



## Elizabeth Hadly

Paul S. and Billie Achilles Professor of Environmental Biology and Professor of Earth System Science, Emerita

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### Bio

#### ACADEMIC APPOINTMENTS

- Emeritus (Active) Professor, Biology
- Professor, Biology
- Emeritus (Active) Professor, Earth System Science
- Member, Bio-X
- Senior Fellow, Stanford Woods Institute for the Environment

#### ADMINISTRATIVE APPOINTMENTS

- Faculty Director, Jasper Ridge Biological Preserve, (2016-2023)

#### PROFESSIONAL EDUCATION

- Ph.D., Univ. California, Berkeley , Integrative Biology (1995)
- M.S., Northern Arizona University , Quaternary Studies (1990)
- B.A., Univ. Colorado, Boulder , Anthropology (1981)

#### LINKS

- Hadly Lab site: <https://hadlylab.stanford.edu/>

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### Research & Scholarship

#### CURRENT RESEARCH AND SCHOLARLY INTERESTS

ELIZABETH A. HADLY

PROFESSOR, DEPARTMENT OF BIOLOGY

DEPARTMENT OF GEOLOGICAL SCIENCES, BY COURTESY

Professor Hadly uses a combined field and laboratory approach to examine how ecological perturbations link or decouple levels of biological organization, because understanding the links among ecosystems, species, populations and genes is central to understanding how organisms exist, evolve and become extinct. She addresses problems in organismal biology from both evolutionary and ecological perspectives, primarily using extant species. One of the unique aspects of her overall approach is the focus on the decadal to millennial time scale, a scale that is little studied, although it is a scale that is integral to understanding links between ecology and evolution, and increasingly important to understand the impacts of the Anthropocene.

## PROJECTS

- Defining the Anthropocene - Stanford University (1/2018 - present)
- The Insect Apocalypse - Stanford University
- Food webs from feces, soil, and cameras
- Reverse spillover: Animals are impacted by human-shed microbes
- Wild and captive tiger genomic diversity

## Teaching

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### COURSES

#### 2022-23

- Ethics in the Anthropocene: BIO 313 (Spr)

### STANFORD ADVISEES

#### Doctoral Dissertation Reader (AC)

Shirley Jennifer Serrano Rojas

### GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

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

## Publications

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### PUBLICATIONS

- **Limited changes to mammal diel activity during COVID-19 lockdown in an urban preserve** *JOURNAL OF MAMMALOGY*  
Bello Carvalho, R., Frangos, C., Sonawane, C., Hebert, T., Hadly, E. A., Dirzo, R.  
2026
- **The new Anthropocene biosphere.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*  
Barnosky, A., Hadly, E.  
2026; 381 (1942)
- **Temporal Study of Environmental DNA and Acoustic Data Reveals Coexistence of Sympatric Bat Species in a North American Ecosystem** *ENVIRONMENTAL DNA*  
Suresh, V. M., Hebert, T., Verster, K., Hadly, E. A.  
2024; 6 (6)
- **Unraveling the genomic diversity and admixture history of captive tigers in the United States.** *Proceedings of the National Academy of Sciences of the United States of America*  
Armstrong, E. E., Mooney, J. A., Solari, K. A., Kim, B. Y., Barsh, G. S., Grant, V. B., Greenbaum, G., Kaelin, C. B., Panchenko, K., Pickrell, J. K., Rosenberg, N., Ryder, O. A., Yokoyama, et al  
2024; 121 (39): e2402924121
- **Impressive pan-genomic diversity of E. coli from a wild animal community near urban development reflects human impacts.** *iScience*  
Lagerstrom, K. M., Scales, N. C., Hadly, E. A.  
2024; 27 (3): 109072
- **Multiple invasion routes have led to the pervasive introduction of earthworms in North America.** *Nature ecology & evolution*  
Mathieu, J., Reynolds, J. W., Fragoso, C., Hadly, E.  
2024
- **Exploring climate-induced sex-based differences in aquatic and terrestrial ecosystems to mitigate biodiversity loss.** *Nature communications*  
Gissi, E., Schiebinger, L., Hadly, E. A., Crowder, L. B., Santoleri, R., Micheli, F.

