

Gary M. Bucciarelli

CURRICULUM VITAE

INSTITUTE OF THE ENVIRONMENT
UNIVERSITY OF CALIFORNIA, DAVIS
ONE SHIELDS AVENUE
DAVIS, CA 95616

✉ GARYB@UCDAVIS.EDU
🌐 WWW.GARYBUCCIARELLI.ORG
☎ (323) 875-5986

EDUCATION

University of California, Los Angeles

Ph.D., Biology: Department of Ecology and Evolutionary Biology, 2015

Dissertation Title: *Phenotypic variation of toxin levels in a chemically defended amphibian: The ecological and evolutionary significance of tetrodotoxin.*

Committee: H. Bradley Shaffer (chair), Lee. B. Kats, David B. Green, Gregory Grether, Thomas Smith

Antioch College

B.A., Interdisciplinary Cultural Studies, 2002

Committee: Christine Hill (chair), Anne Bohlen (department chair), Bob Devine (Antioch President)

PROFESSIONAL APPOINTMENTS

- 2023 - Present** Associate Adjunct Professor
University of California, Davis; *Department of Wildlife, Fish, and Conservation Biology*
- 2022 - Present** Director
UC Natural Reserve System; *UC Davis Lassen Volcanic Park Biological Field Station*
- 2022 - Present** Director of Strategic Engagement
UC Davis Natural Reserves
- 2016 - Present** Adjunct Professor
Pepperdine University; *Natural Science Division*
- 2018 - 2022** Associate Adjunct Professor
University of California, Los Angeles; *Department of Ecology and Evolutionary Biology*
- 2015 - 2022** Director of Research
UC Natural Reserve System; *UCLA Stunt Ranch Biological Field Station*

- 2015 - 2018 Postdoctoral Researcher
University of California, Los Angeles
*In collaboration with the **Institute of the Environment & Sustainability**, La Kretz Center for Conservation Science and **The National Park Service**, Santa Monica Mountains National Recreation Area*
- 2013 - 2014 Research Scientist
The Malibu Institute
 Project: *The impacts of non-native species on stream invertebrates and amphibians*
- 2013 - 2015 Public Outreach Coordinator
University of California, Los Angeles
Institute of the Environment & Sustainability, La Kretz Center for Conservation Science
- 2012 Research Scientist
Graniterock Consulting
 Project: *The molecular ecology of native and non-native alleles in the Federally-endangered California tiger salamander*
- 2011 Research Assistant
Rincon del Socorro; Ibera wetlands, Argentina
 Project: *The ecology of vertebrates in a restored wetland*
- 2009 - 2012 Research Assistant and Mentor
La Selva Biological Preserve, Costa Rica
 Project: *Behavioral avoidance of ultraviolet radiation in calling male poison dart frogs*
- 2005 - 2010 Senior Manager
Apple Inc., Cupertino, CA
 Managed 150 employees; responsible for \$40 million of revenue; staffed the Los Angeles market

FUNDING & AWARDS

- 2022 **National Science Foundation, DEB: Evolutionary Processes: \$986,000** (Submitted)
 Project: *Re-examining the origin and maintenance of a toxin phenotype in newts*
- 2022 **National Science Foundation, LTREB: \$452,000** (In Revision)
 Project: *Using sentinel sites and endemic species to predict population outcomes in human-altered environments*
- 2022 **University of California Climate Innovation and Entrepreneurship Fund: \$230,000**
 Project: *AI synthesis of field and remote sensing data to assess ecosystem resilience and functional diversity in fire-affected landscapes*

