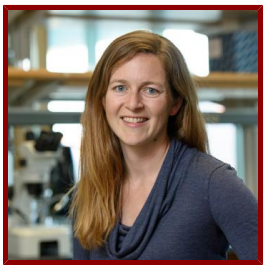
Stanford



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

- Affiliate, Stanford Center for Human and Planetary Health
- 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

2025-26

- Biology PhD Lab Rotation: BIO 299 (Aut, Win, Spr)
- Disease Ecology: BIO 176, BIO 276 (Aut)

2024-25

- Disease Ecology: BIO 176, BIO 276 (Aut)
- Ecology and Evolution of Infectious Disease in a Changing World: BIO 2N (Spr)

2023-24

- Introduction to Ecology: BIO 81 (Aut)

2022-23

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

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Johannah Farner, Rachel Fay, Samantha Sambado

Doctoral Dissertation Advisor (AC)

Isabel Delwel, Desire Nalukwago

Doctoral Dissertation Co-Advisor (AC)

Samantha Bents, Emma Krasovich Southworth, Chirag Kumar, Joshua Lazaro, Aly Singleton

Undergraduate Major Advisor

Alex Mondragon

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

Publications

PUBLICATIONS

- **Extreme precipitation, exacerbated by anthropogenic climate change, drove Peru's record-breaking 2023 dengue outbreak** *ONE EARTH*
  Harris, M. J., Trok, J. T., Martel, K. S., Borbor-Cordova, M. J., Diffenbaugh, N. S., Munayco, C. V., Lescano, A. G., Mordecai, E. A.
  2026; 9 (4)

- **Rural dengue dynamics: the interplay of climate, built environment, and agriculture in Costa Rica.** *medRxiv : the preprint server for health sciences*
  Glidden, C., Southworth, E. K., Shragai, T., Rojas-Araya, D., Troyo, A., Chaves-González, L. E., Marín, R., Vargas, I., Mordecai, E.
  2026

- **A flexible model for thermal performance curves.** *Ecology*
  Cruz-Loya, M., Mordecai, E. A., Savage, V. M.
  2026; 107 (2): e70251

- **Nonlinear effects of temperature on mosquito parasite infection across a large geographic climate gradient.** *Ecology*
  Farner, J. E., Lyberger, K. P., Couper, L. I., Cruz-Loya, M., Mordecai, E. A.
  2026; 107 (2): e70307

- **Investigating the Yanomami malaria outbreak: gold mining and malaria.** *Biology letters*
  de Angeli Dutra, D., Fontes, J., Braga, É. M., Mordecai, E.
  2026; 22 (1)

- **Geographic origin and evolution of dengue virus serotypes 1 and 3 circulating in Africa.** *Virus evolution*
  Nyathi, S., Rezende, I. M., Walter, K. S., Thongsripong, P., Mutuku, F., Ndenga, B., Mbakaya, J. O., Agola, G., Vu, D. M., Bennett, S., Mordecai, E. A., Andrews, J. R., LaBeaud, et al
  2025; 11 (1): veae116

- **Ecological suitability of Japanese encephalitis virus in Australia: A modelling analysis of vector-host transmission dynamics to potential spillover in humans.** *PLoS neglected tropical diseases*
  Skinner, E. B., Sartorius, B., Furuya-Kanamori, L., Craig, A. T., Kiani, B., Johnson, B. J., Moore, K. T., Hickson, R. I., Mordecai, E. A., Devine, G., Lau, C. L.
  2025; 19 (11): e0013722

- **GeneDrive.jl: A decision tool to optimize biological vector control strategies under climate change.** *PLoS computational biology*
  Vásquez, V. N., Mordecai, E. A., Anthoff, D.
  2025; 21 (10): e1013600

- **A Scoping Review of Mosquito Vector Range Shifts: Widespread Expansions and Evidence Gaps in Climate Attribution.** *Global change biology*
  Lyberger, K., Robinson, A. R., Couper, L., Delwel, I., Glidden, C., Qian, C., Burslem, A., Fernandez, F., Gao, B., Garcia, G., Gomez, J., Greenland, K. B., Griffin, et al
  2025; 31 (10): e70551

- **Climate warming is expanding dengue burden in the Americas and Asia.** *Proceedings of the National Academy of Sciences of the United States of America*
  Childs, M. L., Lyberger, K., Harris, M. J., Burke, M., Mordecai, E. A.
  2025; 122 (37): e2512350122

