

CURRICULUM VITAE

HOWARD BRADLEY SHAFFER

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Education:

University of Chicago Ph.D. in Evolutionary Biology December 1982
University of California, Berkeley B.A. in Biology June 1976

Current Position:

Distinguished Professor, Department of Ecology and Evolutionary Biology & Institute of Environment and Sustainability, UCLA
Director, UCLA/La Kretz Center for California Conservation Science
Director, Stunt Ranch Reserve, UC Natural Reserve System
Director and Principle Investigator, California Conservation Genomics Project, 2019-present

Major Grants and Awards (1990-present):

Wild Animal Initiative, "How do lentic vs lotic conditions in California estuaries affect the welfare of threespine stickleback?", (with Andrew Sharo), \$30,000, 3/2024 - 3/2026
Section 6 Recovery Challenge Grant, US Fish and Wildlife Service/CA Dept. of Fish and Wildlife, "Genomics estimates of effective population size, inbreeding, and landscape connectivity across populations of the Santa Cruz long-toed salamander to inform recovery actions" \$184,974, 05/31/2024 – 12/31/2026
Grant transfer, Michigan State University, "Construction of a reference genome for the spotted turtle, *Clemmys guttata*", 7/15/2023 – 6/1/2024, \$5000, FAU 447711-BS-85674 (IoES)
CDFW, "Drought Response Implementation Work Plan for the Santa Cruz Long-Toed Salamander", \$42,788, 7/1/2023 – 6/30/2026
CDFW, "Drought Response Implementation Work Plan for the Santa Barbara Distinct Population Segment of the California tiger salamander" (with Robert Cooper), \$250,000. 9/1/2023 – 3/30/2026. Agreement # D2380004.
USFWS, "Lange's and Mormon Metalmark Butterfly Conservation Genomics" (with Zac MacDonald), \$100,000, 8/15/2023 – 12/31/2025 Award Number F23AP03183.
Wild Animal Initiative, "Evaluating wild animal welfare in landscapes of fear at urban-wildland interfaces" (with Dave Daversa), \$253,956. F-2023-00001
Morris Animal Foundation competitive grant, "Novel Epigenetic Approaches to Measure Wildlife Health and Stress" (with Dave Daversa), \$135,000, 7/1/2023 – 6/30/2025, Sponsor Award Number: D23ZO-457
USFWS grant, "Supporting California Red-legged Frog Reintroduction Efforts in Southern California Through the Use of Novel Genomic Techniques" (with Joey Curti), \$19,199, 6/15/2023 - 12/31/2024

Wild Animal Initiative competitive grant, “Novel epigenetic approaches to measure wild animal welfare and stress”, (with Dave Daversa), \$30,000, 3/2023-2/2024 C-2023-00042

USFWS/SANDAG grant, “Conservation Genomics of the Quino Checkerspot”, \$47,526 (funding may change slightly), (with Zac MacDonald), 1/2023- 12/2024 (approximate dates)

Section 6 Recovery Challenge Grant, US Fish and Wildlife Service/CA Dept. of Fish and Wildlife, “Genetic Assessment and Recovery Action Recommendations for the California Tiger Salamander (*Ambystoma californiense*) in the Fort Ord Management Unit”, \$197,506, 01/01/2023 – 01/01/2026 F23AP00463

Genetic and Landscape Improvement Recovery for the Endangered Santa Barbara Distinct Population Segment of the California Tiger Salamander”, US Fish and Wildlife Service, \$250,000, February 1, 2022 – January 31, 2027 Grant # F22AC00796

Environment Canada, “Genetic Analysis of Tiger Salamander Tissue from Manitoba”, \$25,000, December 2021 – March 2022.

Yosemite Conservancy, “Genetic Analysis of Western Pond Turtles in Yosemite National Park”, \$23,375 12/2020-12/2025

US Fish and Wildlife Service, “Historical and current trends in effective population size estimates in the Western spadefoot, *Spea hammondi*” Grant number # F21AC02546-00, 10/2021 – 3/2025, \$262,776

Florida Fish and Wildlife Commission, “Diamondback Terrapin Genetic Assessment”, \$72,233 FWC Agreement 20006, Oct. 2019 – Dec. 2022

US Fish and Wildlife Service, “High-Throughput Genomic Monitoring of Non-Native Genotypes from the Sonoma County Distinct Population Segment of the California Tiger Salamander, *Ambystoma californiense*”, 8/1/2020 – 7/31/2022, \$70,945 Award number F20AC11694

US Fish and Wildlife Service, “Research to Support Conservation and Recovery of Federally Listed and At-risk Reptiles and Amphibians” 7/15/2020 – 12/31/2025, \$75,924

State of California, “California Conservation Genomics Project”, 2019-2025, \$12,000,000 (UCLA led, Shaffer PI, with work distributed to other UC campuses, UC Award ID RSI-19-690224)

State of California, “A Synthetic Analysis of Reptiles and Amphibians to inform the CCGP”, 2019-2022, \$927,000 (Ian Wang, UC Berkeley, co-PI; approximately \$322,000 to the Wang lab at Berkeley, and \$605,000 to the Shaffer lab at UCLA)

State of California, California Conservation Genomics Project subawards for shoulderband snails (\$45,000), ruby spot damselfly (\$43,580), golden eagle (\$49,940); 5 butterfly species (\$147,234); total \$285,754

US Fish and Wildlife Service, “Investigating Recovery Needs and Population Dynamics of the Santa Barbara County Distinct Population Segment of the California Tiger Salamander”, 2019-2020, \$10,000

US Fish and Wildlife Service, “Risk Level Assessment Report for the Western Pond Turtle”, 2018-2020, \$15,000

Tim Gregory (gift) “Turtle and Tortoise Conservation Genomics” (support for postdoc Natalia Gallego-Garcia), \$75,000 (year 1), \$98,000 (year 2), \$89,225 (year 3) June 2019-2023, \$80,000 (year 4); \$342,225 total

Tim Gregory (gift), “Turtle Conservation Genomics”, \$21,399, January 2019

Natural Communities Coalition (formerly NROC), “Upland Habitat Restoration & Seasonal Pool Creation – Western Spadefoot (*Spea hammondi*)”, 2019-2021, \$91,585

California Department of Fish and Wildlife, M-SWG, “Advancing Western Pond Turtle Conservation in Washington, Oregon and California” 2018-2020, \$440,843 (UCLA portion, \$130,000)

Caltrans, “Landscape Genomics Study for California Tiger Salamander”, 2018-2020, \$199,985

UCLA Grand Challenge, “Conservation Genomics of Los Angeles Biodiversity”, 2018-2023, \$200,000

Sacramento Attorney General Office, Gift in support of research on California tiger salamander conservation, \$50,000 (awarded 2017)

US Department of Interior-CVPCP, “Rangewide and Landscape Genomics of the Central DPS of California Tiger Salamander”, \$350,865.00 (2017-2019) (Award number R17AC00063)

US Fish and Wildlife Service, “Species samples for landscape genomics” \$235,000, (2017-19) (Award number F16PX02290)