- 2022 Center for Information Technology Research in the Interest of Society (CITRIS): \$60,000**
Project: *Calibrating remote sensing data to develop a toolkit for the assessment of ecosystem resilience and functional diversity in fire affected landscapes*
- 2022 Wild Genomes, Morris Animal Foundation: \$92,800**
Project: *Applying genomics to the conservation and management of the critically-endangered El Rincon-stream frog in Patagonia, Argentina*
- 2022 National Fish and Wildlife Foundation: \$151,089**
Project: *Improving methods and assessing the impacts of crayfish and crayfish trapping on unarmored threespine stickleback and California red-legged frogs in San Francisquito Creek*
- 2022 California Proposition 50 Grant Program: \$385,000**
Project: *Looking back to see ahead: using long-term monitoring data to predict species persistence*
- 2021 UC Natural Reserve System Field Science Fellowship (mentor)**
- 2019 Las Virgenes Municipal Water District: \$125,000**
Project: *Direct potable reuse as drinking water: public perceptions and ecological effects*
- 2015 United States Department of the Interior: \$270,000**
Project: *A genomics-based conservation management plan for amphibians of the greater Los Angeles area*
- 2015 Las Virgenes Municipal Water District: \$95,000**
Project: *The characterization, evaluation, and control of invasive species in Los Angeles watersheds*
- 2015 UCLA Dissertation Year Fellowship**
- 2014 The National Park Services: \$7,500**
Project: *The impact of invasive species removal on amphibians and aquatic macroinvertebrates*
- 2014 Malibu Institute: \$15,000**
Project: *Reintroduction of local amphibian species into restored habitat*
- 2013 UCLA La Kretz Center: \$7,000**
Project: *Do predator cues induce increased toxin levels in a chemically defended amphibian?*
- 2013 University of California Natural Reserve System Mildred Mathias Award: \$4,500**
Project: *Phenotypic variation through space and time of toxin levels in a chemically defended amphibian*
- 2013 UCLA Life Sciences**
Distinction in Teaching Award
- 2011 National Science Foundation**
Graduate Research Fellowship Program - *Honorable Mention*

2011 UCLA Departmental Fellowship

1998 Antioch College Horace Mann Fellowship

PEER-REVIEWED PUBLICATIONS (* denotes mentored undergraduate or ‡graduate researcher)

- 24) Daversa, D.R., **Bucciarelli, G.M.**, Shaffer, H.B., Lloyd-Smith, J., & Blumstein, D.T. (Under Review). Energetics, stress, and the demographic consequences of climate-disease interactions. *Trends in Ecology and Evolution*.
- 23) Cervantez, O., Anderson, D., **Bucciarelli, G.M.**, Lambert, M., & Friesen, M. (Under Review). Feral frogs, native newts, and chemical cues: Identifying threats from and management opportunities for invasive African clawed frogs in Washington state. *PeerJ*
- 22) Frey, A.R., **Bucciarelli, G.M.**, Kats, L.B., & Green, D.B. (Under Review). An amphibian toxin phenotype is sexually dimorphic and shows seasonal concordant change between sexes. *Science Advances*
- 21) Rouse, S.V., **Bucciarelli, G.M.**, Kats, L.B., & Roberts, D. (Under Review). The development and initial psychometric evaluation of a scale to measure attitudes about purified recycled water. *Journal of Political and Social Psychology*
- 20) **Bucciarelli, G.M.**, * Smith, S.J., * Choe, J., * Shin, P., Fisher, R.N., & Kats, L.B. (In Revision). Native amphibian toxin reduces invasive crayfish feeding with apparent benefits to stream biodiversity. *BMC Ecology and Evolution*
- 19) ‡ van Riemsdijk, I., Arntzen, J.W., **Bucciarelli, G.M.**, McCartney-Melstad, E., Rafajilovic, M., Scott, P.A., Toffelmier, E., Shaffer, H.B., & Wielstra, B. (Accepted). Spatial variation in introgression along a toad hybrid zone in France. *Heredity*.
- 18) * Clark, M.A., * Ota, W.M., * Smith, S.J., * Muramoto, B.K., * Chan, G., * Ngo, S., * Kenyon, M., * Sturtevant, M., * Diamond, M., **Bucciarelli, G.M.**, & Kats, L.B. 2022. A natural experiment identifies an impending ecological trap for a neotropical amphibian in response to extreme weather events. *Ecology and Evolution*.
- 17) ***Bucciarelli, G.M.**, *Alsalek, F., Green, D.B., Kats, L.B., & Shaffer, H.B. 2022. Toxic relationships and arms race coevolution revisited. *Annual Review of Animal Biosciences*.
- 16) ***Bucciarelli, G.M.**, *Lechner, M., * Fontes, A., Kats, L.B., & Shaffer, H.B. 2021. From poison to promise: The evolution of tetrodotoxin and its potential as a therapeutic. *Toxins*. 13: 517
- 15) Grear, D., Mosher, B., Grant, E., Adams, M., Backlin, A., Barichivich, W., Brand, A., **Bucciarelli, G.M.**, Calhoun, D., Chestnut, T., Davenport, J., Dietrich, A., Fisher, R., Glorioso, B., Halstead, B., Hayes, M., Honeycutt, R.K., Hossack, B., Kleeman, P., Lemos-Espinal, J., Lorch, J., McCreary, B., Muths,

