

CURRICULUM VITAE

Lee B. Kats

OFFICE:

Thornton Administrative Center
Provost's Office
Pepperdine University
Malibu, California 90263

EDUCATION:

Calvin College, Grand Rapids, Michigan, B.A.

University of Kentucky, Lexington, Kentucky, Ph.D.

PROFESSIONAL EXPERIENCE:

2023-Present	Interim Dean, Seaver College
2019-2023:	Vice Provost Pepperdine University
2011-2018:	Vice Provost for Research and Strategic Initiatives Pepperdine University
2004-2011:	Associate Provost of Research Pepperdine University
2001-2011:	Assistant/Associate Dean of Research, Seaver College, Pepperdine University
2000-Present:	Frank R. Seaver Chair in Natural Science Pepperdine University
1998-Present:	Professor Pepperdine University
1998-2011:	Member of the Graduate Faculty Zoology Department Oregon State University

1996 (Fall):	Visiting Scientist Oregon State University (Collaborated with Dr. Andrew Blaustein)
1996 (Winter and Spring):	Visiting Scientist UCLA-School of Medicine (Collaborated with Dr. Jared Diamond)
1993-1998:	Associate Professor Pepperdine University
1990-1993:	Assistant Professor Pepperdine University Malibu, California
1989-1990 (Summers):	Assistant Professor Au Sable Institute of Environmental Studies Mancelona, Michigan
1988-1990:	Assistant Professor Greenville College, Illinois

ADMINISTRATIVE EXPERIENCE:

Vice Provost (2011-2023)

--Worked closely with President Gash and Dr. Byron Johnson (Baylor) to create the Pepperdine Center for Faith and the Common Good. Continue to serve as academic director of the Center.

--Worked closely with the Office of Institutional Effectiveness. This office reports to my area and collects all data related to institutional assessment and institutional research. Five full-time researchers including two with doctorates in higher education and statistics staff the office.

--Served *ex officio* on the Advancement of Student Learning Council, a group of faculty and staff who oversee assessment across all five schools at Pepperdine and receives and reviews all program reviews.

--Created and developed with the previous University President a new University-wide innovation program. This Waves of Innovation initiative attracted over 300 proposals from the University community and resulted in over \$800,000 in awards to streamline

University operations, begin new academic programs, and integrate students and faculty with local communities.

--Initiated and developed a new community-based research program that brings faculty and students together from the University's five schools to work jointly on interdisciplinary community-based problems.

--Co-developed a new NSF funded, research-based series of first year courses designed to immerse first year students in a research experience at the very beginning of their academic career.

--Worked on the current University strategic plan and in conjunction with the Provost formed five University working groups to identify metrics for monitoring progress related to strategic plan goals.

--Worked with the institution's department of Information Technology. This unit of the University has 80 full-time staff members and has a 17 million dollar budget.

--From 2011-2019 served as the University President's liaison to the athletic department. The University Athletic Director and I worked jointly on matters related to athletics and academics, compliance, and student athlete information.

--Serve on the University President's Steering Team. This committee consists of the President, the Provost, the Vice Provost and the Deans of each of the University's five schools as well as the various University Vice Presidents and the Chancellor.

--Led an effort to dramatically improve services of University Research and Sponsored Programs (now Office of Research, Grants and Foundation Relations). RSP now operates as a "one-stop shop" to support and facilitate all faculty and staff grant proposal writing. We have seen a doubling of proposal submissions in the last 12 years.

--Continued with responsibilities listed under Associate Dean and Associate Provost as indicated.*

Associate Dean (2001-2011)

--Organized and serve as chair (ex officio) of the Seaver Research Council, a faculty committee of leading campus scholars that makes recommendations about research policy and internal funding.*

--Served on the Seaver Dean's Cabinet, a group of Deans and academic chairs that both make and recommend policy about admissions, tuition, student life, curriculum, general education, and co-curriculum.

--Administered internal funding programs including: Dean's Research Grants for faculty, Seaver Research Council Grants for both students and faculty, Summer Undergraduate Research Program for both students and faculty.*

- Initiated and appropriated internal funding to support new program for cross-disciplinary interdisciplinary faculty/student research clusters.*
- Initiated and appropriated internal funding to support new program for academic year faculty/student research projects (AYURI).*
- Interviewed all applicants for tenure-track faculty positions in Seaver College.*
- Organized with Research and Sponsored Programs the Seaver Internal Review Board and appoint faculty chair of Seaver IRB.*
- Wrote external grant proposals to support undergraduate/faculty research projects. Proposals have been written for: NOAA, NSF, Keck Foundation, Ford Foundation, National Park Service, U.S. Geological Survey.
- Met with all Seaver faculty on matters related to research; includes advising faculty on internal funding opportunities, external funding opportunities, and all matters related to scholarship and publication.*
- Developed and supported faculty workshops on publishing and grant proposal writing.
- Made multiple presentations about Pepperdine research activities to internal groups (Board of Regents, Seaver Board of Visitors) and external community groups (Optimists, Kiwanis, Rotary, park docents, local government agencies).
- Made recommendations for the David W. Baird Distinguished Lecture Series. My contacts that participated in the series included: Jared Diamond, author scientist; Jon Vickers, opera star; Jack Hanna, naturalist and television host.
- Organized and hosted with Research and Sponsored Programs the annual Seaver Undergraduate Research and Creative Activity Symposium, a major yearly showcase of undergraduate/faculty research.*
- Created (with Steve Davis and Rodney Honeycutt) and taught two international summer courses for undergraduates; these included both science majors and non-majors in Costa Rica and in Argentina.

Associate Provost (2004-2011)

- Served on Provost's Cabinet, a group of Provost-level administrators that oversee and recommend policy related to libraries, accreditation, research funding, sponsored activities, University budget, and regulatory compliance issues.*
- Worked with Graduate Internal Review Board, the faculty IRB responsible for oversight of human subjects related research in the professional and graduate schools.