US Dept. of Interior/Fish and Wildlife Service: Genome-enabled Population Viability Analysis (Award number of the Mojave Desert Tortoise Award number F13AC00425, 2016-18, \$147,485 (supplemental funding)

Natural Communities Coalition (formerly NROC), “Population genomic assessment of habitat connectivity, effective population size, and the success of management activities for the western spadefoot (*Spea hammondi*) in central Orange County”, 2016-2018, \$150,000

UCLA Grand Challenge, “California Conservation Genomics Seed Grant: Modernizing Endangered and Threatened Species Management”, 2015-17, \$70,000

USFWS grant “Effective population size genetic analysis for the California tiger salamander in Santa Barbara County”, 2015-2018, \$71,675; supplement, “Terrestrial Habitat Use and Molecular Analysis of Hybridization in Endangered Santa Barbara County Tiger Salamanders”, \$83,150, 2016-2020; **total award \$154,825.**

Department of the Interior-National Park grant: Landscape genomics of the amphibians of the Santa Monica Mountains, \$126,422 (matching funds for Gary Bucciarelli)

NSF: SG Will phylogenomics resolve the most difficult parts of the tree of life: an empirical evaluation with the turtle genus *Pseudemys* \$150,000

National Park Service, 2016, “Field laboratory addition in the Santa Monica Mountains, \$75,000.

Los Angeles County Collaborative Grant, 2014-2017, “A field laboratory in the Santa Monica Mountains”, \$500,000.

Natural Communities Coalition of Orange County, Wildlife Management and Monitoring Program, 2015, \$25,000

Los Angeles County Natural History Museum/UCLA La Kretz Center Collaborative Postdoctoral Funding Project, 2014-2016, \$50,000 (for Elizabeth Long)

Santa Monica Mountains National Park/UCLA La Kretz Center Collaborative Postdoctoral Funding Project, 2014-2016, \$50,000 (for John Benson)

Bureau of Land Management (with Mike Westphal), Population genomics of California tiger salamanders at Ft. Ord, 2013-2018, \$50,000

National Council for Scientific and Technological Development, Brazil, Special Visiting Researcher, 2014-2016, Ecology and Molecular Genetics of Small, Semi-Aquatic Brazilian Turtles in the Amazon Basin, \$126,027 (total award, collaborative with Richard Vogt)

NSF “Collaborative Research: Tracking genes in real time as they traverse a hybrid invasion landscape” 2013-2018, \$684,251.

US Dept. of Interior/Fish and Wildlife Service: Genome-enabled Population Viability Analysis of the Mojave Desert Tortoise. 2013-15, \$199,671.

California Department of Fish and Wildlife “Landscape genomic evaluation of habitat corridors for the Desert Tortoise” 2013-2014. \$155,000 (approximately)

Sabin Family Foundation: Conservation genomics of Long Island tiger salamanders. 2013-2017, \$49,256

Auburn University/Section 6 (USDI) "Genetic analysis of the Alabama red-bellied turtle (*Pseudemys alabamensis*): estimation of population subdivision, among population gene flow, and population decline." 10/2011-9/2012, \$50,000 (direct cost; half to UCLA).

US Department of Interior "Adult movement behavior and long-term trends in the population dynamics of the central population of the California tiger salamander" 2010-2013, \$268,596.00

DoD "Conservation of California tiger salamanders (*Ambystoma californiense*) at Travis Air Force Base, Solano County, California. 2009-2010, \$95,000.

NSF "Turtles of the World: Global systematics for an imperiled clade" 2008-2014, \$577,294.

US Department of Interior "Conservation genetic of California tiger salamanders (*Ambystoma californiense*)" 2007 – 2010, \$237,840.

California Department of Fish and Game, Interagency Agreement "Collaborative research on management-relevant Threatened and Endangered Species" 2007 – 2013, \$1,686,377.00.

NSF DDIG Dissertation Research "Systematic of rapid radiations: New approaches in the post-genomic age" 7/1/07 - 6/30/09, \$12,000; collaborative with R. C. Thomson.

Caltrans "Terrestrial movements of the California tiger salamander (*Ambystoma californiense*)" 2007 – 2008, \$163,917.

Sacramento County "Amphibian survey and *Spea hammondi* upland habitat use at Mather Field vernal pools" 8/2006 – 12/2008, \$40,000.00; collaborative with A. T. Chang.

USDA Forest Service, Redwood Sciences Laboratory, "*Rana cascadae* Genetics Study" 6/25/07-5/31/08, \$15,000.

Solano County Water Agency, "Identification of critical habitat for California Tiger Salamanders (*Ambystoma californiense*) in Solano County" 4/1/07-6/30/10, \$35,123.

USFS "Long-toed Salamander Genetic Analyses" 2006, \$33,027.

Caltrans "Understanding terrestrial movement of the California tiger salamander, *Ambystoma californiense*" 1/2005-5/2006, \$250,000.

NSF "Collaborative Research: Gauging introgression: Variation across the genome in mode and tempo of natural selection in a tiger salamander hybrid zone" 2005-2009, \$400,353.00 (\$238,705 to UCD), plus 2 REU supplements (\$6,000.00, 2006)

NSF "Genetics, ethics, and systematics: A workshop for turtles" 2005-2007, \$51,283.00

UC Integrated Pest Management, Exotic/Invasive Pests and Diseases Research Program "Ecological influences on invasion success of introduced genes in California tiger salamanders" 2004-2006, \$118,200.00 (direct costs)

NSF grant "Reconstructing Pleistocene range shifts in North American ectothermic vertebrates" 2002-2007, \$308,756.00, plus 2 REU supplements (\$6,000.00, 2006).

CalFed grant "Genetic identification of watershed-dependent species of special concern in the Central Valley" 2002-2005, \$851,660.00 (co-PI with Tom Smith: UCD budget, \$397,130)

EPA "Hybridization between an invasive exotic and a declining native amphibian: Molecular characterization, ecological dynamics and genetic remediation" 2001-2004 \$433,708.00

USFWS "Microsatellite analysis and terrestrial habitat requirements of the California tiger salamander, *Ambystoma californiense*" 2001-2003, \$100,000.00

USFWS "Microgeographic analysis of genetic variation in the endangered Santa Barbara tiger salamander (\$45,000.00) and the Santa Cruz long-toed salamander (\$25,000.00)" 2001-2003. (two awards, \$70,000 total)

NSF grant "The genetic consequences of long generation times in turtles" 1998-2001, \$150,000.00 plus 1 REU supplement (\$5,000.00)

Australian Research Council grant " Genetic differentiation among populations of freshwater turtle in eastern Australia, and its relationship to the history of population contraction and expansion in response to recent glacial events 1998 (Arthur Georges, University of Canberra co-PI), \$29,775.