- E., Pearl, C., Richgels, K., Robinson, C., Rowe, J., Sigafus, B., Stasiak, I., Sweet, S., Walls, S., Watkins-Colwell, G., White, C., Williams, L., & Winzeler, M. (2020). *Batrachochytrium salamandrivorans* (Bsal) not detected in an intensive survey of North American amphibians. *Scientific Reports*. 10: 1-7.
- 14) **Bucciarelli, G.M.**, * Clark, M.A., Shaffer, H.B., Fisher, R.N., Delaney, K.S., Riley, S.P.D., Honeycutt, R.L. & Kats, L.B. 2020. Amphibian responses in the aftermath of extreme climate events. *Scientific Reports*. 10: 1-7.
- 13) Valliere, J.M., **Bucciarelli, G.M.**, Bytnerowicz, A., Fenn, M.E., Irvine, I.C., Johnson, R.F., & Allen, E.B. 2020. Declines in native forb richness of an imperiled plant community across an anthropogenic nitrogen deposition gradient. *Ecosphere*. 11:e03032.
- 12) Valliere, J.M., * Escobedo, E., **Bucciarelli, G.M.**, Sharifi, M., & Rundel, P. 2019. Invasive annuals respond more negatively to drought than native species. *New Phytologist*. 223: 1647-1656.
- 11) **Bucciarelli, G.M.**, * Suh, D.S., * Davis, A., Roberts, D., Sharpton, D., Shaffer, H.B., Fisher, R.N., & Kats, L.B. 2019. Assessing effects of non-native crayfish on mosquito survival. *Conservation Biology*. 33: 122-131.
 - **Second highest Altmetric score of all papers published in *Conservation Biology* in 2018-2019**
 - **Among the top 10% of most downloaded papers in 12 months following publication**
 - **Featured by National Geographic, NPR, and iHeartRadio**
- 10) * Ota, W.M., *Olsen, B., **Bucciarelli, G.M.**, & Kats, L.B. 2018. The effect of newt toxins on an invasive snail. *Hydrobiologia*. 817: 341-348.
- 9) ‡ Velasco, M.A., Berkunsky, I., Simony, M.V., Quiroga, S., **Bucciarelli, G.M.**, Kats, L.B., & Kacolicis, F.P. 2017. The rainbow trout is affecting the occupancy of amphibians in Patagonia. *Hydrobiologia*. 817: 447-455.
- 8) **Bucciarelli, G.M.**, Green, D.B., Shaffer, H.B., & Kats, L.B. 2017. An amphibian chemical defense phenotype is inducible across life history stages. *Scientific Reports*. 7: 8185.
- 7) ‡ Calhoun, D.M., **Bucciarelli, G.M.**, Kats, L.B., Zimmer, R.K., & Johnson, P.T.J. 2017. Noxious newts and their natural enemies: Experimental effects of tetrodotoxin exposure on trematode parasites and aquatic macroinvertebrates. *Toxicon*. 137: 120-127.
- 6) **Bucciarelli, G.M.**, Green, D.B., Shaffer, H.B., & Kats, L.B. 2016. Individual fluctuations in toxin levels affect breeding site fidelity in a chemically defended amphibian. *Proceedings of the Royal Society: B*. 283: 20160648.
- 5) **Bucciarelli, G.M.** & Kats, L.B. 2015. Effects of newt predator cues on the distribution and foraging of stream macroinvertebrates. *Hydrobiologia*. 749: 69-81.