Work with the Dean of the Graduate School of Education and Psychology to name chair.*

--Organized Institutional Animal Care and Use Committee (IACUC) and appointed faculty chair.

--Oversaw the work of the Office of Research and Sponsored Programs. Included working with Director, Sponsored Programs Officers, and Compliance Attorney. Director reported to me. The office oversees a research budget of approximately 3-4 million dollars.*

--Initiated and administered the Provost's Research Grants; internal grants to support faculty scholarship at the professional and graduate schools.*

--Appointed to represent the University in multiple faculty grievances; handled all aspects of one significant case that lasted for two years.

--Approved and supported the hosting of on-campus research conferences.*

--Assisted Advancement by giving talks to alumni groups and donor groups about faculty and student scholarship.

--Frequently met with prospective students and parents to highlight Pepperdine strengths and explain campus opportunities for new students.

--Organized and led a team of faculty and administrators that hosted in November 2010 the largest undergraduate research conference in California (SCCUR). Over 1,200 faculty and students attended and presented their research. This conference represented faculty and students across the liberal arts and the sciences.

POST-PhD HONORS AND AWARDS:

Frank R. Seaver Chair in Natural Science (2000-Present)
Pepperdine University Faculty Merit Acceleration (1993)

PRIVATE FOUNDATIONS:

Keck Foundation

“Developing the Undergraduate as Scholar”
(Co-P.I.s Steve Davis and Constance Fulmer)

2011-2015

\$250,000

FEDERAL GRANTS:

National Science Foundation

“REU: Undergraduate Research in Biology” (Co-P.I.s Stephen Davis, Lee Kats, Tom Vandergon and Karen Martin)	2000-2002	\$150,000
“COLLABORATIVE RESEARCH: Effects of UV-B Radiation on Amphibian Behavior” (Co-P.I.s Andrew Blaustein and Lee Kats)	1999-2001	\$30,000
“REU: Undergraduate Research in Biology” (Co-P.I.s Stephen Davis, Lee Kats, Tom Vandergon and Karen Martin)	1997-1999	\$120,000
“ROA Supplement: Potential Effect of Ultraviolet Radiation on Amphibians” (Co-P.I.s Andrew Blaustein and Lee Kats)	1996-1997	\$18,000
"SGER The Effects of Chaparral Fire on Chemically Mediated Intraspecific Predation" (P.I. Lee Kats)	1994-1995	\$5,170
"REU: Undergraduate Research in Biology" (Co-P.I.s Gary Tallman, Stephen Davis, Lee Kats and Karen Martin)	1993-1995	\$150,000
"REU: Undergraduate Research in Biology" (Co-P.I.s Gary Tallman, Stephen Davis, Lee Kats and Frank Ewers)	1991-1992	\$92,000
Western National Parks Association		
“Crayfish Dispersal Mechanisms in the Santa Monica Mountains” (Co-P.I.s Lee Kats and Jacob Kerby)	2001-2002	\$6,000

“The Effect of Introduced Crayfish on Native Amphibians in the Santa Monica Mountains”
(P.I. Lee Kats)

1995-1996 \$4,000

National Park Service and U.S. Geological Survey

“The Impact of Invasive Crayfish Removal on Amphibians and Aquatic Macroinvertebrates in Trancas Creek, Santa Monica Mountains.”
(P.I. Lee Kats)

2015-2016 \$4,500

“Surveys of Flora and Fauna of National Parks”
(Co P.I.s Lee Kats, Tom Vandergon, Rodney Honeycutt, Stephen Davis, Karen Martin)

2009 \$12,000

“Survey of Amphibians in the Santa Monica Mountains”
(Co P.I.s Lee Kats and Tom Vandergon)

2000-2004 \$12,500

Sea Grant Program

“Aquatic Nuisance Species: A multi-stage approach to understanding the invasion ecology of exotic crayfish in Northern and Southern California”
(in collaboration with UC Davis)

2004-2005 \$105,116
2003-2004 \$127,535

STATE GRANTS

Santa Monica Bay Restoration Project

“Invasive Species: Intern Support” 2008 \$6,000

“Invasive Species: Intern Support” 2007 \$6,000

“Invasive Species: Education” 2005-2006 \$12,600

“Trancas Creek Restoration”
(Co-P.I.s Lee Kats and the Mountains Restoration Trust)

2003-2006 \$117,000

PUBLICATIONS (* undergraduate student):

Rouse, S.V., J.P. Trammell, G.M. Bucciarelli, D. Roberts and L.B. Kats. 2024. The effect of a brief educational programme for improving attitudes about purified recycled water. **Water and Environment Journal** 38:410-418.

Frey*, A.R., G.M. Bucciarelli, D.D. Hu*, L.B. Kats and D.B. Green. 2023. An amphibian toxin phenotype is sexually dimorphic and shows seasonal concordant change between sexes. **Frontiers in Amphibian and Reptile Science** 1, 1279848.

Bucciarelli, G.M., S.J. Smith*, J.J. Choe*, P.D. Shin*, R.N. Fisher and L.B. Kats. 2023. Native amphibian toxin reduces invasive crayfish feeding with potential benefits to stream biodiversity. *BMC Ecology and Evolution* 23:51 doi:10.1186/s12862-023-02162-6.

Bucciarelli, G.M., F. Alsalek*, L.B. Kats, D.B. Green and H.B. Shaffer. 2022. Toxic relationships and arms-race coevolution revisited. **Annual Review of Animal Biosciences** 10: 63-80.