3 awards from California state and county agencies for population genetics work on hybridization and genetic identification of California tiger salamanders, 1998-1999 (approximately \$65,000.00 total)

NSF grant "The genetic and physiological basis of life cycle convergence among Mexican ambystomatids" 1995-1999, \$317,000.00 plus 3 REU supplement (\$15,000.00)

NSF grant "The Cladogenetic Record for Turtles: Paleontological Dates, DNA Sequences, and a Test of the Molecular Clock" 1993-1996, \$199,000.00 plus 2 REU supplements (\$10,000.00)

NSF grant (Dissertation Improvement Grant for David M. Parichy) "Developmental analysis of morphological evolution: Convergence, divergence, and the origin of novelties in salamander pigment patterns" 1995-1996 \$14,000.00

NSF grant (Dissertation Improvement Grant for Karen Marchetti)- "Significance of inter-specific variation in plumage patterns of birds" 1993-1994, \$11,900.00.

National Park Service Cooperative Agreement, "Cooperative Agreement on Amphibian Population Genetics" 1993-1997, approx. \$140,000.00

NSF grant "Speciation and Phylogenetic Diversification in a Polytypic Species" 1990-1993 \$121,877.00 plus 8 REU supplements (\$40,000.00) and 1 ROA supplement (\$12,800.00)

California State Fish and Game Research Contract "Distribution and Status of the Endemic California Tiger Salamander" 1990-1993 \$50,000 (approximate budget)

Elected and Appointed Positions:

Sustainable Los Angeles Grand Challenge Inaugural Sustainability Research Council

American Academy of Arts and Sciences, 2022-present

External Expert Advisory Board (EEAB) of the Biodiversity Genomics Europe (BGE) Project (<https://biodiversitygenomics.eu>), 2022-present

Board of Governors, American Society of Ichthyologists and Herpetologists (2021-2026)

Treasurer, American Genetic Association, 2018-2021, 2021-2024

NSF Panelist, Evolutionary and Ecological Genetics, Nov. 2017

SERDP (Strategic Environmental Research and Development Program) panelist, May 2017

Natural Communities Coalition (NCC) Science Advisory Panel, 8 November 2013-

President, American Society of Ichthyologists and Herpetologists (2014)

Treasurer, Society of Systematic Biologists, 2013-2015

Board of Governors, American Society of Ichthyologists and Herpetologists (2013-2018)

Advisory Board, the Turtle Conservancy (2013-present)

Member, NCEAS working group on UCNRS Strategic Planning

University-wide Natural Reserve System Advisory Committee, Spring 2012-present

External member, Vernal Pool Oversight Committee, UC Merced (2012- Natural Reserve System)

NSF panelist, Evolutionary Genetics Preliminary preposals, April 2012, 2013

Director, La Kretz Center for California Conservation Science, 2012-present

Executive Vice President, American Genetic Association (2012-2015)

Editorial Board, Journal of Heredity 2012-present

California Landscape Conservation Cooperative (LCC) Steering Committee, 2011-present

President, American Genetics Association (2009 President elect, 2010 President, 2011, past President)

Member, NIMBioS working group on Species Delimitation, 2010-2012

Member, Amphibian Specialist Group (ASG) IUCN/SSC 2007-

SERDP grant panelist (for the Department of Defense), 2010

NSF panelist, Evolutionary Genetics Panel, October 2006
 Member, Steering Committee, IUCN/SSC Tortoise and Freshwater Turtle Specialist Group 2006-
 Conservation Committee, American Society of Ichthyologists and Herpetologists 2005-
 Fitch Committee, American Society of Ichthyologists and Herpetologists, 2005-08 (Chair, 2008)
 Director, Center for Population Biology, UC Davis 2004-2009
 Axolotl Stock Center Advisory Committee, 2004-present
 IUCN/SSC Tortoise and Freshwater Turtle Specialist Group 2003-present
 Council, American Genetics Association, 2003-2006
 Council Member, Society of Systematic Biologists, 2002-2005
 Board of Governors, American Society of Ichthyologists and Herpetologists 1984-89
 Board of Governors, American Society of Ichthyologists and Herpetologists 1998-2003
 Council Member, Society of Systematic Zoologists (class of 1990)
 Associate Editor, Annual Reviews of Ecology and Systematics, 2001-2025
 Associate Editor, Ecological Applications (1997-2000, 2000-2003)
 Associate Editor, Zoological Journal of the Linnean Society, 1999-2005
 Associate Editor, Molecular Systematics and Evolution, Herpetologica (1988-1995)
 Associate Editor, Evolution Jan 1991-Dec 1993
 Editorial Board Member, Annual Reviews of Ecology and Systematics, (1996-2001)
 Editorial Board, Herpetological Conservation (appointed March, 1994-present)
 California/Nevada Workgroup & National Workshop member, Declining Amphibian Task Force
 NBS/BRD Workgroup to Develop a National Amphibian Monitoring System (1994-present)
 North Cascades National Park Research Review Panel, June, 1993
 National Science Foundation Panelist (NSF), Frontiers in Integrative Biological Research (FIBR)
 December, 2003
 NSF panelist, Population Biology Panel: April 1992, October 1993, April 1994, April 2000, April 2002
 NSF Panelist, Dissertation Improvement Grants for Evolutionary and Ecological Physiology, April,
 1995
 NSF Panelist, Dissertation Improvement Grants for Systematic Biology, February, 1997
 Special publications committee, American Assoc. of Ichthyologists and Herpetologists, (1999-present)
 Program Officer, Bay Area Biosystematists (2000-01)
 EPA Panelist, Terrestrial ecosystems (2001)
 NEON workshop participant, NSF (2002)
 IUCN working group on Asian Turtle Crisis, (2001-present)
 E.O. Wilson Award Committee, ASN (2001)

Awards and Honors:

GenARCC (Genomic Adaptation and Resilience to Climate Change) 2025 annual meeting
 keynote address
 American Academy of Arts and Sciences, elected 2022
 External Expert Advisory Board (EEAB) of the Biodiversity Genomics Europe (BGE)
 Project (<https://biodiversitygenomics.eu>), 2022-present
 Leadership team member, Earth Biogenome Project, 2020-present
 Meritorious Teaching Award in Herpetology, 2015 (this is the highest honor for teaching herpetology
 awarded by Herpetology Education Committee across the three primary international societies)
 Advisory Board, the Turtle Conservancy (2013-present)
 President, American Society of Ichthyologists and Herpetologists (2013 President elect, 2014 President,
 2015-16 Past President)

Research Associate (Herpetology), Natural History Museum of LA County, 2013-present
Executive Vice President, American Genetic Association, 2012-2015
Hrды Fellow in Conservation Biology, Harvard University 2009-10
President, American Genetic Association (2009 President elect, 2010 President, 2011 Past President)
Darwin Day Keynote Speaker, UC Merced (March 6, 2009)
External Examiner, Heather Alexander Ph.D. examination, Simon Fraser University, 2007
Distinguished Scholarly Public Service Award, UC Davis (awarded 2006)
Visiting Scholar, University of Canberra 2004
Editorial Board, Chelonian Conservation and Biology (2003-present)
Kyushu University, Japan 2003 (Distinguished Lecturer)
Teaching Excellence Award, Northern California chapter, Phi Beta Kappa, 2002
UC Davis Division of Biological Sciences Outstanding Teaching Award, 2002
Research Faculty Affiliate, Museum of Vertebrate Zoology, Berkeley 2002-present
Fellow, California Academy of Sciences (elected for life in 2001)
Vice-Chancellors Visiting Scholar, University of Canberra 1995-96

