
MacDonald, A. J., Mordecai, E. A.
2019
- **Mosquito and primate ecology predict human risk of yellow fever virus spillover in Brazil.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*
Childs, M. L., Nova, N., Colvin, J., Mordecai, E. A.
2019; 374 (1782): 20180335
- **Dynamic and integrative approaches to understanding pathogen spillover.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*
Becker, D. J., Washburne, A. D., Faust, C. L., Pulliam, J. R., Mordecai, E. A., Lloyd-Smith, J. O., Plowright, R. K.
2019; 374 (1782): 20190014
- **The problem of scale in the prediction and management of pathogen spillover.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*
Becker, D. J., Washburne, A. D., Faust, C. L., Mordecai, E. A., Plowright, R. K.
2019; 374 (1782): 20190224
- **Thermal biology of mosquito-borne disease.** *Ecology letters*

Mordecai, E. A., Caldwell, J. M., Grossman, M. K., Lippi, C. A., Johnson, L. R., Neira, M., Rohr, J. R., Ryan, S. J., Savage, V., Shocket, M. S., Sippy, R., Stewart Ibarra, A. M., Thomas, et al
2019

● **A global test of ecoregions (vol 2, pg 1889, 2018) *NATURE ECOLOGY & EVOLUTION***

Smith, J. R., Letten, A. D., Ke, P., Anderson, C. B., Hendershot, J., Dhami, M. K., Dlott, G. A., Grainger, T. N., Howard, M. E., Morrison, B. L., Routh, D., San Juan, P. A., Mooney, et al
2019; 3 (4): 708

● **Author Correction: A global test of ecoregions. *Nature ecology & evolution***

Smith, J. R., Letten, A. D., Ke, P., Anderson, C. B., Hendershot, J. N., Dhami, M. K., Dlott, G. A., Grainger, T. N., Howard, M. E., Morrison, B. M., Routh, D., San Juan, P. A., Mooney, et al
2019

● **Global expansion and redistribution of Aedes-borne virus transmission risk with climate change *PLOS NEGLECTED TROPICAL DISEASES***

Ryan, S. J., Carlson, C. J., Mordecai, E. A., Johnson, L. R.
2019; 13 (3)

● **Priority Effects and Nonhierarchical Competition Shape Species Composition in a Complex Grassland Community *AMERICAN NATURALIST***

Uricchio, L. H., Daws, S., Spear, E. R., Mordecai, E. A.
2019; 193 (2): 213–26

● **ENVIRONMENTAL AND DEMOGRAPHIC RISK FACTORS FOR AEDES AEGYPTI VECTOR PERSISTENCE IN URBAN AND RURAL KENYA**

Nyathi, S., Ngugi, H. N., Krystosik, A., Ndenga, B., Bisanzio, D., Kitron, U., Mordecai, E., LaBeaud, D., Mutuku, F.
AMER SOC TROP MED & HYGIENE.2019: 445

● **Climate drives spatial variation in Zika epidemics in Latin America. *Proceedings. Biological sciences***

Harris, M. n., Caldwell, J. M., Mordecai, E. A.
2019; 286 (1909): 20191578

● **Global expansion and redistribution of Aedes-borne virus transmission risk with climate change. *PLoS neglected tropical diseases***

Ryan, S. J., Carlson, C. J., Mordecai, E. A., Johnson, L. R.
2019; 13 (3): e0007213

● **Malaria smear positivity among Kenyan children peaks at intermediate temperatures as predicted by ecological models. *Parasites & vectors***

Shah, M. M., Krystosik, A. R., Ndenga, B. A., Mutuku, F. M., Caldwell, J. M., Otuka, V. n., Chebii, P. K., Maina, P. W., Jembe, Z. n., Ronga, C. n., Bisanzio, D. n., Anyamba, A. n., Damoah, et al
2019; 12 (1): 288

● **PREDICTING SPILLOVER OF YELLOW FEVER VIRUS TO HUMANS USING VECTOR AND PRIMATE ECOLOGY**

Childs, M. L., Nova, N., Colvin, J., Mordecai, E. A.
AMER SOC TROP MED & HYGIENE.2019: 411

● **CLIMATE CHANGE COULD EXPOSE 1.3 BILLION NEW PEOPLE TO ZIKA VIRUS TRANSMISSION RISK BY 2050**

Ryan, S., Carlson, C. J., Tesla, B., Bonds, M. H., Ngonghala, C. N., Mordecai, E. A., Johnson, L. R., Murdock, C. C.
AMER SOC TROP MED & HYGIENE.2019: 439

● **TEMPERATURE DRIVES MALARIA TRANSMISSION: IMPLICATIONS FOR DISEASE CONTROL**

Murdock, C., Miazgowicz, K., Mordecai, E., Ryan, S., Hall, R.
AMER SOC TROP MED & HYGIENE.2019: 472

● **IMPACT OF HOUSEHOLD CHARACTERISTICS ON AEDES AEGYPTI ABUNDANCE IN RURAL ECUADOR**

Sippy, R., Heras, F., Ibarra, A., Ryan, S., Mordecai, E.
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