Bucciarelli, G.M., M. Lechner*, A. Fontes*, L.B. Kats and H.B. Shaffer. 2021. From poison to promise: the evolution of tetrodotoxin and its potential as a therapeutic. **Toxins** 13:517 doi:10.3390/toxins13080517.

Kovalenko, K.E., F.M. Pelicice, L.B. Kats, J. Kotta and S.M. Thomaz. 2021. Aquatic invasive species: introduction to the special issue and dynamics of public interest. **Hydrobiologia** 848:1939-1953.

Bucciarelli, G.M., M.A. Clark*, K.S. Delaney, S.P.D. Riley, H.B. Shaffer, R.N. Fisher, R.L. Honeycutt and L.B. Kats. 2020. Amphibian responses in the aftermath of extreme climate events. **Scientific Reports** 10:3409 doi:10.1038/s41598-020-60122-2.

Bucciarelli, G.M., D Suh*, A. Davis*, D. Roberts, D. Sharpton, H.B. Shaffer, R.N. Fisher and L.B. Kats. 2019. Assessing effects of non-native crayfish on mosquito survival. **Conservation Biology** doi:10.1111/cobi.13198.

D.A Miller, E.H. Campbell Grant, E. Muths, S.M. Amburgey, M.J. Adams, M.B. Joseph, J. Hardin Waddle, P.T.J. Johnson, M.E. Ryan, B.R. Schmidt, D.L. Calhoun, C.L. Davis, R.N. Fisher, D.M. Green, B.R. Hossack, T.A.G. Rittenhouse, S.C. Walls, L.L. Bailey, S.S. Cruickshank, G.M. Fellers, T.A. Gorman, C.A. Haas, W. Hughson, D.S. Pilliod, S.J. Price, A.M. Ray, W.Sadinksi, D. Saenz, W.J. Barishivich, A.Brand, C.S. Brehme, R. Dagit, K.S. Delaney, B.M. Glorioso, L.B. Kats, P.M. Kleeman, C.A. Pearl, C.J. Rochester, S.P.D. Riley, M. Roth and B.H. Sigafus. 2018. Quantifying climate sensitivity and climate-driven change in North American amphibian communities. **Nature Communications** doi:10.1038/s41467-018-06157-6.

Havel, J.E., S.M. Thomaz, L.B. Kats, K.E. Kovalenko and L.N. Santos. 2018. Invasive species II: Preface. **Hydrobiologia** doi:10.1007/s10750-018-3635-7.

- Ota*, W.M., B. Olsen*, G.M. Bucciarelli, and L.B. Kats. 2018. The effect of newt toxin on an invasive snail. **Hydrobiologia** doi:10.1007/s10750-018-3568-1.
- Velasco, M.A., I. Berkunsky, M.V. Simoy, S. Quiroga, G.M. Bucciarelli, L.B. Kats and F. P. Kacoliris. 2018. The rainbow trout is affecting the occupancy of native amphibians in Patagonia. **Hydrobiologia** doi:10.1007/s10750-017-3450-6.
- Bucciarelli, G.M., H.B. Shaffer, D.B. Green and L.B. Kats. 2017. An amphibian chemical defense is inducible across life history stages. **Scientific Reports** 7:8185 doi:10.1038/s41598-017-08154-z.
- Calhoun, C.M., G.M. Bucciarelli, L.B. Kats, R.K. Zimmer and P.T. Johnson. 2017. Noxious newts and their natural enemies: Experimental effects of tetrodotoxin exposure on trematode parasites and aquatic macroinvertebrates. **Toxicon** 127:120-127.
- Milligan*, W.R., M.T. Jones*, L.B. Kats, T.A. Lucas and C.L. Davis. 2017. Predicting the effects of manual crayfish removal on California newt persistence in Santa Monica Mountain streams. **Ecological Modeling** 352:139-151.
- Jones*, M.J., W.R. Milligan*, L.B. Kats, T.L. Vandergon, R.L. Honeycutt, R.N. Fisher, C.L. Davis and T.A. Lucas. 2017. A discrete stage-structured model of California newt population dynamics during a period of drought. **Journal of Theoretical Biology** 414:245-253.
- Bucciarelli, G.M., D.B. Green, H.B. Shaffer and L.B. Kats. 2016. Individual fluctuations in toxin levels affect breeding site fidelity in a chemically defended amphibian. **Proceedings Royal Society B**. 283 20160468; doi:10.1098/rspb.2016.0468.
- Bucciarelli, G.M. and L.B. Kats. 2015. Effects of newt chemical cues on the distribution and foraging behavior of stream macroinvertebrates. **Hydrobiologia** 749:69-81.
- S.M. Thomaz, K.E. Kovalenko, J.E. Havel and L.B. Kats. 2015. Aquatic invasive species: general trends in the literature and introduction to the special issue. **Hydrobiologia** 746:1-12.
- Havel, J.E., K.E. Kovalenko, S.M. Thomaz, S. Amalfitano and L.B. Kats. 2015. Aquatic invasive species: challenges for the future. **Hydrobiologia** 750:147-170.
- Bucciarelli, G.M., A.R. Blaustein, T.S. Garcia and L.B. Kats. 2014. Invasion complexities: the diverse impacts of nonnative species on amphibians. **Copeia** 2014:611-632.
- Bucciarelli, G.M., A. Li*, L.B. Kats and D.B. Green. 2014. Quantifying tetrodotoxin in the California newt using a non-destructive sampling method. **Toxicon** 80:87-93.