Positions Held:

Assistant, Associate and Full Professor, UC Davis, 1987-2012
Assistant Professor, Ecology and Evolutionary Biology, University of California, Irvine 1985-87
Visiting Scholar, University of Chicago 1984-85
Post-doctoral Research Fellow (with Dr. William Atchley) 1983-84
Post-doctoral Research Fellow (with Dr. Russell Lande) 1983
Research Associate, Field Museum of Natural History

Organized and Special Exhibits:

Biodiversity Genomics 2024 (virtual, organized a full session on CCGP, including full and lightning presentations)
California Conservation Genomics Project Stakeholder meeting, ~25 agency and NGO stakeholders to meet and decide on optimal analysis and visualization techniques, March 2023
California Conservation Genomics Project all-hands meeting, 105 UC and agency stakeholders to meet and develop best practices for landscape genomics, September 2022
Best Practices in Teaching Herpetology, Joint Meetings of Ichthyology and Herpetology symposium organizer, 2022 annual meetings, Spokane
California Conservation Genomics Project *ad hoc* advisory meeting, brought in 53 UC and agency stakeholders to develop initial plan for new 10M funding in conservation genomics, September 2019
California Conservation Genomics Project All-PI meeting, July 13-14 2020.
Herpfest 2019, co-organized with B. Espinoza, CSUN, May 2019
NCC Day-long workshop on vernal pools, UCLA, April 2019
Pseudemys species delimitation workshop organized, Gainesville, 2019
Emys (Actinemys) pallida Working Group Meeting, Stunt Ranch Reserve, co-organized with USFWS, April 2018
Conservation Genomics: A Workshop for Agency and NGO Partners, held at Stunt Ranch, organized by the La Kretz Center, 23 February 2018
California Tiger Salamander Conservation Science Symposium, Ft Ord, co-organized with USFWS, September 2017

Symposium: Invaders and Survivors: Reptiles and Amphibians in Urban Ecosystems, International Urban Wildlife Conference (sponsor and symposium organizer), June 2017
 ASIH at 100 Centennial Celebration, New Orleans 2016 (co-organizer)
 California Conservation Genomics Initiative, Sacramento, (organized by Shaffer, in collaboration with CDFW), 1-2 February 2016
 Painted Turtle Genome Consortium, St. Louis, 6 December 2010
 Conservation Genomics, American Genetics Association President's Symposium, Hilo, Hawaii 26-29 July 2010
 The role of fossils in dating molecular phylogenies (convened following the fossil turtle symposium, Royal Tyrrell Museum, Drumheller, Alberta 20-21 October 2009)
 Workshop on Relocation of Endangered California Tiger Salamanders (organized by Shaffer, in collaboration with USFWS & CDFG) 21 March 2008
 Genetics, ethics, and systematics: A workshop for turtles (NSF funded workshop held at the Museum of Comparative Zoology, Harvard University, 2005)
 Declining Amphibians in Western North America (symposium organized for the Western Society of Naturalists, 1998)
 Systematics of Model Organisms (symposium co-organizer for Society of Systematic Biologists, 1992).
 Molecular Biology of Axolotls and other Urodeles (Provocateur on urodele evolutionary biology, International Workshop, 1993).
 Pacific Grove Natural History Museum, special exhibit on Declining California Amphibians (1994)

Books

- Thomson, R. C., A. N. Wright and H. B. Shaffer. 2016. California Amphibian and Reptile Species of Special Concern (University of California Press 390 + xv pages)
- Turtle Taxonomy Working Group [A.G.J. Rhodin, J.B. Iverson, R. Bour, U. Fritz, A. Georges, H.B. Shaffer, and P.P. van Dijk]. 2017. Turtles of the World: Annotated Checklist and Atlas of Taxonomy, Synonymy, Distribution, and Conservation Status (8th Ed.). In: Rhodin, A.G.J., Iverson, J.B., van Dijk, P.P., Saumure, R.A., Buhlmann, K.A., Pritchard, P.C.H., and Mittermeier, R.A. (Eds.). Conservation Biology of Freshwater Turtles and Tortoises: A Compilation Project of the IUCN/SSC Tortoise and Freshwater Turtle Specialist Group. Chelonian Research Monographs 7:1–292. doi: 10.3854/crm.7.checklist.atlas.v8.2017. (Also listed under publications)
- Turtle Taxonomy Working Group [A.G.J. Rhodin, J.B. Iverson, R. Bour, U. Fritz, A. Georges, H.B. Shaffer, and P.P. van Dijk]. 2021. Turtles of the World: Annotated Checklist and Atlas of Taxonomy, Synonymy, Distribution, and Conservation Status (9th Ed.). In: Rhodin, A.G.J., Iverson, J.B., van Dijk, P.P., Stanford, C.B., Goode, E.V., Buhlmann, K.A., and Mittermeier, R.A. (Eds.). Conservation Biology of Freshwater Turtles and Tortoises: A Compilation Project of the IUCN/SSC Tortoise and Freshwater Turtle Specialist Group. Chelonian Research Monographs 8:1–472. doi: 10.3854/crm.8.checklist.atlas.v9.2021. (Also listed under publications)

Publications (Orchid ID: [0000-0002-5795-9242](https://orcid.org/0000-0002-5795-9242)):

246. MacDonald, Z. G., J. R. Dupuis, J. R. N. Glasier, R. Sissons, A. Moehrensclager, H. B. Shaffer, and F. A. H. Sperling. 2025. Genomic and ecological divergence support recognition of a new species of endangered *Satyrrium* butterfly (Lepidoptera, Lycaenidae). ZooKeys 1234:291-304.