- 4) **Bucciarelli, G.M.**, Blaustein, A.R., Garcia, T. & Kats, L.B. 2014. Invasion complexities: The diverse impacts of invasive species on amphibians. *Copeia*. 4: 611-632.
- 3) **Bucciarelli, G.M.**, * Li, A., Kats, L.B., & Green, D.B. 2014. Quantifying tetrodotoxin levels in the California Newt using a non-destructive sampling method. *Toxicon*. 80: 87-93.
- 2) Kats, L.B., **Bucciarelli, G.M.**, Vandergon, T.L., Honeycutt, R.L. * Mattiasen, E., * Sanders, A., Riley, S.P., & Fisher, R.N. 2013. Effects of natural flooding and manual trapping on the facilitation of invasive crayfish-native amphibian coexistence in a semi-arid perennial stream. *Journal of Arid Environments*. 98: 109-112.
- 1) Kats, L.B., **Bucciarelli, G.M.** * Schlais, D.E., Blaustein, A.R., & Hahn, B. 2013. Ultraviolet radiation influences perch selection by a neotropical poison dart frog. *PLoS ONE*. 7(12).

REPORTS

- 2019** “A conservation management plan for amphibians of greater Los Angeles informed by landscape genomics” prepared by G.M. Bucciarelli, K.M. Pease, K.S. Delany, S.P.D. Riley, and H.B. Shaffer for the **National Park Service**.
- 2017** “Characterization, evaluation, and control of invasive species in Los Angeles watersheds” prepared by G.M. Bucciarelli, D. Sharpton, and L.B. Kats for the **Los Angeles Regional Water Quality Board**.

TEXTBOOKS & BOOKS

- 2020** **Reviewer**
Evolution (2nd ed.) by C.T. Bergstrom and L.A. Dugatkin
- 2019** **Reviewer**
West Southwest: Vertebrate Life in Southern California by Gregory Pregill
- 2014** **Reviewer**
Essentials of Ecology (4th ed.) by M. Begon, C.R. Townsend, and R.W. Howarth
- 2013** **Content Consultant**
The Science of Life: Food Webs by Carol S. Surges

TEACHING EXPERIENCE

2022	UCLA: <i>Research Colloquia, Winter and Spring Quarters (Instructor)</i>
2019 - 2022	UCLA: <i>Ecology (Instructor)</i>
2018 - 2022	UCLA: <i>Evolution (Instructor)</i>
2016 - Present	Pepperdine University: <i>Biostatistics; Experimental Design; Ecology (Instructor)</i>
2014	UCLA: <i>Field Biology Quarter - The Ecology of California Amphibians and Reptiles (TA)</i>
2013 - 2015	UCLA: <i>Molecular, Cellular, & Developmental Biology; Teaching Practicum (Instructor)</i>
2012	UCLA: <i>Introduction to Evolution (TA)</i>
2011	UCLA: <i>Ecological Responses to Environmental Challenges (TA)</i>
2002	Antioch College: <i>Media and Social Change (TA)</i>
2001	Antioch College: <i>Media Literacy and Production (TA)</i>

DISSERTATION COMMITTEES

2021 - Present	Maria Jose Navarrete (UC Berkeley, dissertation advisor Rebecca Tarvin)
2023 - Present	Yee-Ann Wong (UT Arlington, dissertation advisor JC Buckner)