2023; 14 (1): 4787

- **Should We Bring Species Back From Extinction** *NATION*  
Hysolli, E., Hadly, E. A., Sivas, D. A.  
2023; 316 (12): 13-14
- **Under-Appreciated Phylogroup Diversity of *Escherichia coli* within and between Animals at the Urban-Wildland Interface.** *Applied and environmental microbiology*  
Lagerstrom, K. M., Hadly, E. A.  
2023: e0014223
- **Witnessing history: comparison of a century of sedimentary and written records in a California protected area.** *Regional environmental change*  
Scott Anderson, R., Allison Stegner, M., La Selle, S., Sherrod, B., Barnosky, A. D., Hadly, E. A.  
2023; 23 (2): 65
- **The Searsville Lake Site (California, USA) as a candidate Global boundary Stratotype Section and Point for the Anthropocene series.** *The anthropocene review*  
Stegner, M. A., Hadly, E. A., Barnosky, A. D., La Selle, S., Sherrod, B., Anderson, R. S., Redondo, S. A., Viteri, M. C., Weaver, K. L., Cundy, A. B., Gaca, P., Rose, N. L., Yang, et al  
2023; 10 (1): 116-145
- **Bothersome burrowers: Tracking the impact of Botta's pocket gopher (*Thomomys bottae*) bioturbation on a late-Holocene site** *JOURNAL OF ARCHAEOLOGICAL SCIENCE-REPORTS*  
Viteri, M. C., Stegner, M., Hadly, E. A.  
2023; 48
- **The Searsville Lake Site (California, USA) as a candidate Global Boundary Stratotype Section and Point for the Anthropocene Series** *ANTHROPOCENE REVIEW*  
Stegner, M., Hadly, E. A., Barnosky, A. D., La Selle, S., Sherrod, B., Anderson, R., Redondo, S. A., Viteri, M. C., Weaver, K. L., Cundy, A. B., Gaca, P., Rose, N. L., Yang, et al  
2023
- **Genome Report: Chromosome-level draft assemblies of the snow leopard, African leopard, and tiger (*Panthera uncia*, *Panthera pardus pardus*, and *Panthera tigris*).** *G3 (Bethesda, Md.)*  
Armstrong, E. E., Campana, M. G., Solari, K. A., Morgan, S. R., Ryder, O. A., Naude, V. N., Samelius, G., Sharma, K., Hadly, E. A., Petrov, D. A.  
2022
- **Spatiotemporal impacts of the Anthropocene on small mammal communities, and the role of small biological preserves in maintaining biodiversity** *FRONTIERS IN ECOLOGY AND EVOLUTION*  
Viteri, M. C., Hadly, E. A.  
2022; 10
- **From coral reefs to Joshua trees: What ecological interactions teach us about the adaptive capacity of biodiversity in the Anthropocene.** *Philosophical transactions of the Royal Society of London. Series B, Biological sciences*  
Lagerstrom, K. M., Vance, S., Cornwell, B. H., Ruffley, M., Bellagio, T., Exposito-Alonso, M., Palumbi, S. R., Hadly, E. A.  
2022; 377 (1857): 20210389
- **Planetary-scale change to the biosphere signalled by global species translocations can be used to identify the Anthropocene** *PALAEONTOLOGY*  
Williams, M., Leinfelder, R., Barnosky, A. D., Head, M. J., McCarthy, F. M. G., Cearreta, A., Himson, S., Holmes, R., Waters, C. N., Zalasiewicz, J., Turner, S., McGann, M., Hadly, et al  
2022; 65 (4)
- **Stable isotopes reveal seasonal dietary responses to agroforestry in a venomous mammal, the Hispaniolan solenodon (*Solenodon paradoxus*).** *Ecology and evolution*  
Mychajliw, A. M., Almonte, J. N., Martinez, P. A., Hadly, E. A.  
2022; 12 (3): e8761
- **Muskrats as a bellwether of a drying delta.** *Communications biology*  
Ward, E. M., Solari, K. A., Varudkar, A., Gorelick, S. M., Hadly, E. A.  
2021; 4 (1): 750