245. Daversa, D. R., J. O. Lloyd-Smith, G. M. Bucciarelli, H. B. Shaffer, and D. T. Blumstein. 2025. Non-lethal effects of climate change and infectious disease: An energetics approach to understanding population impacts. *Functional Ecology* 39:916-928.
244. Scott, P. A., E. Najafi-Majd, E. Yildırım Caynak, M. Gidiş^{2,6}, U. Kaya, and H. B. Shaffer. 2024. Phylogenomics reveal species limits and relationships in the narrow-range endemic Lycian salamanders. *Molecular Phylogenetics and Evolution*:202 (2025) 108205 <https://doi.org/10.1016/j.ympev.2024.108205>
243. Cooper, R. D., T K. Luckau, E. Toffelmier, D. G. Cook, S. Martinelli, M. H. Fawcett, and H. B. Shaffer. 2024. A novel genetic strategy to enable rapid detection of rare non-native alleles. *Scientific Reports*:14:26027 <https://doi.org/10.1038/s41598-024-76149-8>.
242. Fitzpatrick, B. M., E. McCartney-Melstad, J. R. Johnson, and H. Bradley Shaffer. 2024. New evidence contradicts the rapid spread of invasive genes into a threatened native species. *Biological Invasions* 26:3353-3367.
241. Chaturvedi, S., M. Escalona, M. P. A. Marimuthu, O. Nguyen, N. Chumchim, C. W. Fairbairn, W. Seligmann, C. Miller, H. B. Shaffer, and N. K. Whiteman. 2024. A draft reference genome assembly of California Pipevine *Aristolochia californica* Torr. *Journal of Heredity* 115:507-515. <https://doi.org/10.1093/jhered/esae023>
240. MacDonald, Z.G., Shaffer, H. B., Sperling, F.A.H. 2024. Impacts of land use and climate change on natural populations: The butterfly perspective. Chapter 8, pages 108 - 131 In: Cork, S., Whiteside, D. (eds.) *Case Studies in Eco Health*. 5m Publishing, Sheffield, U.K. DOI: 10.52517/9781789183368.008.
239. Ward, P. S., E. I. Cash, K. Ferger, M. Escalona, R. Sahasrabudhe, C. Miller, E. Toffelmier, C. Fairbairn, W. Seligmann, H. B. Shaffer, and N. D. Tsutsui. 2024. Reference genome of the bicolored carpenter ant, *Camponotus vicinus*. *Journal of Heredity* 115:120-129. <https://doi.org/10.1093/jhered/esad055>
238. MacDonald, Z. G., T. Gillespie, and H. B. Shaffer. 2024. The highest butterfly in North America. *Frontiers in Ecology and the Environment* 22:e2707, doi:10.1002/fee.2707
237. Curti, J. N., D. Fraser, M. Escalona, C. W. Fairbairn, S. Sacco, R. Sahasrabudhe, O. Nguyen, W. Seligmann, P. H. Sudmant, E. Toffelmier, J. M. Vazquez, R. Wayne, H. B. Shaffer, and M. R. Buchalski. 2023. A genome assembly of the Yuma myotis bat, *Myotis yumanensis*. *Journal of Heredity* 115:139-148 <https://doi.org/10.1093/jhered/esad053>.
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- Shaffer, H. B. 2022. Review of *Turtles of the World: A Guide to Every Family*, by J. E. Lovich and W. Gibbons. Ichthyology and Herpetology, 110 (3): 634 –636 (note, this PDF from the journal includes several book reviews including mine)
- Shaffer, H. B. 2022. Review of *Conservation genetics in mammals. Integrative Research Using Novel Approaches*, edited by Jorge Ortega and Jesus E. Maldonado. Quarterly Review of Biology 97:168-169.
- Shaffer, H.B. 2016. Review of *Biology & Conservation of North American Tortoises* edited by D.C. Rostal, E.D. McCoy and H.R. Mushinsky, 2014, John's Hopkins Press. 190 pp. and *The Texas Tortoise. A Natural History* by F. L. Rose and F. W. Judd, 2014, University of Oklahoma Press, 188 pp. Quarterly Review of Biology 91:526-527.
- Shaffer, H. B. 2014. Review of *The Turtles of Mexico: Land and Freshwater Forms*, by J. M. Legler and R. C. Vogt. Copeia 2014:187-189. DOI is 10.1643/OT-13-124.
- Shaffer, H.B. 2012. Review of *Biology of Turtles: From Structures to Strategies of Life*. J. Wyneken, M. H. Godfrey and V. Bels, eds. Copeia 2012:771-773.
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Shaffer, H.B., and R.K. Grosberg. 1989. Review of Matsuda, R. Animal evolution in changing environments with special reference to abnormal metamorphosis. Copeia 1989(4):1121-1122.

Shaffer, H.B. 1983. Review of Metamorphosis: A problem in developmental biology. (Gilbert and Frieden, eds.) Herpetologica 39(3): 311-313.

Invited Seminars/Symposia (2000-present):

GenARCC (Genomic Adaptation and Resilience to Climate Change) 2025 annual meeting
keynote address, April 2025

University of Idaho, Dept of Fish and Wildlife Sciences departmental seminar March 2025

Invited keynote for WiseAncestors at Fund the Commons, San Francisco, CA March 2025

Wellcome Trust Biodiversity Genomics, organized CCGP session with 8 talks, Sept 2024

Earth Biogenome Project, Tempe, AZ 2024

Turtle Survival Alliance genomics research group, 2024 (virtual)

Turtle Survival Alliance, "Featured Presentation", Tucson, AZ 2024

Caltrans seminar on endangered species, June 2024 (virtual)

University of Miami Biology Dept. Seminar & Searcy lab seminar, March 2024

Interagency Ecological Program, Genetics Project Work Team, December 2023 (virtual)

USFWS talk on genetic improvement of SB CTS, August 2023

Wellcome Trust Biodiversity Genomics 2023 (virtual, co-leading session with my talk plus
several other CCGP presentations in a single session)

USC invited lecture on Urban Biodiversity, September 2023

PacBio 2023 Discoveries Roadshow, Berkeley, April 2023

UCLA La Kretz Public Lecture, Los Angeles, April 2023

Sonoma State University, Departmental Seminar, Rohnert Park, March 2023

Oregon State University Departmental Seminar, Corvallis, OR, February 2023

Museum of Vertebrate Zoology, UC Berkeley, February 2023

Plant and Animal Genome Conference XXX (PAG), PacBio workshop talk, January 2023

USFWS presentation to the Western Pond Turtle Range-wide Conservation Coalition (RCC),
November 2022 (virtual)

ARMI (Amphibian Research and Monitoring Initiative) workshop leader on genomics in
amphibian research, Long Beach, November 2022

NSF Office of Polar Programs workshop "Mapping the Future Applications of 'Omics in
Antarctic Research. October 2022 (virtual)

Keynote, 4th Genomes of Animals & Plants Virtual Conference (GAP22.2), October 2022
(virtual)

USFWS Western Pond Turtle Coordination Team meeting, September 2022 (virtual)