- **Rising temperatures contribute to West Nile virus diversification and increased transmission potential.** *Scientific reports*
  Fay, R. L., Cruz-Loya, M., Maffei, J. G., Mordecai, E. A., Ciota, A. T.
  2025; 15 (1): 25016

- **Molecules to spillover: how climate warming impacts mosquito-borne viruses.** *Current opinion in virology*
  Delwel, I. O., Mordecai, E. A.
  2025; 72: 101473

- **Local tree cover predicts mosquito species richness and disease vector presence in a tropical countryside landscape** *LANDSCAPE ECOLOGY*

Farner, J. E., Howard, M., Smith, J. R., Anderson, C. B., Mordecai, E. A.
2025; 40 (6): 111

- **Non-household environments make a major contribution to dengue transmission: implications for vector control.** *Royal Society open science*
  Peña-García, V. H., LaBeaud, A. D., Ndenga, B. A., Mutuku, F. M., Bisanzio, D., Andrews, J. R., Mordecai, E. A.
  2025; 12 (4): 241919
- **Why the growth of arboviral diseases necessitates a new generation of global risk maps and future projections.** *PLoS computational biology*
  Brady, O. J., Bastos, L. S., Caldwell, J. M., Cauchemez, S., Clapham, H. E., Dorigatti, I., Gaythorpe, K. A., Hu, W., Hussain-Alkhateeb, L., Johansson, M. A., Lim, A., Lopez, V. K., Maude, et al
  2025; 21 (4): e1012771
- **A systematic review of climate-change driven range shifts in mosquito vectors.** *bioRxiv : the preprint server for biology*
  Lyberger, K., Robinson, A. R., Couper, L., Delwel, I., Glidden, C., Qian, C., Burslem, A., Fernandez, F., Gao, B., Garcia, G., Gomez, J., Griffin, C., Jackson, et al
  2025
- **Seasonal temperature fluctuation and snail adaptive behaviors yield insights into the dynamics and distribution of schistosomiasis in Africa.** *Research square*
  Aslan, I. H., Pourtois, J. D., Frans, V. F., Forstchen, M., Goodman, M. C., Chamberlin, A. J., Mitchell, K. R., Mari, L., Lo, N. C., Lwiza, K. M., Diakite, N. R., Ouattara, M., N'Goran, et al
  2025
- **Evolutionary adaptation under climate change: Aedes sp. demonstrates potential to adapt to warming.** *Proceedings of the National Academy of Sciences of the United States of America*
  Couper, L. I., Dodge, T. O., Hemker, J. A., Kim, B. Y., Exposito-Alonso, M., Brem, R. B., Mordecai, E. A., Bitter, M. C.
  2025; 122 (2): e2418199122
- **Impacts of Weather Anomalies and Climate on Plant Disease.** *Ecology letters*
  Kirk, D., Cohen, J. M., Nguyen, V., Childs, M. L., Farner, J. E., Davies, T. J., Flory, S. L., Rohr, J. R., O'Connor, M. I., Mordecai, E. A.
  2025; 28 (1): e70062
- **Mobility and non-household environments: understanding dengue transmission patterns in urban contexts.** *medRxiv : the preprint server for health sciences*
  Peña-García, V. H., Ndenga, B. A., Mutuku, F. M., Bisanzio, D., LaBeaud, A. D., Mordecai, E. A.
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- **How Much Warming Can Mosquito Vectors Tolerate?** *Global change biology*
  Couper, L. I., Nalukwago, D. U., Lyberger, K. P., Farner, J. E., Mordecai, E. A.
  2024; 30 (12): e17610
- **Associations between weather and Plasmodium vivax malaria in an elimination setting in Peru: a distributed lag analysis.** *medRxiv : the preprint server for health sciences*
  Heitmann, G. B., Wu, X., Nguyen, A. T., Altamirano-Quiroz, A., Fine, S., Fernandez-Camacho, B., Barja, A., Cava, R., Soto-Calle, V., Rodriguez, H., Carrasco-Escobar, G., Bennett, A., Llanos-Cuentas, et al
  2024
- **Highway paving dramatically increased dengue transmission in the Amazon.** *medRxiv : the preprint server for health sciences*
  Singleton, A. L., Lescano, A. G., MacDonald, A. J., Mandle, L., Sipin, T. J., Martel, K. S., Munayco, C. V., Carrera, E. D., Choque, G. A., Bautista, A. S., Luby, S. P., Mordecai, E. A.
  2024
- **Extreme precipitation, exacerbated by anthropogenic climate change, drove Peru's record-breaking 2023 dengue outbreak.** *medRxiv : the preprint server for health sciences*
  Harris, M. J., Trok, J. T., Martel, K. S., Borbor Cordova, M. J., Diffenbaugh, N. S., Munayco, C. V., Lescano, A. G., Mordecai, E. A.
  2024
- **Temperature dependence of mosquitoes: Comparing mechanistic and machine learning approaches.** *PLoS neglected tropical diseases*
  Athni, T. S., Childs, M. L., Glidden, C. K., Mordecai, E. A.
  2024; 18 (9): e0012488