- **The under-investigated wild side of *Escherichia coli*: genetic diversity, pathogenicity and antimicrobial resistance in wild animals.** *Proceedings. Biological sciences*  
Lagerstrom, K. M., Hadly, E. A.  
2021; 288 (1948): 20210399
- **Recent evolutionary history of tigers highlights contrasting roles of genetic drift and selection.** *Molecular biology and evolution*  
Armstrong, E. E., Khan, A. n., Taylor, R. W., Gouy, A. n., Greenbaum, G. n., Thiéry, A. n., Kang, J. T., Redondo, S. A., Prost, S. n., Barsh, G. n., Kaelin, C. n., Phalke, S. n., Chugani, et al  
2021
- **Assessing the reliability of raptor pellets in recording local small mammal diversity** *Quaternary Research*  
Viteri, M.  
2021
- **Molecular Ecological Network Analyses: An Effective Conservation Tool for the Assessment of Biodiversity, Trophic Interactions, and Community Structure** *FRONTIERS IN ECOLOGY AND EVOLUTION*  
Meyer, J. M., Leempoel, K., Losapio, G., Hadly, E. A.  
2020; 8
- **A comparison of eDNA to camera trapping for assessment of terrestrial mammal diversity.** *Proceedings. Biological sciences*  
Leempoel, K., Hebert, T., Hadly, E. A.  
2020; 287 (1918): 20192353
- **Long live the king: chromosome-level assembly of the lion (*Panthera leo*) using linked-read, Hi-C, and long-read data.** *BMC biology*  
Armstrong, E. E., Taylor, R. W., Miller, D. E., Kaelin, C. B., Barsh, G. S., Hadly, E. A., Petrov, D.  
2020; 18 (1): 3
- **Experimental study of hypoxia-induced changes in gene expression in an Asian pika, *Ochotona dauurica*.** *PLoS one*  
Solari, K. A., Hadly, E. A.  
2020; 15 (10): e0240435
- **Empowering conservation practice with efficient and economical genotyping from poor quality samples** *METHODS IN ECOLOGY AND EVOLUTION*  
Natesh, M., Taylor, R. W., Truelove, N. K., Hadly, E. A., Palumbi, S. R., Petrov, D. A., Ramakrishnan, U.  
2019; 10 (6): 853–59
- **Empowering conservation practice with efficient and economical genotyping from poor quality samples.** *Methods in ecology and evolution*  
Natesh, M., Taylor, R. W., Truelove, N. K., Hadly, E. A., Palumbi, S. R., Petrov, D. A., Ramakrishnan, U.  
2019; 10 (6): 853-859
- **Gene expression is implicated in the ability of pikas to occupy Himalayan elevational gradient** *PLOS ONE*  
Solari, K. A., Ramakrishnan, U., Hadly, E. A.  
2018; 13 (12)
- **Global fingerprint of humans on the distribution of *Bartonella* bacteria in mammals.** *PLoS neglected tropical diseases*  
Frank, H. K., Boyd, S. D., Hadly, E. A.  
2018; 12 (11): e0006865
- **Global fingerprint of humans on the distribution of *Bartonella* bacteria in mammals** *PLOS NEGLECTED TROPICAL DISEASES*  
Frank, H. K., Boyd, S. D., Hadly, E. A.  
2018; 12 (11)
- **Evolution for extreme living: variation in mitochondrial cytochrome c oxidase genes correlated with elevation in pikas (genus *Ochotona*)** *INTEGRATIVE ZOOLOGY*  
Solari, K. A., Hadly, E. A.  
2018; 13 (5): 517–35
- **Evolution for extreme living: variation in mitochondrial cytochrome c oxidase genes correlated with elevation in pikas (genus *Ochotona*).** *Integrative zoology*  
Solari, K. A., Hadly, E. A.