17th International Conference on Genetics (ICG), Beijing, China (virtual)
 Joint Meetings of Ichthyologists and Herpetologists, Biogeography of California and the Pacific Northwest Symposium **Keynote speaker**, Spokane, WA, August 2022
 Joint Meetings of Ichthyologists and Herpetologists, Exemplary Teaching in Herpetology, Spokane, WA, August 2022
 UC Cooperative Extension workshop on post-fire recovery, February 2022 (virtual)
 USFWS/CDFW joint presentation, Santa Barbara CTS recovery options, January 2022 (virtual)
 Plant and Animal Genome Conference XXIX (PAG), January 2022 (lead talk in workshop on Population and Conservation genomics; virtual)
 UNLV Guest lecturer, Cons. Genetics course, November 2021 (virtual)
 California Conservation Genomics Project, November 2021 (virtual)
 University of South Florida, November 2021 (virtual)
 American Genetics Association President's symposium, Snowbird, UT October 2021
 Western Pond Turtle Range-wide Conservation Coalition, Genomics update, April 2021; virtual
 Northern California Science Writers Association (virtual talk) April, 2021; virtual
 US Fish and Wildlife Service seminar, Ventura office, March 2021; virtual
 Santa Ynez Valley Natural History Society, February 2021; virtual
 UCLA, "Our Home, How California's Landscape is Evolving" panel seminar, February 2021
 City of Los Angeles Biodiversity symposium, November 2020; virtual
 Museum of Vertebrate Zoology, UC Berkeley, November 2020; virtual
 Wellcome Trust Biodiversity Genomics (plenary in Conservation session), October 2020; virtual
 California Department of Fish and Wildlife Conservation Lecture, October 2020; virtual
 San Diego State University, March 2020
 Princeton University, Princeton NJ December 2019
 Temple University, Philadelphia, Departmental Seminar, November 2019
 Michigan State University, East Lansing, Departmental Seminar, October 2019
 San Diego Natural History Museum Baja California WPT genomics, August 2019
 LSTS Conservation program, invited symposium talk, San Diego Zoo, April 2019
 Exploring the Wildland-Urban Interface, symposium, Riverside, April 2019
 University of Florida Department Seminar, April 2019
 Sustainable LA Symposium, Natural and Urban Ecosystems of LA County, Los Angeles, February 2019
 University of Nevada Las Vegas, Las Vegas, February 2019
Keynote speaker, California-Nevada Amphibian Populations Task Force, Arcata, January 2019
 California-Nevada Amphibian Populations Task Force (2nd talk), Arcata, January 2019
 The Wildlife Society Invasives Symposium at 25th Annual Conference, Cleveland, October 2018
 LA City Biodiversity Expert Council Workshop, Play del Rey, September 2018
Emys (Actinemys) marmorata Working Group Meeting, McClellan Sacramento, September 2018
 Turtle Survival Alliance, *Graptemys* symposium, Dallas, August 2018
Emys (Actinemys) pallida Working Group Meeting, Stunt Ranch, April 2018
 NHM Los Angeles, research symposium series, April 2018
 UC Merced Vernal Pool Symposium, keynote lecture, March 2018
 UCLA Grand Challenge Sustainable LA Energy Research Symposium, March 2018
 USFWS Webinar, Santa Barbara CTS Advisory Committee, March 2018
 Santa Barbara Tiger Salamander Collaborative Meeting, Santa Maria, November 2017
 California Tiger Salamander Conservation Science Symposium, Ft Ord, CA 2017
 University of California Conservation Genomics Consortium, Blue Oak Reserve, August 2017
 International Urban Wildlife Conference, San Diego, June 2017
 University of Texas, Austin, May 2017

Genetics training grant annual speaker, Yale University, New Haven, May 2017
Southwestern Herpetologists Society, Pasadena, March 2017
USFWS Webinar, CTS Science Advisory Committee, December 2016
Luskin Innovators Speaker Series Discussant: Citizen Scientists, UCLA, November 2016
Mountain Yellow-legged Frogs in the Sierra Nevada Interagency Conservation Strategy Meeting, 2016
UCLA Luskin Endowment Inaugural Symposium "Earth Now: Earth 2050", Los Angeles, 2016
La Kretz Public Discussion, LA River biodiversity, LA Natural History Museum, 2016
MapNet Genomics Workshop, Keynote, Nelson, New Zealand 2016
American Society of Ichthyologists and Herpetologists Centennial Symposium, New Orleans, 2016
Museum of Vertebrate Zoology, UC Berkeley, 2016
Purdue University, West Lafayette, 2016
California Conservation Genomics, Sacramento 2016
American Society of Ichthyologists and Herpetologists, Presidential Address, Reno, 2015
University of Kansas (Distinguished Biodiversity Speaker), 2015
Genome 10K, Santa Cruz CA 2015
Desert Tortoise Council 40th Annual Symposium, Las Vegas, 2015
Iowa State University, Keynote Speaker, EEB Spring Symposium, Ames IA 2015
Muir Centennial Symposium, UCLA (2014)
USFWS Partners for Wildlife Amphibian Summit, Elkhorn Slough, CA 2014
University of Montana (graduate student Super Speaker), 2014
Peking University/UCLA joint conference, 2014
LA County Museum of Natural History First Friday Speaker, 2014
USGS Workshop on Genetics for Monitoring and Management, San Diego 2013
LA County Museum of Natural History, RAAD Keynote Speaker 2013
University of California, Riverside, 2013
Louisiana State University, 2013
IoES Board Meeting, UCLA 2013
Luskin Center, UCLA 2013
LA County Museum of Natural History, 2012
Pepperdine University, 2012
CSU Northridge, 2012
University of Southern California, 2012
Keynote Speaker, Las Virgenes Federation, 2012
Keynote speaker, UC Natural Reserve System, Oakland 2012
7th World Congress of Herpetology, Vancouver 2012 (2 symposium talks)
University of California, San Diego 2012
University of Nevada, Reno 2012
Case Western University, 2012
Genome 10K, Santa Cruz, 2011
California Academy of Sciences, San Francisco, 2011
UCLA Ecology and Evolution Department Seminar, 2011
CDFG CTS hybrid workshop, 2011
The Wildlife Society, Sacramento, 2010
NIMBioS Working Group on Species Delimitation, 2010-2012
Bay Area Biosystematists 2010
UC Davis Evolution and Ecology seminar, 2010
Vernal Pool Workshop, CSU Chico, 2010
American Genetics Association, Hilo 2010

USFWS special workshop on hybrid salamander management, Sacramento 2010
University of Tennessee, Knoxville 2010
University of Massachusetts, Amherst 2010
Concord Academy/Public seminar, Concord 2010
Boston University 2010
Royal Tyrrell Museum, Drumheller, Alberta 2009 (Fossil turtle symposium)
Harvard University 2009 (Hrby Lecture in Conservation Biology)
USFWS, Sacramento Field Office 2009
Darwin Day Keynote Speaker, UC Merced 2009
Declining Amphibian Population Task Force, Bodega Bay, 2009 (3 talks)
Turtle Survival Alliance, Tucson 2008
Yale University, 2008 (2 lectures)
University of California, Berkeley MVZ Centennial lecture 2008
Bay Area Biosystematists, Sonoma State University 2008
Jepson Prairie Docent's Seminar, California Tiger Salamander Biology, Davis 2008
Purdue University, 2007
University of Chicago, 2007
Vernal pool workshop, UC Davis, 2007
Jepson Prairie Docent's Seminar, California Tiger Salamander Biology, Davis 2007
Bay Area Biosystematists, 2006
UC Exotics/Pest symposium, Riverside 2006
Powdermill Symposium on Freshwater Turtles, Portal AZ 2006 (3 talks)
University of Kentucky, Lexington 2006
Society of Systematic Biologists, Stony Brook 2006
Okazaki Conference: Biology of Extinction, Okazaki, Japan 2006
Jepson Prairie Docent's Seminar, California Tiger Salamander Biology, Davis 2006
Simon Fraser University, Vancouver, Canada 2005
University of Nevada, Reno, 2005
The Wildlife Society, Santa Rosa, 2005
CSIRO, Canberra, Australia, 2004
University of Canberra, Australia 2004
First Okazaki Biology Conference: Biology of Extinction, Okazaki, Japan 2004
Wildlife Society, Santa Rosa, CA 2003 (2 lectures)
American Society of Ichthyologists and Herpetologists, Manaus 2003 (2 symposia)
University of Michigan, Ann Arbor 2003
Kyushu University, Japan 2003 (Distinguished Lecturer invitation)
University of Texas, Austin, 2003
Sacramento Zoological Society, Sacramento, 2002
Joint Meetings, ASIH, SSAR, and HL, Kansas City, MO 2002
Society for Conservation Biology, UC Davis chapter, 2002
Chico State University, Chico, CA 2002
Dartmouth College, Hanover, N.H. 2001
California Academy of Sciences "BioForum" speaker, 2001
Florida State University (elected yearly speaker by FSU graduate students), 2001
Wildlife Society, Declining CA amphibian symposium, Sacramento, 2001 (4 presentations)
San Benito Co. Habitat Conservation Plan Workshop, Hollister, 2000
Santa Ynez Natural History Society, Inaugural presentation, Santa Barbara, 2000
American Association of Ichthyologists and Herpetologists, La Paz, 2000