INVITED LECTURES

2023	Lingnan University, Tuen Mun, Science Unit, Hong Kong SAR, China
2023	University of Hong Kong, School of Biological Sciences, Hong Kong SAR, China
2022	California State University, Dominguez Hills, Department of Biology, Dominguez Hills, CA
2021	California State University, Channel Islands, Department of Biology, Camarillo, CA
2020	National Park Service, Thousand Oaks, CA
2020	San Diego Natural History Museum, San Diego, CA
2019	Pepperdine University, Seaver College, Malibu, CA
2017	California State University, Northridge, Department of Biology, Los Angeles, CA
2016	Imperial College, Department of Ecology and Evolutionary Biology London, United Kingdom
2016	La Plata University, Department of Ecology La Plata, Argentina
2015	Pepperdine University, Department of Biology Malibu, CA
2014	The Chautauqua Series Temescal Canyon Park, Pacific Palisades, CA
2014	Southwestern Herpetological Society Pasadena, CA
2014	Mountains Recreation and Conservation Authority Pacific Palisades, CA
2014	Cold Creek Docents Calabasas, CA
2013	California Native Plant Society Santa Monica, CA
2013	Las Virgenes Municipal Water District Calabasas, CA
2012	Topanga Canyon Docents Malibu, CA
2010	Santa Monica College, Department of Biology Santa Monica, CA

PRESENTATIONS (* denotes mentored undergraduate)

S.M. Westcott, L.F. Sullivan, F.O. Shafau, G.M. Bucciarelli, A. Frey, D.B. Green, E.A. Heath-Heckman, and H.L. Eisthen. "Newt-associated bacteria synthesize a protective neurotoxin." 2022. **8th Conference on Beneficial Microbes.**

* E. Vetter, * E. DeArment, * A. Fontes, G.M. Bucciarelli, and L.B. Kats. "Conspecific aggression of invasive crayfish in response to amphibian chemical cues." 2021. **Seaver Research and Scholarly Achievement Symposium.**

* A. Fontes, * E. Vetter, G.M. Bucciarelli, and L.B. Kats. "The effects of symbiote ostracods on invasive crayfish behavior." 2021. **Seaver Research and Scholarly Achievement Symposium**

J.M. Valliere, G.M. Bucciarelli, * A. Bytnerowicz, M.E. Fenn, I.C. Irvine, R.F. Johnson, and E.B. Allen, "Atmospheric nitrogen deposition drives declines in native plant richness across the Santa Monica Mountains, California." 2020. **National Atmospheric Deposition Program (NADP) Scientific Symposium.**

G.M. Bucciarelli, * D. Hu, * M. Carter, D.B. Green, H.B. Shaffer, and L.B. Kats, "Fluctuating toxins and the evolution of chemical defenses in a poisonous amphibian." 2020. **World Congress of Herpetology.**

* D. Addison, * B. Muramoto, * D. Rizzo, L.B. Kats, and G.M. Bucciarelli. "Effects of TTX on the movement, metamorphosis, and mortality of mosquito larvae." 2019. **Southern California Conference for Undergraduate Research.** Mentor.

* M. Sturtevant, * C. Russel, R. Garcia, G.M. Bucciarelli, and L.B. Kats. "Tetrodotoxin reduction due to antibiotics in the California newt." 2019. **Southern California Conference for Undergraduate Research.** Mentor.

G.M. Bucciarelli, * D. Hu, D.B. Green, H.B. Shaffer, and L.B. Kats, "Assessing range wide variation of toxin defenses in a poisonous amphibian." 2019. **Oxford Venoms and Toxins World Symposium.**

* S.J. Smith, G.M. Bucciarelli, and L.B. Kats. "Impacts of a native toxic salamander on the behavior of a stream invader." 2019. **Ecological Society of America.** Mentor.

* A. Fontes, G.M. Bucciarelli, and L.B. Kats "The effects of symbiote ostracods on invasive crayfish behavior." 2019. **Behavior.** Mentor.

* S.J. Smith, G.M. Bucciarelli, and L.B. Kats. "Feeding behavior of invasive crayfish, *Procambarus clarkii*, in response to native chemical cues." 2018. **Southern California Conference for Undergraduate Research.** Mentor.

* A. Fontes, G.M. Bucciarelli, and L.B. Kats. "Removal of symbiotic ostracods and the impact of feeding behavior and conspecific aggression in host crayfish, *Procambarus clarkii*." 2018. **Southern California Conference for Undergraduate Research.** Mentor.

