

Ilya R. Fischhoff

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EDUCATION

2007 **Princeton University**
PhD in Ecology and Evolutionary Biology

2000 **Harvard College**
AB in Biological Anthropology, magna cum laude with highest honors

PROFESSIONAL APPOINTMENTS

2016-present **Cary Institute of Ecosystem Studies**
Postdoctoral Associate

2013-2016 **U.S. Global Change Research Program**
Senior Scientist, National Climate Assessment

2010-2011 **Congressman Markey & Natural Resources Committee**
AAAS/AGU Congressional Science Fellow

2009-2010 **U.S. Agency for International Development**
AAAS Fellow, Global Climate Change Team

2007-2009 **Princeton University, McMaster University, & Smithsonian Institution**
Postdoctoral Research Fellow

PUBLICATIONS

*Undergraduate co-author

- 2021 Chen, A., Reperant, L., **Fischhoff, I.R.**, Rubenstein, D.I. Increased vigilance of plains zebras (*Equus quagga*) in response to more bush coverage in a Kenyan savanna. *Climate Change Ecology*.
- 2020 **Fischhoff, I.R.**, Huang, T., Hamilton, S.K., Han, B.A., LaDeau, S.L., Ostfeld, R.S., Rosi, E.J., Solomon, C.T. Parasite and pathogen effects on ecosystem processes: a quantitative review. *Ecosphere*

- 2020 Magnusson, M., **Fischhoff, I.**, Ecke, F., Hörnfeldt, B., Ostfeld, R. Effect of spatial scale and latitude on diversity-disease relationships. *Ecology*.
- 2019 **Fischhoff, I.R.**, Bowden, S.E., Keesing, F., and Ostfeld, R. S Systematic review and meta-analysis of tickborne disease risk factors in residential yards, neighborhoods, and beyond. *BMC Infectious Diseases*.
- 2019 **Fischhoff, I.R.**, Keesing, F., and Ostfeld, R. S. Systematic review and meta-analysis of risk factors for bites and diseases transmitted by blacklegged ticks. *American Journal of Epidemiology*.
- 2019 **Fischhoff, I.R.** Assessing Effectiveness of Recommended Residential Yard Management Measures Against Ticks. *Journal of Medical Entomology*.
- 2019 Mowry S., Keesing, F., **Fischhoff, I.R.**, and R.S. Ostfeld. Predicting larval tick burden on white-footed mice with an artificial neural network. *Ecological Informatics*.
- 2018 **Fischhoff, I. R.**, et al. "Tritrophic interactions between a fungal pathogen, a spider predator, and the blacklegged tick." *Ecology and Evolution* 8(16): 7824-7834.
- 2018 Dhawan, R., **Fischhoff, I.R.**, and R.S. Ostfeld. Effects of weather variability on population dynamics of white-footed mice (*Peromyscus leucopus*) and eastern chipmunks (*Tamias striatus*). *Journal of Mammalogy* **99**(6): 1436-1443.
- 2018 Tucker, M.A., et al. Moving in the Anthropocene: Global reductions in terrestrial mammalian movements. *Science* **359**(6374): 466-469.
- 2017 **Fischhoff, I. R.**, F. Keesing and R. S. Ostfeld. "The tick biocontrol agent *Metarhizium brunneum* (= *M. anisopliae*) (strain F52) does not reduce non-target arthropods." *PloS ONE* **12**(11): 15.
- 2015 Rubenstein, D.I., Sundaresan, S.R., **Fischhoff, I.R.**, Tantipathananandh, C. & Berger-Wolf, T.Y. Similar but different: Dynamic social network analysis highlights fundamental differences between the fission-fusion societies of two equid species, the onager and Grevy's zebra. *PLoS ONE*, **10**.
- 2010 **Fischhoff, I.R.**, Sundaresan, S.R., Larkin, H.M.*, Sellier, M.-J.*, Cordingley, J.E. & Rubenstein, D.I. (2010) A rare fight in female plains zebra. *Journal of Ethology*, **28**.
- 2009 Low, B., Sundaresan, S.R., **Fischhoff, I.R.** & Rubenstein, D.I. Partnering with local communities to identify conservation priorities for endangered Grevy's zebra. *Biological Conservation*, **142**.
- 2009 Sundaresan, S.R., **Fischhoff, I.R.** & Dushoff, J. Avoiding spurious findings of nonrandom social structure in association data. *Animal Behaviour*, **77**.

- 2009 Cordingley, J.E., Sundaresan, S.R., **Fischhoff, I.R.**, Shapiro, B., Ruskey, J.* & Rubenstein, D.I. Is the endangered Grevy's zebra threatened by hybridization? *Animal Conservation*, **12**.
- 2009 **Fischhoff, I.R.**, Dushoff, J., Sundaresan, S.R., Cordingley, J.E. & Rubenstein, D.I. Reproductive status influences group size and persistence of bonds in male plains zebra (*Equus burchelli*). *Behavioral Ecology and Sociobiology*, **63**.
- 2008 Sundaresan, S.R., **Fischhoff, I.R.**, Hartung, H.M.*, Akilong, P. & Rubenstein, D.I. Habitat choice of Grevy's zebras (*Equus grevyi*) in Laikipia, Kenya. *African Journal of Ecology*, **46**.
- 2007 **Fischhoff, I.R.**, Sundaresan, S.R., Cordingley, J., Larkin, H.M.*, Sellier, M.-J*. & Rubenstein, D.I. Social relationships and reproductive state influence leadership roles in movements of plains zebra, *Equus burchellii*. *Animal Behaviour*, **73**.
- 2007 **Fischhoff, I.R.**, Sundaresan, S.R., Cordingley, J. & Rubenstein, D.I. Habitat use and movements of plains zebra (*Equus burchelli*) in response to predation danger from lions. *Behavioral Ecology*, **18**.
- 2007 Sundaresan, S.R., **Fischhoff, I.R.**, Dushoff, J. & Rubenstein, D.I. Network metrics reveal differences in social organization between two fission-fusion species, Grevy's zebra and onager. *Oecologia*, **151**.
- 2007 Sundaresan, S.R., **Fischhoff, I.R.** & Rubenstein, D.I. Male harassment influences female movements and associations in Grevy's zebra (*Equus grevyi*). *Behavioral Ecology*, **18**.
- 2002 Löfstedt, R.E., Fischhoff, B. & **Fischhoff, I.R.** Precautionary Principles: General Definitions and Specific Applications to Genetically Modified Organisms. *Journal of Policy Analysis and Management*, **21**.

In press

Fork, M., Anderson, E., Castellanos, A., **Fischhoff, I.**, Matsler, M, Nieman, C., Olesky, I., Wong, M. Creating community: How we collectively built an adaptable postdoctoral program to develop skills and overcome isolation. In press, *Ecosphere*.

Preprints

Fischhoff, I.R.**, Castellanos, A.A.**, Rodrigues, J.P.G.L.M., Varsani, A., Han, B.A. Predicting the zoonotic capacity of mammal species for SARS-CoV-2. *bioRxiv*, in review *PLOS Computational Biology*.

**contributed equally

AWARDS AND HONORS

2014 White House Office of Science & Technology Policy: contributions to National
Climate Assessment