Field Museum of Natural History, Chicago, 2000

Presented Papers (2000-present):

International Bat Research Conference in Cairns, Australia
California-Nevada Amphibian Populations Task Force, Camarillo, 2025 (3 talks)
Animal Behavior Society, Ontario, Canada, 2024
Joint Meetings of Ichthyology and Herpetology, Pittsburg, PA 2024
California-Nevada Amphibian Populations Task Force, Merced, 2024 (3 talks)
American Ornithological Society, Ontario, 2023
North American Society for Bat Research (Curti, presents) 2023
The Wildlife Society, Louisville, 2023
California-Nevada Amphibian Populations Task Force, Sebastopol, 2023 (4 talks)
Turtle Survival Alliance, virtual meeting, 2020
California-Nevada Amphibian Populations Task Force, San Diego, 2020
The Wildlife Society, Sacramento (Eric Olson, presenting), 2020
Herpfest, CSUN, Northridge, 2019 (2 talks)
American Society of Ichthyologists and Herpetologists, Rochester NY 2018 (4 talks, 1 presentation)
American Society of Ichthyologists and Herpetologists, Austin TX 2017 (3 talks, 1 presentation)
Evolution/SSE/SSB, Portland, Oregon (3 talks, 1 presentation)
Herpfest, UC Riverside, Riverside, 2017
California-Nevada Amphibian Populations Task Force, Santa Barbara, 2017 (4 presentations)
American Society of Ichthyologists and Herpetologists New Orleans 2016 (5 presentations)
Turtle Survival Alliance, Tucson, 2015
California-Nevada Amphibian Populations Task Force, Malibu, 2015 (1 presentation, 4 coauthored)
Turtle Survival Alliance, St. Louis 2013
American Society of Ichthyologists and Herpetologists Albuquerque 2013 (5 presentations)
California-Nevada Amphibian Populations Task Force, Arcata, 2013 (3 presentations)
California-Nevada Amphibian Populations Task Force, Placerville, 2012
American Society of Ichthyologists and Herpetologists Minneapolis 2011 (2 presentations)
Ecological Society of America, Austin 2011
Tropical Conservation Biology and Environmental Science, UH Hilo, 2011
Turtle Survival Alliance, Orlando 2010
Ecological Society of America, Pittsburg 2010 (coauthor on 2 talks)
Ecological Society of America, Albuquerque NM 2009
American Society of Ichthyologists and Herpetologists Portland OR 2009 (coauthor on 3 presentations)
Society for the Study of Evolution, Idaho 2009 (coauthor on 2 presentations)
American Society of Ichthyologists and Herpetologists Montreal 2008 (2 presentations)
Society for the Study of Evolution, Minneapolis 2008 (coauthor on 3 presentations)
Southeastern Ecology, Evolution, and Population Genetics, Tennessee 2007
American Society of Ichthyologists and Herpetologists St. Louis, MO 2007 (2 presentations)
American Society of Ichthyologists and Herpetologists New Orleans, LA 2006 (3 presentations)
American Society of Ichthyologists and Herpetologists Tampa, FL 2005 (4 presentations)
Ecological Society of America, Montreal 2004
Society for the Study of Evolution, Chico, CA 2003

Conservation and Outreach Activities

Full day meeting of CCGP leadership at UCLA, 31 October 2024
 Serve on the Sustainable Los Angeles Grand Challenge inaugural Sustainability Research Council, 2024-present
 Served as an expert client to submit an *amicus curiae* brief on the potential effects of a proposed Kern County oil and gas ordinance on the Temblor legless lizard to the California Court of Appeal, Fifth Appellate District, in the matter of *V Lions Farming, LLC, et al. v. County of Kern, et al.*
 Governmental and NGO stakeholder meeting, CCGP, Sacramento March 2023
 All-hands meeting, CCGP, UCLA, September 2022
 A Conversation on Los Angeles Wildlife Corridors, Invited Panelist (21 September 2021)
 Western Pond Turtle Rangewide Conservation Coalition, Founding Member
 USFWS Species Survival Analysis technical team for Western Pond turtle, March 2021-present
 USFWS seminar, March 2021, on SB CTS
 UCLA, "Our Home, How California's Landscape is Evolving" panel seminar, February 2021
 NASA Biodiversity Conservation Roundtable participant, 15 January & 11 February 2021
 Scientific peer review, USFWS Species Status Assessment (Western spadefoot), 27 April 2020-present
 USFWS expert meeting, Western spadefoot, presenter/participant, 8-9 July 2020
 San Diego Natural History Museum Baja California research symposium August 2019
 Santa Cruz Long-toed salamander working group, Elkhorn Slough, August 2019
 NCC Day-long workshop on vernal pools, UCLA, April 2019
 LSTS Conservation program, invited symposium talk, San Diego Zoo, April 2019
 Exploring the Wildland-Urban Interface, symposium, Riverside, April 2019
 Lecture for University of Florida Herpetology Course, declining amphibians, April 2019
 Sustainable LA Symposium, Natural and Urban Ecosystems of LA County, Los Angeles, February 2019
 Santa Barbara Tiger Salamander Collaborative presentation, Santa Maria, May, 2018
 UCLA Grand Challenge Sustainable LA Energy Research Symposium, March 2018
 Atlantic Coast Leopard Frog recovery team (2016- present)
 Santa Barbara Tiger Salamander Collaborative presentation, Santa Maria, November 2017
 California Tiger Salamander Conservation Science Symposium (2017, cosponsor)
 Biodiversity Expert Council, City of Los Angeles (2017-present)
 University of California Conservation Genomics Consortium, 2017
 Herpetological Education Committee, ASIH (2016-2019)
 Spiritus Award Committee (Chair), ASIH, 2017
 Urban Wildlife Working Group Symposium Coordination Committee, San Diego, 2017
 La Kretz Public Discussion, LA River biodiversity, LA Natural History Museum, 2016
 MapNet workshop, Keynote on Conservation Genomics, Nelson New Zealand, 2016
 Workshop on grant writing, ASIH centennial meeting, New Orleans, 2016
 California tiger salamander Science Advisory Committee workshop, Sacramento, 2016
 Presentation to Carlsbad office of USFWS on California Conservation Genomics Initiative, 2016
 Presentation to Sacramento office of USFWS on California Conservation Genomics Initiative, 2016
 Presentation to Ventura office of USFWS on California Conservation Genomics Initiative, 2016
 Natural Communities Coalition, Orange County, leadership team and full day workshop, 2016
 California Conservation Genomics Workshop, Sacramento, February 2016
 California tiger salamander Science Advisory Committee appointment by USFWS, January 2016
 Presentation leader to California Fish and Game Commission, 7-8 October 2015, Los Angeles
 Sustainable LA Biodiversity Committee and Leadership Team, UCLA Grand Challenge, 2014-present
 Animals in 3-D, panel discussion on animals in science and culture, UCLA, September 2014
 USFWS Partners for Wildlife Amphibian Summit speaker, Elkhorn Slough, CA 2014