* W. Ota, * B. Olsen, G.M. Bucciarelli, and L.B. Kats. "The effect of an amphibian toxin on an invasive snail." 2017. **Ecological Society of America.** Mentor.

L.B. Kats, and G.M. Bucciarelli. "The influence of UV radiation on tropical dart frog behavior." 2017. **Southern California Academy of Sciences 110th Annual Meeting.**

* A. Flores, G.M. Bucciarelli, D.B. Green, and L.B. Kats. "Tolerance to aquatic nitrate toxicity may contribute to the invasive potential of globally introduced crayfish." 2016. **Southern California**

Conference for Undergraduate Research. Mentor.

* A. Flores, G.M. Bucciarelli, D.B. Green, and L.B. Kats. “The effect of nitrate on the release of glucose into the hemolymph of crayfish.” 2016. **National Meeting of the American Chemical Society.** Mentor.

G.M. Bucciarelli, H.B. Shaffer, D.B. Green, and L.B. Kats. “Phenotypic variation in space and time of toxin levels in a chemically defended amphibian.” 2015. **Ecological Society of America.**

G.M. Bucciarelli, H.B. Shaffer, D.B. Green, and L.B. Kats. “Fluctuations in toxin levels of a chemically defended amphibian.” 2015. **Oxford Venoms and Toxins World Symposium.**

G.M. Bucciarelli, H.B. Shaffer, D.B. Green, and L.B. Kats. “Temporal variation in toxin levels of a chemically defended amphibian.” 2015. **American Society of Ichthyologists and Herpetologists.**

G.M. Bucciarelli, H.B. Shaffer, D.B. Green, and L.B. Kats. “Tracking newts and defensive toxin levels through time in the Santa Monica Mountains.” 2015. Meeting of the **California-Nevada Amphibian Populations Task Force.**

* A. Li, G.M. Bucciarelli, L.B. Kats and D.B. Green. “Reduced sample size and improved extraction and recovery of tetrodotoxin from the California newt, *Taricha torosa*.” 2014. **National Meeting of the American Chemical Society.** Mentor.

M. Gidis, G.M. Bucciarelli, U. Kaya, and H.B. Shaffer. “*Lyciasalamandra* genus: A status review using next-generation sequencing methods.” 2014. **American Society of Ichthyologists and Herpetologists.**

G.M. Bucciarelli. “Phenotypic variation in space and time of an amphibian chemical defense.” 2014. **University of California Natural Reserve System Annual Symposium.**

* A. Sokolova, A., * N. Huron, * A. Reimer, G. Bucciarelli and L.B. Kats. “Effects of Tetrodotoxin on New Zealand Mud Snails (*Potamopyrgus antipodarum*).” 2013. **Southern California Conference for Undergraduate Research.** Mentor.

* J.M. Buie, * N. Novella, * J. Liao, * C.M. Sutter, Kats, L.B., and G.M. Bucciarelli. “Stream current as a limiting factor for aquatic invasive species in southern California streams.” 2013. **International Conference on Challenges in Aquatic Sciences.**

* Sutter, C.M., * N.A. Novella, L.B. Kats and G. Bucciarelli. “Effects of ultraviolet light on male aggression in the strawberry poison dart frog, *Oophaga pumilio*” 2012. **Southern California Conference for Undergraduate Research.** Mentor.

* J. Liao, * A. Nakahar, * A. Sokolova, G. Bucciarelli and L.B. Kats. “Activated carbon adsorption of tetrodotoxin in post fire streams?” 2012. **Southern California Conference for Undergraduate Research.** Mentor.

* N. Huron, L.B. Kats and G.M. Bucciarelli. “A comparison of auditory and visual cues in the territorial behavior of the strawberry poison dart, *Oophaga pumilio*.” 2012. **Southern California Conference for Undergraduate Research.** Mentor.