2018

- **Making America great again requires acting on scientific knowledge.** *PLoS biology*  
Hadly, E. A.  
2018; 16 (2): e2004337
- **Making America great again requires acting on scientific knowledge** *PLOS BIOLOGY*  
Hadly, E. A.  
2018; 16 (2)
- **Rethinking "Native" in the Anthropocene** *Frontiers in Earth Science*  
Hill, A. P., Hadly, E. A.  
2018; 6: 1-4
- **Gene expression is implicated in the ability of pikas to occupy Himalayan elevational gradient.** *PLoS one*  
Solari, K. A., Ramakrishnan, U., Hadly, E. A.  
2018; 13 (12): e0207936
- **Genomic data reveal a loss of diversity in two species of tucotucos (genus *Ctenomys*) following a volcanic eruption** *SCIENTIFIC REPORTS*  
Hsu, J. L., Crawford, J., Tammore, M. N., Ramakrishnan, U., Lacey, E. A., Hadly, E. A.  
2017; 7
- **Genomic data reveal a loss of diversity in two species of tuco-tucos (genus *Ctenomys*) following a volcanic eruption.** *Scientific reports*  
Hsu, J. L., Crawford, J. C., Tammore, M. N., Ramakrishnan, U., Lacey, E. A., Hadly, E. A.  
2017; 7 (1): 16227
- **Frequency shifting reduces but does not eliminate acoustic interference between echolocating bats: A theoretical analysis.** *The Journal of the Acoustical Society of America*  
Perkins, M. L., Frank, H. K., Pauly, J. M., Hadly, E. A.  
2017; 142 (4): 2133
- **Rethinking the Origin of Primates by Reconstructing Their Diel Activity Patterns Using Genetics and Morphology** *SCIENTIFIC REPORTS*  
Wu, Y., Wang, H., Wang, H., Hadly, E. A.  
2017; 7: 11837
- **Rapid increase in genetic diversity in an endemic Patagonian tuco-tuco following a recent volcanic eruption** *JOURNAL OF MAMMALOGY*  
Hsu, J. L., Kam, S., Tammore, M. N., Lacey, E. A., Hadly, E. A.  
2017; 98 (3): 779-792
- **Can protected areas really maintain mammalian diversity? Insights from a nestedness analysis of the Colorado Plateau** *BIOLOGICAL CONSERVATION*  
Stegner, M., Karp, D. S., Rominger, A. J., Hadly, E. A.  
2017; 209: 546-53
- **Invasion of Ancestral Mammals into Dim-light Environments Inferred from Adaptive Evolution of the Phototransduction Genes.** *Scientific reports*  
Wu, Y., Wang, H., Hadly, E. A.  
2017; 7: 46542-?
- **Merging paleobiology with conservation biology to guide the future of terrestrial ecosystems** *SCIENCE*  
Barnosky, A. D., Hadly, E. A., Gonzalez, P., Head, J., Polly, P. D., Lawing, A. M., Eronen, J. T., Ackerly, D. D., Alex, K., Biber, E., Blois, J., Brashares, J., Ceballos, et al  
2017; 355 (6325): 594-?
- **Genetics, morphology and ecology reveal a cryptic pika lineage in the Sikkim Himalaya.** *Molecular phylogenetics and evolution*  
Dahal, N., Lissovsky, A. A., Lin, Z., Solari, K., Hadly, E. A., Zhan, X., Ramakrishnan, U.  
2017; 106: 55-60
- **Corrigendum to "Genetics, morphology and ecology reveal a cryptic pika lineage in the Sikkim Himalaya" [Mol. Phylogenet. Evol. 106 (2017) 55-60].** *Molecular phylogenetics and evolution*  
Dahal, N. n., Lissovsky, A. A., Lin, Z. n., Solari, K. n., Hadly, E. A., Zhan, X. n., Ramakrishnan, U. n.