- Kats, L.B., G.M. Bucciarelli, T.L. Vandergon, R.L. Honeycutt, E. Mattiasen*, A. Sanders*, S.P.D. Riley, J.L. Kerby and R.N. Fisher. 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.
- Carr, K.S., S.D. Davis, S. Erbes, C.M. Fulmer, L.B. Kats and M. Umbro Teetzal. 2013. Developing first-year students as scholars. **Council on Undergraduate Research Quarterly** 33:8-15.
- Kats, L.B., G.M. Bucciarelli, D.E. Schlais*, A.R. Blaustein and B.A. Han. 2012. Ultraviolet radiation influences perch selection by a neotropical poison-dart frog. **PLoS ONE** 7: e51364 doi:10.1371/journal.pone.0051364.
- Bancroft, B.A., B.A. Han, C. L. Searle, L.M. Biga, D.H. Olson, L. B. Kats, J.J. Lawler and A.R. Blaustein. 2011. Species-level correlates of susceptibility to the pathogenic amphibian fungus *Batrachochytrium dendrobatidis* in the United States. **Biodiversity and Conservation** 20:1911-1920.
- Kats, L.B. 2011. Review of: Encyclopedia of Biological Invasions, D. Simberloff and M. Rejmanek (editors). **Copeia** 2011: 169-170.
- Blaustein, A.R., B.A. Han, R.A. Relyea, P.T.J. Johnson, J.C. Buck, S.S. Gervais and L.B. Kats. 2011. The complexity of amphibian population declines: understanding the role of co-factors in driving amphibian losses. **Annals of the New York Academy of Sciences** 1223:108-119.
- Kats, L.B., R. Van Dragt, G. Van Dragt, S. Rollert*, T. Thurling*, R. Johnson*, D. Cho*, and S. Landis*. 2008. Undergraduate research: Communicating ecological field studies to local school children through outreach and curriculum. **Council on Undergraduate Research Quarterly** 29:58-62.
- Han*, B.A., L.B. Kats, R.C. Pommerening*, R.P. Ferrer, M. Murry-Ewers and A.R. Blaustein. 2007. Behavioral avoidance of ultraviolet-B by two species of neotropical poison-dart frogs. **Biotropica** 39:433-435.
- Zimmer, R.K., D.W. Schar, R.P. Ferrer, P.J. Krug, L.B. Kats and W.C. Michel. 2006. The scent of danger: tetrodotoxin (TTX) as an olfactory cue of predation risk. **Ecological Monographs** 76:585-600.
- Watters*, T.S. and L.B. Kats. 2006. Longevity and breeding pool fidelity in the California newt (*Taricha torosa*): A long-term study using PIT tagging. **Herpetological Review** 37:151-152.
- Kerby, J.L., S.P.D. Riley, L.B. Kats and P. Wilson. 2005. Barriers and flow as limiting factors in the spread of an invasive crayfish (*Procambarus clarkii*) in southern

California streams. **Biological Conservation** 126:402-409.

Riley, S.P.D., G.T. Busteed, L.B. Kats, T.L. Vandergon, L.F.S. Lee, R.G. Dagit, J.L. Kerby, R. N. Fisher and R.M. Sauvajot. 2005. Effects of urbanization on the distribution and abundance of amphibians and invasive species in southern California streams. **Conservation Biology** 19:1894-1907.

Blaustein, A.R., B. Han, B. Fasy, J. Romansic, E.A. Scheessele, R.G. Anthony, A. Marco, D.P. Chivers, L.K. Belden, J.M. Kiesecker, T. Garcia, M. Lizana and L.B. Kats. 2004. Variable breeding phenology affects the exposure of amphibian embryos to ultraviolet radiation and Optical characteristics of natural waters protect amphibians from UV-B in the U.S. Pacific Northwest: Comment. **Ecology** 85:1747-1754.

Blaustein, A.R. and L.B. Kats. 2003. Amphibians in a very bad light. **BioScience** 53:1028-1029.

Sih, A., L.B. Kats and E. Maurer. 2003. Behavioural correlations across situations and the evolution of antipredator behaviour in a sunfish-salamander system. **Animal Behaviour** 65:29-44.

Kats, L.B. and R.P. Ferrer*. 2003. Alien predators and amphibian declines: Review of two decades of science and the transition to conservation. **Diversity and Distributions** 9:99-110.

Kats, L.B., J.M. Kiesecker, D.P. Chivers and A.R. Blaustein. 2002. Effects of UV-B radiation on antipredator behavior in amphibians: a reply to Cummins. **Ethology** 108:649-654.

Blaustein, A.R., L.K. Belden, A.C. Hatch, L.B. Kats, P.D. Hoffman, J.B. Hayes, A. Marco, D.P. Chivers and J.M. Kiesecker. 2001. Ultraviolet radiation and amphibians. In **Ecosystems and Ultraviolet Radiation**. C.S. Cockell and A.R. Blaustein, eds. Springer Verlag Publishers, New York.

Sih, A., L.B. Kats and E. Maurer. 2000. Phylogenetic inertia and differences between *Ambystoma texanum* and *Ambystoma barbouri* in antipredator behavior. **Behavioral Ecology and Sociobiology** 49:48-56.

Kats, L.B., J.M. Kiesecker, D.P. Chivers and A.R. Blaustein. 2000. Effects of UV-B radiation on antipredator behavior in three species of amphibians. **Ethology** 106:921-932.

Blaustein, A.R., D.P. Chivers, L.B. Kats and J.M. Kiesecker. 2000. Effects of ultraviolet radiation on locomotion and orientation in rough skin newts (*Taricha granulosa*). **Ethology** 106:227-234.

Chivers, D.P., J.M. Kiesecker, E.L. Wildy, L.K. Belden, L.B. Kats and A.R. Blaustein.

