

CURRICULUM VITAE

Gary Bucciarelli

OFFICE:

TERASAKI LIFE SCIENCE BUILDING
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EDUCATION

Antioch College, B.A., Interdisciplinary Cultural Studies, 2002

University of California, Los Angeles, Ph.D., Biology, 2015

PROFESSIONAL EXPERIENCE

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| 2015 - Present | Director of Research Stunt Ranch Santa Monica Mountains Reserve, Malibu, CA |
| 2015 - Present | Postdoctoral Researcher The National Park Service UCLA, Department of Ecology and Evolutionary Biology |
| 2013 - Present | Research Scientist The Malibu Institute, Malibu, CA |
| 2013 - 2015 | Public Outreach Coordinator UCLA La Kretz Center for California Conservation Science Institute of the Environment and Sustainability |
| 2012 | Research Scientist Graniterock, Watsonville, CA |
| 2011 | Research Assistant Rincon del Socorro, Ibera wetlands, Argentina |
| 2009 - 2012 | Research Assistant La Selva Biological Preserve, Costa Rica |
| 2005 - 2010 | Executive Manager Apple Inc., Los Angeles, CA |

TEACHING EXPERIENCE

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| 2016 | Pepperdine University: Biostatistics and Experimental Design |
| 2013 - 2015 | UCLA: Teaching Assistant Consultant |
| 2012 | UCLA: Introduction to Evolution |
| 2011 | UCLA: Ecological Responses to Environmental Challenges |
| 2002 | Antioch College: Media and Social Change |
| 2001 | Antioch College: Media Literacy and Production |

INVITED LECTURES

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| 2016 | California State University Northridge, CA |
| 2016 | La Plata University La Plata, Argentina |
| 2016 | Imperial College London, UK |
| 2015 | Pepperdine University 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 Advisory Committee Calabasas, CA |
| 2012 | Topanga Canyon Docents Malibu, CA |
| 2010 | Santa Monica College, Department of Biology Santa Monica, CA |
| 2009 | Los Angeles Community College, Department of Biology Los Angeles, CA |

GRANTS, FELLOWSHIPS, AWARDS

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| 2015 | United States Department of the Interior: \$135,000 Project: <i>A genomics based conservation management plan for amphibians of the greater Los Angeles area</i> |
| 2015 | Las Virgenes Municipal Water District: \$50,000 Project: <i>Characterization, evaluation, and control of invasive species in Los Angeles watersheds</i> |
| 2015 | UCLA Dissertation Year Fellowship |
| 2014 | The National Park Services, Southern California Research Learning Center: \$7,500 Project: <i>The impact of invasive species removal on amphibians and aquatic macroinvertebrates</i> |
| 2014 | Malibu Institute: \$15,000 Project: Reintroduction of local amphibian species into restored habitat |
| 2013 | La Kretz Graduate Student Research Grant Project: <i>Do predator cues induce increased toxin levels in a chemically defended amphibian?</i> |
| 2013 | Mildred E. Mathias Graduate Research Grant Project: <i>Phenotypic variation through space and time of toxin levels in a chemically defended amphibian</i> |
| 2012 | UCLA Award of Distinction in Teaching |

- 2011 National Science Foundation - Graduate Research Fellowship Program: Honorable Mention
2011 UCLA Departmental Fellowship
1998 Horace Mann Scholarship: \$20,000 per year

PUBLICATIONS (*undergraduate)

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.

Bucciarelli, G.M. & Kats, L.B. 2015. Effects of newt predator cues on the distribution and foraging of stream macroinvertebrates. *Hydrobiologia*. 749: 69-81.

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.

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. *Toxicol.* 80: 87-93.

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.

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).

PRESENTATIONS

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 College**.

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**.

Li*, A., 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.

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

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.

Liao*, J., 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.

Huron*, N., L.B. Kats and G. 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.

Chowaniec*, A., G. 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.**

Sanders*, A., E. Uemura*, E. 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.

Mattiasen*, E.G., 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.

Chung*, J., C. Hwang*, M. Bender*, F. Sapigao*, G. 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.**

SERVICE

- ◆ University of California: University Wide Representative for the UC Natural Reserve System
- ◆ Member on the Board of Directors for the University of California, Natural Reserve System Capital Campaign
- ◆ University of California, Natural Reserve System: Committee Chair to evaluate
- ◆ UCLA Committee on Diversity and Equal Opportunity (CODEO): Elected graduate seat.
- ◆ National Park Services: Biannual stream surveys throughout the Santa Monica Mountains.
- ◆ Los Angeles Natural History Museum: Reptile and amphibian appreciation day (RAAD)
- ◆ Reptiles and Amphibians of southern California (RASCals): Citizen science projects.
- ◆ Reviewer: Hydrobiologia, Conservation Biology, Ecohealth, Phylomedusa, Copeia, and PLOS ONE.
- ◆ Docent instructor: Topanga Docents, Cold Creek Docents, and Research Conservation District.
- ◆ National Park Service Sciencefest (5,000+ visitors)
- ◆ Collaborative Science Agenda on Climate Change in Southern California Coastal Parks Program and La Kretz Center for California Conservation Science Santa Monica Mountains Cooperative Research Program