2017; 107: 645

- **Phylogeny, Traits, and Biodiversity of a Neotropical Bat Assemblage: Close Relatives Show Similar Responses to Local Deforestation.** *The American naturalist*  
Frank, H. K., Frishkoff, L. O., Mendenhall, C. D., Daily, G. C., Hadly, E. A.  
2017; 190 (2): 200–212
- **Frequency shifting reduces but does not eliminate acoustic interference between echolocating bats: A theoretical analysis** *The Journal of the Acoustical Society of America*  
Perkins, M. L., Frank, H. K., Pauly, J. M., Hadly, E. A.  
2017; 142: 2133
- **Opportunity for some, extinction for others: the fate of tetrapods in the Anthropocene** *EVOLUTIONARY ECOLOGY RESEARCH*  
Solari, K. A., Frank, H. K., Frishkoff, L. O., Hsu, J. L., Kemp, M. E., Mychajliw, A. M., Hadly, E. A.  
2016; 17 (6): 787-813
- **Getting a head in hard soils: Convergent skull evolution and divergent allometric patterns explain shape variation in a highly diverse genus of pocket gophers (Thomomys)** *BMC EVOLUTIONARY BIOLOGY*  
Marcy, A. E., Hadly, E. A., Sherratt, E., Garland, K., Weisbecker, V.  
2016; 16
- **Retinal transcriptome sequencing sheds light on the adaptation to nocturnal and diurnal lifestyles in raptors** *SCIENTIFIC REPORTS*  
Wu, Y., Hadly, E. A., Teng, W., Hao, Y., Liang, W., Liu, Y., Wang, H.  
2016; 6
- **Climate change and habitat conversion favour the same species** *ECOLOGY LETTERS*  
Frishkoff, L. O., Karp, D. S., Flanders, J. R., Zook, J., Hadly, E. A., Daily, G. C., M'Gonigle, L. K.  
2016; 19 (9): 1081-1090
- **Rocking Earth's biodiversity cradle: challenges, advances, and prospects for conservation paleontology in the tropics** *JOURNAL OF VERTEBRATE PALEONTOLOGY*  
Kemp, M. E., Hadly, E. A.  
2016; 36 (5)
- **Anthropogenic impacts on Costa Rican bat parasitism are sex specific** *ECOLOGY AND EVOLUTION*  
Frank, H. K., Mendenhall, C. D., Judson, S. D., Daily, G. C., Hadly, E. A.  
2016; 6 (14): 4898-4909
- **Anthropogenic impacts on Costa Rican bat parasitism are sex specific.** *Ecology and evolution*  
Frank, H. K., Mendenhall, C. D., Judson, S. D., Daily, G. C., Hadly, E. A.  
2016; 6 (14): 4898-909
- **Post-invasion demography of prehistoric humans in South America.** *Nature*  
Goldberg, A., Mychajliw, A. M., Hadly, E. A.  
2016; 532 (7598): 232-235
- **Avoiding collapse: Grand challenges for science and society to solve by 2050** *ELEMENTA-SCIENCE OF THE ANTHROPOCENE*  
Barnosky, A. D., Ehrlich, P. R., Hadly, E. A.  
2016; 4: 1–9
- **Early Holocene turnover, followed by stability, in a Caribbean lizard assemblage** *QUATERNARY RESEARCH*  
Kemp, M. E., Hadly, E. A.  
2016; 85 (2): 255-261
- **Variable impact of late-Quaternary megafaunal extinction in causing ecological state shifts in North and South America** *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*  
Barnosky, A. D., Lindsey, E. L., Villavicencio, N. A., Bostelmann, E., Hadly, E. A., Wanket, J., Marshall, C. R.  
2016; 113 (4): 856-861
- **Variable impact of late-Quaternary megafaunal extinction in causing ecological state shifts in North and South America.** *Proceedings of the National Academy of Sciences of the United States of America*