* A. Chowanec, G.M. Bucciarelli, L.B.Kats and D. B. Green. “An improved method for the analysis of tetrodotoxin by high performance liquid chromatography coupled with fluorescence detection.” 2011. **Western Regional Meeting of the American Chemical Society.**

G.M. Bucciarelli, * D.E. Schlais and L.B. Kats. “Ultraviolet radiation influences perch selection by a neotropical poison dart frog.” 2011. **Joint Meeting of Ichthyologists and Herpetologists.**

* A. Sanders, * E. Uemura, * E.G. Mattiasen, * N. Huron, * C. Sutter, L.B. Kats and G.M. Bucciarelli. “The influence of flood events on the long-term coexistence of native amphibians.” 2010. **Southern California Conference for Undergraduate Research**. Mentor.

* E.G. Mattiasen, * A. Chowaniec, L.B. Kats and G.M. Bucciarelli. “Vulnerability of native caddisfly species to invasive crayfish in the Santa Monica Mountains.” 2010. **Southern California Conference for Undergraduate Research**. Mentor.

* J. Chung, * C. Hwang, * M. Bender, * F. Sapigao, G.M. Bucciarelli, T. Vandergon, R.L. Honeycutt, and L.B. Kats. “Long term coexistence of native amphibians and invasive crayfish mediated by flood events.” 2010. **Joint Meeting of Ichthyologists and Herpetologists**.

JOURNAL EDITORIAL BOARDS

BMC Ecology and Evolution (2021 - Present)
Frontiers in Amphibian and Reptile Science (2022 - Present)
Toxins (2022 - Present)

JOURNAL REFEREE

Biological Invasions (3)	Journal of Animal Ecology (1)
BMC Evolutionary Biology (1)	Journal of Chemical Ecology (3)
Conservation Biology (3)	Land (1)
Copeia (1)	Marine Drugs (2)
Diversity (2)	Molecular Ecology (3)
Ecohealth (1)	Oecologia (2)
Endangered Species Research (1)	Phylomedusa (1)
Ecology and Evolution (2)	PLoS ONE (1)
Freshwater Biology (2)	Toxicon (5)
Hydrobiologia (8)	Toxins (4)
Journal of Arid Environments (2)	Western North American Naturalist (1)

SERVICE & OUTREACH

2023 - Present	Lassen Park Foundation Board Member
2021	Wildlife Health Center External Protocol Reviewer, Amphibian Decontamination
2021 - Present	Occidental College IACUC Committee Member, External Scientific Advisor
2020	EPA Internal Technical Advisor
2020 - 2021	IUCN Red List Amphibian Assessment Consultant
2020 - Present	Faculty Sponsor UCLA Ecology Graduate Student Research Assessment Projects
2018 - Present	Amigos de los Rios Technical Advisory Committee

2016 - Present **UC Natural Reserve System (NRS)** Board of Councilors

2016 - Present **UC Office of the President** Universitywide Advisory Board, UC NRS

2016 **UC NRS** Committee Chair to assess incorporation of Pt. Reyes National Park into NRS

2015 - Present **California Cooperative Ecosystem Studies Unit (CA CESU)** UCLA Representative

2013 - 2015 **UCLA Committee on Diversity and Equal Opportunity (CODEO)** Graduate Member

2013 - Present **Collaborative Science Agenda on Climate Change in Southern California** Member

2012 - 2019 **Cold Creek Docents & Topanga Docents** Volunteer instructor

2010 - 2016 **National Park Services** Volunteer at ScienceFest (5,000+ visitors)

2010 - 2015 **Los Angeles Natural History Museum** Volunteer at Reptile and amphibian appreciation day (RAAD), NatureFest; and Reptiles and Amphibians of Southern California (RASCals) community science project

SELECT PRESS

UC Research and Innovation

The California Academy of Science's **bioGraphic**

The Center for Biological Diversity's **The Revelator**

National Geographic

NPR "Take Two" on-air interview discussing invasive species with A Martínez, August 9, 2018

KFI AM640 iHeartRadio Network interview discussing invasive crayfish with Monica Rix, August, 13 2018

Malibu Surfside News

Spectrum News on-air interview discussing invasive mosquitoes with Kelvin Washington, October 13, 2021

UC Natural Reserve System, Field Science Fellowship

The Guardian