First Friday Keynote, 7 March 2014, LA County Museum of Natural History
 Genetics for Monitoring and Management Workshop, (Genomics presenter) November 2013
 Science Panel Member (invited), Nature Reserve of Orange County, November 2013
 Advisory Board, The Turtle Conservancy (2013-present)
 Hosted California Fish and Game Commission, 22-23 May 2013, UCLA campus
 Presentation leader to California Fish and Game Commission, 22-23 May 2013, Los Angeles
 Cabrillo National Monument Reptile and Amphibian Monitoring Advisory Committee, 2013
 California Tiger Salamander Recovery Planning working group, 2013-present
 UC Merced Vernal Pool Reserve Advisory Committee, 2012-present
 Keynote Speaker, Las Virgenes Federation, April 2012
 La Kretz Center for California Conservation Science, Director, 2012-present
 California Landscape Conservation Cooperative (LCC) Steering Committee, 2011-present
 Advisory Board, Turtle Conservation and Research Programme, India (April 2011-present)
 Jepson Prairie Docent's Seminar, California Tiger Salamander Biology, Davis 2011
 Lead scientist/speaker, CDFG workshop on hybrid CA tiger salamander management, 2011
 Speaker & Discussion leader, USFWS special meeting on management of hybrid CTS, 2010
 Grant evaluator for the Department of Defense SERDP program, 2010
 Evaluator for the National Research Council report, *Sea Turtle Status and Trends: Integrating Demography and Abundance*, March 2010
 Invited speaker, annual public seminar on conservation biology, Concord Academy, 2010
 Invited scientific commentator/evaluator on the Proposed Rule to list the California Tiger Salamander as endangered in California, CDFG, 2009.
 Pro bono consultant, California tiger salamander conservation, Travis Air Force Base, 2009
 Presentation to USFWS updating on California Tiger Salamander conservation, 2009
 Amphibian and Reptile Species of Special Concern document for the state of California, 2008-09
 Peer reviewer, Recovery Plan for the Mojave Desert Tortoise, USFWS November 2008
 Turtle Survival Alliance, Participant in the Top 40 endangered species program
 Member, Rush Ranch Science and Technical Advisory Team (August 2008-present)
 Workshop on Relocation of Endangered California Tiger Salamanders (organized by Shaffer, in collaboration with USFWS & CDFG) 21 March 2008
 Workshop on Conservation and Management of Western Pond Turtles, Redding 6 Feb. 2008
 Jepson Prairie Docent's Seminar, California Tiger Salamander Biology, Davis 2007
 Potrero Hills Scientific Review Team, May-September 2006/7 (CTS evaluation)
 Jepson Prairie Docent's Seminar, California Tiger Salamander Biology, Davis 2006
 Invited participant, "Evolutionary hotspots" workshop (California State Parks) November, 2005
 Scientific advisor, Caltrans working group on mitigation standards for California tiger salamanders, October 2005
 Invited speaker, Wildlife Society workshop on the Western Pond Turtle, Sonoma State University, 16-17 April 2005
 Invited speaker, California State Parks symposium on Genetic Monitoring. UC Davis, 16 February, 2005
 ASIH Conservation Committee, 2005-present
 CSIRO Researching with Scientists Scheme (2004): (for four Australian high-school students)
 Reviewer for 2004 IUCN amphibians of the world project (Mexican ambystomatid salamanders)
 "Conservation of the California Tiger Salamander"- Published interview **Environmental Review** 2004, 11(10): 1-8.
 Invited speaker for the Yolo Basin Foundation's Flyway Nights Lecture Series, 2003

Invited scientific commentor/evaluator on the Proposed Rule to list the Central California population segment of *Ambystoma californiense*, USFWS, 2003.
Invited speaker, Wildlife Society workshop on the California Tiger Salamander, Sonoma State University, 4-5 October, 2003
Member, Science Advisory team, Arroyo toad monitoring and survey study, Camp Pendleton, CA 2002
Member, Science Advisory Group for the Merced County NCCP/HCP 2002
Speaker on Amphibian Declines, Sacramento Zoological Society, Sacramento, 2002
Participant, Rapid Biological Inventory. China: Gaoligong Shan, Yunnan Prov. Field Museum of Natural History, 2002
Invited Participant, Wildlife Society/USFWS/SDFG workshop on the California Red-legged frog, Pt. Reyes, 8-9 April, 2002
Participant, California Academy of Sciences "Bioforum" program, 2001
Member, USFWS Santa Barbara tiger salamander recovery team, 2001-present
Member, Santa Cruz long-toed salamander recovery team, 2001-present
Participant, Rapid Biological Inventory. Perú: Biabo Cordillera Azul. Field Museum of Natural History, 2001
IUCN workshop on Asian Turtle Crisis (facilitator for systematic biology). Dallas January, 2001.
San Benito Co. Habitat Conservation Plan (HCP) Workshop, expert on the California Tiger Salamander. September, 2000
Santa Barbara Co. Emergency listing team for the USFWS on the Santa Barbara Tiger Salamander. Spring, 2000.
UC Davis Arboretum Speaker. Spring, 2000.
Member, Jepson Prairie Advisory Committee, ~1995-present

Ph.D. Students Mentored (bold are current):

Mike Benard
Gideon Bradburd
Gary Bucciarelli
Ann Chang
Robert Cooper
Joseph Curti
Carlos Davidson
Tag Engstrom
Robert Fisher
Ben Fitzpatrick
Natalia Gallego Garcia
Lara Hansen
Karen Leyse
Amy Lind
Karen Marchetti
Evan McCartney-Melstad
Kevin Neal
Dave Parichy
Nathan Rank
Maureen Ryan
Wes Savage
Chris Searcy

Phil Spinks
Bob Thomson
Erin Toffelmier
Pete Trenham
Ian Wang

Postdoctorals Mentored (**bold are current**):

Jamie Ashander
Joscha Beninde
Gary Bucciarelli
Jim Clark
Adam Clause
Robert Cooper
David Daversa
Ben Fitzpatrick
Natalia Gallego Garcia
Muge Gidis
Rich Glor
Jesse Grismer
Mike Hickerson
Fred Janzen
Jarrett Johnson
Elizabeth Long
Zachary MacDonald
Evan McCartney-Melstad
Mark McKnight
Emily Moriarty Lemmon
Tom Near
Greg Pauly
Seth Riley
Peter Scott
Chris Searcy
Phil Spinks
Dave Starkey
Erin Toffelmier (also Associate Director, CCGP)
Pete Trenham
Randal Voss
Ben Wielstra
Amber Wright
Yonghua Wu