1999. Avoidance response of post-metamorphic anurans to cues of injured conspecifics and predators. **Journal of Herpetology** 33: 472-476.
- Goodsell*, J.A. and L.B. Kats. 1999. Effect of introduced mosquitofish on Pacific treefrogs and the role of alternative prey. **Conservation Biology** 13:921-924.
- Kats, L.B. and L.M. Dill. 1998. The scent of death: chemosensory assessment of predation risk by prey animals. **Ecoscience** 5:361-394.
- Anzalone, C.B., L.B. Kats and M. Gordon. 1998. Effects of solar UV-B on embryonic development in three species of lower latitude and lower elevation amphibians. **Conservation Biology** 12:646-653.
- Kerby*, J.L. and L.B. Kats. 1998. Modified interactions between salamander life stages caused by wildfire induced sedimentation. **Ecology** 79:740-745.
- Gamradt*, S.C. and L.B. Kats. 1997. Impact of chaparral wildfire induced sedimentation on oviposition of stream-breeding California newts (*Taricha torosa*). **Oecologia** 110:546-549.
- Gamradt*, S.C., L.B. Kats and C.B. Anzalone. 1997. Aggression by non-native crayfish deters breeding in California newts. **Conservation Biology** 11:793-796.
- Gamradt*, S.C. and L.B. Kats. 1996. Effect of introduced crayfish and mosquitofish on California newts (*Taricha torosa*). **Conservation Biology** 10:1155-1162.
- Kats, L.B., J.A. Breeding*, K.M. Hanson* and P. Smith*. 1994. Ontogenetic changes in California newts (*Taricha torosa*) in response to chemical cues from conspecific predators. **Journal of the North American Benthological Society** 13:321-325.
- Dodson, S.A., T.A. Crowl, B.L. Peckarsky, L.B. Kats, A.P. Covich and J.M. Culp. 1994. Non-visual communication in freshwater benthos: an overview. **Journal of the North American Benthological Society** 13:268-282.
- Sih, A. and L.B. Kats. 1994. Age, experience, and the response of streamside salamander hatchlings to chemical cues from predatory sunfish. **Ethology** 96:253-259.
- Elliott*, S.A., L.B. Kats and J.A. Breeding*. 1993. The use of conspecific chemical cues for cannibal avoidance in California newts (*Taricha torosa*). **Ethology** 95:186-192.
- Ashley*, E.J., L.B. Kats and J.M. Wolfe. 1993. Balancing trade-offs between risk and changing shoal size in northern red-belly dace (*Phoxinus eos*). **Copeia** 1993:540-542.
- Sih, A., L.B. Kats and R.D. Moore*. 1992. Effects of predatory sunfish on the density, drift, and refuge use of stream salamander larvae. **Ecology** 73:1418-1430.

Kats, L.B., S.A. Elliott* and J. Currens*. 1992. Intraspecific oophagy in stream-breeding California newts (*Taricha torosa*). **SSAR Herpetological Review** 23:7-8.

Kats, L.B. and A. Sih. 1992. Oviposition site selection and the avoidance of fish by small-mouthed salamanders. **Copeia** 1992:468-473.

Sih, A. and L.B. Kats. 1991. Effects of refuge availability on the responses of salamander larvae to chemical cues from predatory green sunfish. **Animal Behaviour** 42:330-332.

Kats, L.B. 1988. Recognition of some predators via olfaction by *Ambystoma texanum*. **Behavioral and Neural Biology** 50:126-131.

Kats, L.B., J.W. Petranka and A. Sih. 1988. Antipredator defenses and the persistence of amphibian larvae with fishes. **Ecology** 69:1865-1870.

Sih, A., J.W. Petranka and L.B. Kats. 1988. The dynamics of prey refuge use: a model and tests with sunfish and salamander larvae. **American Naturalist** 132:463-483.

Petranka, J.W., A. Sih, L.B. Kats and J.R. Holomuzki. 1987. Stream drift, size-selective predation and the evolution of ovum size in an amphibian. **Oecologia** 71:624-630.

Petranka, J.W., L.B. Kats and A. Sih. 1987. Predator-prey interactions among fish and amphibians: use of chemical cues to detect predatory fish. **Animal Behaviour** 35:420-425.

Kats*, L.B. and R.D. Van Dragt. 1986. Background color-matching in the spring peeper (*Hyla crucifer*). **Copeia** 1986:109-115.

PRESENTED PAPERS:

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

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

Rizzo*, D., B.K. Muramoto*, D. Addison*, A. Fontes* and L.B. Kats. Effect of melanized spots on the feeding behavior of the invasive species *Procambarus clarkii*. 2019. **Southern California Conference for Undergraduate Research.**

Sturtevant*, M., L.B. Kats, A. Garnica and A. Vargas. UVB avoidance over time by juvenile *Dendrobates azureus*. 2018. **Southern California Conference for**

Undergraduate Research.

- Smith*, S, G. 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.**
- Fontes*, A., L.B. Kats and G. Bucciarelli. 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.**
- Barnhouse*, A. and L.B. Kats. The effects of temperature on intraspecific aggression on *Procambarus clarkii*. 2018. **Southern California Conference for Undergraduate Research.**
- Swift, C., S.D. Davis, J. Brewster, R.L. Honeycutt, L.B. Kats, D. Mborá, H. Valenzuela and S. Veltrone. Introducing authentic research into the first-year experience: The impact of summer research experiences. 2018. **Ecological Society of America.**
- Muramoto*, B., T. Farley*, N. Martin* and L.B. Kats. Effect of locality on agonistic behavior in the invasive species *Procambarus clarkii*. 2018. **Ecological Society of America.**
- Chan*, G.E., M.A. Kenyon*, S. Ngo* and L.B. Kats. The effect of physical stress signals on conspecific interactions in green and black poison frogs (*Dendrobates auratus*). 2017. **Southern California Conference for Undergraduate Research.**
- Martin*, N., G. Palmeri*, B. Muramoto*, A. Vargas, and L.B. Kats. Intraspecific cannibalism of larvae among California newts. 2017. **Southern California Conference or Undergraduate Research.**
- Muromoto*, B.K., N. Martin*, T. Farley*, W. Ota* and L.B. Kats. Effect of locality on aggressive behavior in the invasive crayfish, *Procambarus clarkii*. 2017. **Southern California Conference for Undergraduate Research.**
- Herko, R.T., D. Fountaine and L.B. Kats. Water rights in California: Competition and cooperation in a dynamic environment. 2017. **Academy of Management Proceedings: Environmental Challenges, Social Innovations and Sustainable Entrepreneurship.**
- Flores*, A., L.B. Kats, D.B. Green and G.M. Bucciarelli. Effect of nitrate on the release of glucose into the hemolymph of crayfish *Procambarus clarkii*. 2016. **American Chemical Society.**
- Flores*, A., G.M. Bucciarelli, D.B. Green and L.B. Kats. Nitrate toxicity to crayfish, effect of nitrate pollutant runoff on hemolymph nitrate and glucose concentrations. 2015. **Southern California Conference for Undergraduate Research.**