- **Molecular epidemiology and evolutionary characteristics of dengue virus 2 in East Africa.** *Nature communications*
  Nyathi, S., Rezende, I. M., Walter, K. S., Thongsripong, P., Mutuku, F., Ndenga, B., Mbakaya, J. O., Aswani, P., Musunzaji, P. S., Chebii, P. K., Maina, P. W., Mutuku, P. S., Ng'ang'a, et al
  2024; 15 (1): 7832

- **Evolutionary adaptation under climate change:Aedessp. demonstrates potential to adapt to warming.** *bioRxiv : the preprint server for biology*
  Couper, L. I., Dodge, T. O., Hemker, J. A., Kim, B. Y., Exposito-Alonso, M., Brem, R. B., Mordecai, E. A., Bitter, M. C.
  2024

- **A flexible model for thermal performance curves.** *bioRxiv : the preprint server for biology*
  Cruz-Loya, M., Mordecai, E. A., Savage, V. M.
  2024

- **A Mosquito Parasite Is Locally Adapted to Its Host but Not Temperature** *AMERICAN NATURALIST*
  Lyberger, K., Farner, J., Couper, L., Mordecai, E. A.
  2024

- **Plasticity in mosquito size and thermal tolerance across a latitudinal climate gradient.** *The Journal of animal ecology*
  Lyberger, K., Farner, J. E., Couper, L., Mordecai, E. A.
  2024

- **Population-specific thermal responses contribute to regional variability in arbovirus transmission with changing climates.** *iScience*
  Fay, R. L., Cruz-Loya, M., Keyel, A. C., Price, D. C., Zink, S. D., Mordecai, E. A., Ciota, A. T.
  2024; 27 (6): 109934

- **Climate and urbanization drive changes in the habitat suitability of Schistosoma mansoni competent snails in Brazil.** *Nature communications*
  Glidden, C. K., Singleton, A. L., Chamberlin, A., Tuan, R., Palasio, R. G., Caldeira, R. L., Monteiro, A. M., Lwiza, K. M., Liu, P., Silva, V., Athni, T. S., Sokolow, S. H., Mordecai, et al
  2024; 15 (1): 4838

- **Re-assessing thermal response of schistosomiasis transmission risk: Evidence for a higher thermal optimum than previously predicted.** *PLoS neglected tropical diseases*
  Aslan, I. H., Pourtois, J. D., Chamberlin, A. J., Mitchell, K. R., Mari, L., Lwiza, K. M., Wood, C. L., Mordecai, E. A., Yu, A., Tuan, R., Palasio, R. G., Monteiro, A. M., Kirk, et al
  2024; 18 (6): e0011836

- **Investigating the Yanomami malaria outbreak puzzle: surge in mining during Bolsonaro's government triggered peak in malaria burden.** *Research square*
  de Angeli Dutra, D., Fontes, C., Braga, E., Mordecai, E.
  2024

- **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

- **Species distribution modeling for disease ecology: A multi-scale case study for schistosomiasis host snails in Brazil.** *PLOS global public health*
  Singleton, A. L., Glidden, C. K., Chamberlin, A. J., Tuan, R., Palasio, R. G., Pinter, A., Caldeira, R. L., Mendonca, C. L., Carvalho, O. S., Monteiro, M. V., Athni, T. S., Sokolow, S. H., Mordecai, et al
  2024; 4 (8): e0002224

- **Temperature impacts on dengue incidence are nonlinear and mediated by climatic and socioeconomic factors: A meta-analysis** *PLOS CLIMATE*
  Kirk, D., Straus, S., Childs, M. L., Harris, M., Couper, L., Davies, T., Forbes, C., Gehman, A., Groner, M. L., Harley, C., Lafferty, K. D., Savage, V., Skinner, et al
  2024; 3 (3)

- **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-Puértolas, 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
  1800

- **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

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