- Barnosky, A. D., Lindsey, E. L., Villavicencio, N. A., Bostelmann, E., Hadly, E. A., Wanket, J., Marshall, C. R.  
2016; 113 (4): 856-61
- **Palesvertebrate Communities** *ECOSYSTEMS OF CALIFORNIA*  
Hadly, E. A., Feranec, R. S.  
edited by Mooney, H., Zavaleta, E.  
2016: 155-168
  - **Bartonellae are Prevalent and Diverse in Costa Rican Bats and Bat Flies** *ZOOZOSES AND PUBLIC HEALTH*  
Judson, S. D., FRANK, H. K., Hadly, E. A.  
2015; 62 (8): 609-617
  - **Using the Anthropocene as a teaching, communication and community engagement opportunity** *ANTHROPOCENE REVIEW*  
Mychajliw, A. M., Kemp, M. E., Hadly, E. A.  
2015; 2 (3): 267-278
  - **Extinction biases in Quaternary Caribbean lizards** *GLOBAL ECOLOGY AND BIOGEOGRAPHY*  
Kemp, M. E., Hadly, E. A.  
2015; 24 (11): 1281-1289
  - **Thermal niche predicts tolerance to habitat conversion in tropical amphibians and reptiles** *GLOBAL CHANGE BIOLOGY*  
Frishkoff, L. O., Hadly, E. A., Daily, G. C.  
2015; 21 (11): 3901-3916
  - **Evidence for the peopling of South America: archeological and genetic perspectives**  
Goldberg, A., Mychajliw, A. M., Sztraicher, D., Hadly, E. A.  
WILEY-BLACKWELL.2015: 148
  - **Loss of avian phylogenetic diversity in neotropical agricultural systems** *SCIENCE*  
Frishkoff, L. O., Karp, D. S., M'Gonigle, L. K., Mendenhall, C. D., Zook, J., Kremen, C., Hadly, E. A., Daily, G. C.  
2014; 345 (6202): 1343-1346
  - **Loss of avian phylogenetic diversity in neotropical agricultural systems.** *Science*  
Frishkoff, L. O., Karp, D. S., M'Gonigle, L. K., Mendenhall, C. D., Zook, J., Kremen, C., Hadly, E. A., Daily, G. C.  
2014; 345 (6202): 1343-1346
  - **Translating science for decision makers to help navigate the Anthropocene** *ANTHROPOCENE REVIEW*  
Barnosky, A. D., Hadly, E. A., Dirzo, R., Fortelius, M., Stenseth, N.  
2014; 1 (2): 160-170
  - **Predicting biodiversity change and averting collapse in agricultural landscapes.** *Nature*  
Mendenhall, C. D., Karp, D. S., Meyer, C. F., Hadly, E. A., Daily, G. C.  
2014; 509 (7499): 213-217
  - **Predicting biodiversity change and averting collapse in agricultural landscapes** *NATURE*  
Mendenhall, C. D., Karp, D. S., Meyer, C. F., Hadly, E. A., Daily, G. C.  
2014; 509 (7499): 213-?
  - **A call for tiger management using "reserves" of genetic diversity.** *journal of heredity*  
Bay, R. A., Ramakrishnan, U., Hadly, E. A.  
2014; 105 (3): 295-302
  - **Introducing the Scientific Consensus on Maintaining Humanity's Life Support Systems in the 21 st Century: Information for Policy Makers** *ANTHROPOCENE REVIEW*  
Barnosky, A. D., Brown, J. H., Daily, G. C., Dirzo, R., Ehrlich, A. H., Ehrlich, P. R., Eronen, J. T., Fortelius, M., Hadly, E. A., Leopold, E. B., Mooney, H. A., Myers, J., Naylor, et al  
2014; 1 (1): 78-109
  - **Problem solving in the Anthropocene** *ANTHROPOCENE REVIEW*  
Barnosky, A. D., Hadly, E. A.