Suh*, D., J. Choe* and L.B. Kats. The impact of turbidity on the predator-prey relationship between red swamp crayfish and Pacific treefrog tadpoles. 2015. **Southern California Conference for Undergraduate Research.**

Bucciarelli, G.M. and L.B. Kats. Fluctuations of toxin levels in a chemically defended amphibian. 2015. **18th World Congress of the International Society on Toxinology Oxford University.**

Stucky*, T., A. Garnica* and L.B. Kats. Effects of UV-radiation on feeding behavior in the poison dart frog, *Dendrobates tinctorius*. 2014. **Southern California Conference for Undergraduate Research.**

Olsen*, B., W. Ota*, G.M. Bucciarelli and L.B. Kats. Effect of tetrodotoxin from newts on invasive New Zealand mud snails. 2014. **Southern California Conference for Undergraduate Research.**

Li*, A., G. Bucciarelli, L.B. Kats and D.B. Green. Reduced sample size and improved extraction and recovery of tetrodotoxin from the California newt, *T. torosa*, with quantitation by HPLC-FLD. 2014. **American Chemical Society.**

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

Sokolova*, A., N. Huron, A. Reimer, G. Bucciarelli and L.B. Kats. Effects of tetrodotoxin on New Zealand mud snails. 2013. **Southern California Conference for Undergraduate Research.**

Thompson*, C., L.B. Kats and R. Honeycutt. Population differences in response to an invasive predator in the Pacific treefrog. 2013. **Southern California Conference for Undergraduate Research.**

Fitzgerald*, G., G. Smith*, D. Thompson and L.B. Kats. Cardiovascular health of young adults: a comparative study. 2012. **Southern California Conference for Undergraduate Research.**

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

Liao*, J., A. Nakahar*, A. Sokolova*, G. Bucciarelli and L.B. Kats. Activated carbon adsorption of tetrodotoxin. 2012. **Southern California Conference for Undergraduate Research.**

Liao*, J., N. Novella*, C. Sutter* and L.B. Kats. The effects of stream flow on invasive

New Zealand mudsnail, *Potamopyrgus antipodarum*, dispersal. 2012. **Southern California Conference for Undergraduate Research.**

Ortiz*, M., S. Warford, L.B. Kats and R. Honeycutt. Excel-based approach for information retrieval and analysis of population data from the California newt, *Taricha torosa*. 2012. **Southern California Conference for Undergraduate Research.**

Sutter*, C.M., N.A. Novella*, L.B. Kats and G. Bucciarelli. The effect of UV radiation on aggression levels in *Oophaga pumilio*, the strawberry poison dart frog. 2012. **Southern California Conference for Undergraduate Research.**

Thompson*, C. and L.B. Kats. Construction of caddisfly (Trichoptera) cases, and potential benefits of leaf cases. 2012. **Southern California Conference for Undergraduate Research.**

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. **American Chemical Society Western Regional Meeting.**

Uemura*, E., J. Buie*, N. Huron* and L.B. Kats. Effects of chemical cues from California newt (*Taricha torosa*) on an invasive crayfish (*Procambarus clarkii*). 2011. **Southern California Conference for Undergraduate Research.**

Uemura*, E., D. Lim*, and L.B. Kats. Effects of UV light on local stream frogs' behaviors. 2010. **Southern California Conference for Undergraduate Research.**

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

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

Chung*, J., C. Hwang*, M. Bender*, F. Sapigao*, G. Bucciarelli, T. Vandergon, R.L. Honeycutt and L.B. Kats. Longterm coexistence of native amphibians and invasive crayfish mediated by flood events. 2010. **Joint Meeting of Ichthyology and Herpetology.**

Sapigao*, F.B., B.A Smith*, C.S. Hwang*, J.K. Chung*, M.T. Bender*, J. Jackson*, R.N. Fisher and L.B. Kats. Study of aggression behaviors of *P. clarkii* in response to nitrates in runoff. 2009. **Southern California Conference for Undergraduate Research.**