2014; 1 (1): 76-77

- **Molecular diagnosis of bird-mediated pest consumption in tropical farmland.** *SpringerPlus*  
Karp, D. S., Judson, S., Daily, G. C., Hadly, E. A.  
2014; 3: 630-?
- **Molecular diagnosis of bird-mediated pest consumption in tropical farmland.** *SpringerPlus*  
Karp, D. S., Judson, S., Daily, G. C., Hadly, E. A.  
2014; 3: 630-?
- **Forest bolsters bird abundance, pest control and coffee yield** *ECOLOGY LETTERS*  
Karp, D. S., Mendenhall, C. D., Sandi, R. F., Chaumont, N., Ehrlich, P. R., Hadly, E. A., Daily, G. C.  
2013; 16 (11): 1339-1347
- **Asymmetrical Competition between *Microtus montanus* and *Microtus longicaudus* in the Greater Yellowstone Ecosystem** *AMERICAN MIDLAND NATURALIST*  
Anich, P. S., Hadly, E. A.  
2013; 170 (2): 274-286
- **Sustaining ecosystem functions in a changing world: a call for an integrated approach** *JOURNAL OF APPLIED ECOLOGY*  
Tomimatsu, H., Sasaki, T., Kurokawa, H., Bridle, J. R., Fontaine, C., Kitano, J., Stouffer, D. B., Vellend, M., Bezemer, T., Fukami, T., Hadly, E. A., van der Heijden, M. G. A., Kawata, et al  
2013; 50 (5): 1124-30
- **Morphological Adaptations for Digging and Climate-Impacted Soil Properties Define Pocket Gopher (*Thomomys* spp.) Distributions.** *PloS one*  
Marcy, A. E., Fendorf, S., Patton, J. L., Hadly, E. A.  
2013; 8 (5)
- **Genetic diversity within vertebrate species is greater at lower latitudes** *EVOLUTIONARY ECOLOGY*  
Adams, R. I., Hadly, E. A.  
2013; 27 (1): 133-143
- **Approaching a state shift in Earth's biosphere** *NATURE*  
Barnosky, A. D., Hadly, E. A., Bascompte, J., Berlow, E. L., Brown, J. H., Fortelius, M., Getz, W. M., Harte, J., Hastings, A., Marquet, P. A., Martinez, N. D., Mooers, A., Roopnarine, et al  
2012; 486 (7401): 52-58
- **Ancient DNA Assessment of Tiger Salamander Population in Yellowstone National Park** *PLOS ONE*  
McMenamin, S. K., Hadly, E. A.  
2012; 7 (3)
- **Genetic variation over 10 000 years in *Ctenomys*: comparative phylochronology provides a temporal perspective on rarity, environmental change and demography** *MOLECULAR ECOLOGY*  
Chan, Y. L., Hadly, E. A.  
2011; 20 (22): 4592-4605
- **Predicting small-mammal responses to climatic warming: autecology, geographic range, and the Holocene fossil record** *GLOBAL CHANGE BIOLOGY*  
Terry, R. C., Li, C. (., Hadly, E. A.  
2011; 17 (10): 3019-3034
- **HIGH LEVELS OF GENE FLOW IN THE CALIFORNIA VOLE (*MICROTUS CALIFORNICUS*) ARE CONSISTENT ACROSS SPATIAL SCALES** *WESTERN NORTH AMERICAN NATURALIST*  
Adams, R. I., Hadly, E. A.  
2010; 70 (3): 296-311
- **Small mammal diversity loss in response to late-Pleistocene climatic change** *NATURE*  
Blois, J. L., McGuire, J. L., Hadly, E. A.  
2010; 465 (7299): 771-U5

- **Dispersal provided resilience to range collapse in a marine mammal: insights from the past to inform conservation biology** *MOLECULAR ECOLOGY*  
Pinsky, M. L., Newsome, S. D., Dickerson, B. R., Fang, Y., Van Tuinen, M., Kennett, D. J., Ream, R. R., Hadly, E. A.  
2010; 19 (12): 2418-2429
- **Isotopes reveal limited effects of middle Pleistocene climate change on the ecology of mid-sized mammals** *QUATERNARY INTERNATIONAL*  
Feranec, R. S., Hadly, E. A., Paytan, A.  
2010; 217 (1-2): 43-52
- **Developmental dynamics of *Ambystoma tigrinum* in a changing landscape.** *BMC ecology*  
McMenamin, S. K., Hadly, E. A.  
2010; 10: 10-?
- **Source-sink dynamics structure a common montane mammal** *MOLECULAR ECOLOGY*  
O'Keefe, K., Ramakrishnan, U., van Tuinen, M., Hadly, E. A.  
2009; 18 (23): 4775-4789
- **Niche conservatism above the species level** *Arthur M Sackler Colloquium of the National-Academy-of-Sciences on Biogeography, Changing Climates and Niche Evolution*  
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