- Kats, L.B., S. Rollert*, T. Thurling*, S. Landis* and D. Cho*. Amphibian life in response to the active removal of exotic species in streams in the Santa Monica Mountains. 2007. **Southern California Academy of Sciences.**
- Riley, S.P.D., G.T. Busteed, L.B. Kats, T.L. Vandergon, L.F.S. Lee, R.G. Dagit, J.L. Kerby, R.N. Fisher and R.M. Sauvajot. Effects of urbanization on the distribution and abundance of amphibians and invasive species in Southern California Streams. 2007. **Southern California Academy of Sciences.**
- Jones*, L.H., T.S. Watters*, S. Dudley*, G. Van Dragt, R. Van Dragt and L.B. Kats. A habitat-specific education program to increase awareness of the role of introduced predators in native species decline. 2006. **Society for Conservation Biology.**
- Jones*, L.H., T.S. Watters*, S.D. Dudley*, G.J. Van Dragt, R.V. Van Dragt and L.B. Kats. A place specific program to increase awareness of introduced stream predators and their role in native amphibian decline. 2006. **Southern Academy of Sciences.**
- Jones*, L.H., T.S. Watters*, S. O'Hare*, M. Lorente, M.A. Kerby and L.B. Kats. Habitat restoration and seasonal removal of invasive stream predators to protect sensitive amphibian populations. 2005. **Santa Monica Bay Restoration Conference.**
- Blaustein, A.R. and L.B. Kats. To seek or not to seek sunlight? That is the question. 2004. **Ecological Society of America.**
- Watters*, T.S., L.H. Jones*, S. O'Hare*, M.A. Kerby and L.B. Kats. Seasonal removal of invasive stream predators to protect sensitive amphibian populations. 2004. **Ecological Society of America.**
- Busteed, G.T., S.P.D. Riley, L.B. Kats, T. Vandergon, R. Dagit, C. Bromley, P. Roby, C. Schoonmaker, L. Lee, B. Westerhouse, J. Sikich and R. Fisher. Urban impacts on terrestrial and aquatic reptile and amphibian communities in southern California. 2004. **Society for Conservation Biology.**
- Blaustein, A.R., B.A. Han, L.K. Belden, J.M. Kiesecker, D. Chivers, A. Marco, E. Fasy and L.B. Kats. Are amphibians exposed to harmful levels of ultraviolet-B radiation? 2003. **Ecological Society of America.**
- Skibieli*, A.L., L.B. Kats and T. L. Vandergon. Microsatellite allele composition differs significantly between two populations of the California newt, *Taricha torosa*, in the Santa Monica Mountains. 2003. **Society for Integrative and Comparative Biology.**
- Foust*, S.J., S.A. Thompson*, S.L. Griswold*, E.C. Gurrola* and L.B. Kats. Response of leaf-cutting ants to predator chemical cues. 2002. **Society for Integrative and Comparative Biology.**
- Han*, B.A., L.B. Kats, R.C. Pommering*, M.A. Murry, J.M. Kiesecker, and A.R.

Blaustein. Avoidance of ultraviolet radiation (UV-B) by two species of diurnal poison-dart frogs. 2002. **Society for Integrative and Comparative Biology.**

Kats, L.B. and L.M. Dill. Chemosensory assessment of predation risk in complex aquatic habitats. 1997. Combined meetings of the **Society for the Study of Amphibians and Reptiles and American Society of Ichthyology and Herpetology.**

Goodsell*, J.A. and L.B. Kats. Effect of introduced mosquitofish on the Pacific treefrog (*Hyla regilla*). 1997. Combined meetings of the **Society for the Study of Amphibians and Reptiles and American Society of Ichthyology and Herpetology.**

Kerby*, J.L. and L.B. Kats. Indirect effects of chaparral fire on California newts (*Taricha torosa*). 1995. **Meeting of the Society for the Study of Amphibians and Reptiles.**

Gamradt*, S.C. and L.B. Kats. Effects of introduced predators on California newts (*Taricha torosa*). 1995. **Meeting of the Society for the Study of Amphibians and Reptiles.**

Hanson*, K.M. and L.B. Kats. Ontogenetic changes in California newts (*Taricha torosa*) in response to conspecific predators. 1994. **Annual West Coast Undergraduate Research Conference in Biological Sciences.**

(The above paper won the award for the best student paper in that session)

Zalisko, E., L.B. Kats and T. Marcacci*. A survey of general zoology instruction at colleges and universities in the United States and Canada. 1993. **Meetings of the American Society of Zoology.**

Kats, L.B., J.A. Breeding*, K.M. Hanson* and P. Smith*. Use of conspecific chemical cues to assess risk of cannibalism. 1993. **Meetings of the North American Benthological Society.**

Elliott*, S.A. and L.B. Kats. Use of conspecific chemical cues to avoid intraspecific predators in California newts (*Taricha torosa*). 1992. **Meetings of the Ecological Society of America.**

VanRheenen*, N.T. and L.B. Kats. Movement and body temperature patterns of gopher snakes (*Pituophis melanoleucus*) in the Santa Monica Mountains. 1992. **California Undergraduate Research Conference.**

Ashley*, E.J., L.B. Kats and J.M. Wolfe. Balancing trade-offs between risk and shoal size in northern red-belly dace. 1991. **Meetings of the Ecological Society of America.**

Kats, L.B. and A. Sih. Mechanisms of coexistence for stream salamander larvae with predatory fish. 1988. **Meetings of the Ecological Society of America.**

Kats, L.B., J.W. Petranka and A. Sih. Use of chemical cues to detect predatory fish by larval amphibians. 1986. **Meetings of the Ecological Society of America.**

Kats, L.B. and R.D. Van Dragt. Substrate color-matching in the spring peeper. 1984. **Meetings of the Ecological Society of America.**

GENERAL PUBLICATIONS:

Dagit, R., F. Federico, L. Kats and E.D. Stein. 2015. State of the Bay Report: Habitat conditions: Freshwater aquatic and riparian habitats. **Urban Coast 5:** 48-58.

Benton, A. and L.B. Kats. 2015. Waves of innovation: creativity and community at Pepperdine University. **TIAA-CREF Institute** Fall 2015: 1-9.

Riley, S.P.D., L.B. Kats and R.N. Fisher. December 2005-January 2006. Study shows that urbanization leads to amphibian declines in Southern California coastal watersheds. **USGS Sound Waves:** 2006:11-12.

BOOKS:

Hickman, C.P. Jr., L.B. Kats and S. Keen. 2019 (nineteenth edition). **Laboratory Studies in Integrated Zoology.** McGraw-Hill Publishers.

Hickman, C.P. Jr., L.B. Kats and S. Keen. 2021 (ninth edition). **Laboratory Studies in Animal Diversity.** McGraw-Hill Publishers.

PROFESSIONAL SOCIETIES:

Association for Tropical Biology and Conservation	2006-Present
Council on Undergraduate Research	2003-Present
Society for Conservation Biology	1996-Present
Herpetologist's League	1994-Present
The International Society of Behavioral Ecology	1991-Present
The American Museum of Natural History	1989-Present
The Animal Behaviour Society	1989-Present
The Ecological Society of America	1986-Present
The Society for the Study of Amphibians and Reptiles	1985-Present
The American Society of Ichthyology and Herpetology	1985-Present

INVITED RESEARCH SEMINARS:

2024 Aquarium of the Pacific

- 2016 National University of La Plata, Argentina
- 2016 UC, Santa Barbara, Dept. of Ecology and Evolutionary Biology
- 2013 UCLA, Dept. of Ecology and Evolutionary Biology
- 2013 California Science Center
- 2013 Los Angeles County Natural History Museum
- 2010 Graduate Student Colloquium on Higher Education., UCLA
- 2009 Graduate Student Colloquium on Higher Education., UCLA
- 2003 Department of Biology, St. Edwards University, Texas
- 2002 Department of Biology, Florida Atlantic University
- 2001 Department of Biology, Southwestern University, Texas
- 2000 Department of Biology, University of Texas, Arlington
- 1998 Department of Biology, Loma Linda University, California
- 1997 National Zoological Park, Smithsonian Institution, Washington, D.C.
- 1997 Department of Biology, California State University, Northridge
- 1996 Zoology Department, Oregon State University
- 1994 Department of Biology, University of California, San Diego
- 1994 Department of Biology, University of California, Los Angeles
- 1992 Santa Barbara Natural History Museum, California
- 1990 Department of Biology, Austin College, Texas
- 1990 Department of Zoology, Eastern Illinois University
- 1989 Kellogg Biological Station, Michigan State University
- 1988 Department of Biology, Greenville College, Illinois
- 1986 Department of Biology, Calvin College, Michigan

INVITED RESEARCH SYMPOSIA:

- 2017 Tropical Biology, Southern California Academy of Sciences, Annual Meeting
- 2013 Challenges in Aquatic Sciences, National Taiwan Ocean University, Keelung, Taiwan
- 2010 State of the Santa Monica Bay Conference, Santa Monica Bay Restoration Commission, Los Angeles, California
- 2007 Aquatic Invasive Species: Hazard Analysis Workshop, Santa Monica Bay Restoration Commission, Los Angeles, California
- 2000 Planning for Biodiversity, US Geological Survey, Pomona, California
- 2000 Wildlife Society, Western Section, Riverside, California
- 1998 Western Society of Naturalists, San Diego, California
- 1998 National Park Service, Vital Signs Assessing Park Resources, Portland, OR
- 1997 American Society of Ichthyology and Herpetology, Seattle, Washington
- 1993 North American Benthological Society Meetings, Calgary, Canada

INVITED PROFESSIONAL ACTIVITIES:

Board Member: **Marine Conservation Research Institute: Aquarium of the Pacific.** The mission of the Institute is to facilitate the integration and interaction between the Aquarium, the scientific community and the general public.

Outside reviewer for the **National Science Foundation**
Natural Environment Research Council (Great Britain)
Canadian Research Council

Member of Editorial Board and Associate Editor for two scientific journals:
Conservation Biology and **Hydrobiologia**.

Serve on the governing boards of two nonprofit conservation organizations: **The Mountains Restoration Trust** and **TreePeople**.

Moderator "Wildlife Issues and the Future of the Endangered Species Act" at the Annual meeting of the **National Association of Environmental Law Societies**.

Planning Committee: First Annual Citizen Science Symposium, **Aquarium of the Pacific**.

Reviewer of numerous manuscripts for **Advances in Ecology, The American Naturalist, Animal Behaviour, African Journal of Herpetology, Behavioral Ecology, Behavioral Ecology and Sociobiology, Biology Letters, Biological Conservation, BioScience, Canadian Journal of Zoology, Copeia, Conservation Biology, Ecology, Ecoscience, Environmental Pollution, Functional Ecology, Herpetological Natural History, Herpetologica, Herpetology, Journal of Chemical Ecology, Journal of Experimental Marine Biology and Ecology, Journal of Herpetology, Oecologia, PLOS One, The Proceedings of the National Academy of Sciences, Public Management Review** and **Scientific Reports**.

DISSERTATION COMMITTEES:

Belden, Lisa. Ph.D. Oregon State University. Dissertation title: Effects of solar UV-B on competition in two species of frog tadpoles.

Schar, Daniel. Ph.D. UCLA. Dissertation title: Flow dynamics involved in conspecific communication in the California newt.

Kerby, Jacob, M.S. California State University, Northridge. Thesis title: Factors that limit the distribution of a non-native crayfish in the Santa Monica Mountains.

Han, Barbara. Ph.D. Oregon State University. Dissertation title: The effects of an emerging pathogen on amphibian host behaviors and interactions.

Ferrer, Ryan. Ph.D. UCLA. Dissertation title: Chemosensory reception, behavioral expression, and ecological interactions at multiple trophic levels.

Pease, Katherine. Ph.D. UCLA. Dissertation title: Rapid evolution of anti-predator

defenses in Pacific tree frog tadpoles exposed to predatory invasive crayfish.

Bucciarelli, Gary. Ph.D. UCLA. Dissertation title: Phenotypic variation of toxin levels in a chemically defended amphibian: the ecological and evolutionary significance of tetrodotoxin.