

Breanna J. Putman

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CURRENT POSITIONS

California State University, Long Beach *Jan. 2025 – present*
Assistant Professor of Biological Sciences

Natural History Museum of Los Angeles County *Sept. 2016 – present*
Research Associate

PREVIOUS POSITIONS

California State University, San Bernardino *2019 – 2024*
Assistant/Associate Professor of Biology

Organization for Tropical Studies, Costa Rica *2016 – 2021*
Field Research Mentor for the NSF LSAMP REU for Underrepresented
Minority Students Summer Program

California State University, Long Beach *2018 – 2019*
Lecturer in Biological Sciences

UCLA and the Natural History Museum of Los Angeles County *2016 – 2018*
NSF Postdoctoral Fellow

EDUCATION

San Diego State University and UC Davis *June 2016*
Ph.D. in Ecology
Major Advisors: Dr. Rulon Clark (SDSU) and Dr. Richard Coss (UCD)

California Polytechnic State University, San Luis Obispo *Dec. 2009*
B.S. in Ecology, Minor in Spanish
Major Advisor: Dr. Emily Taylor
Magna Cum Laude

Teaching Activities

COURSES TAUGHT

Current Courses at CSULB

- Herpetology (BIOL 421, 3-4 units) *Spring 2025, 2026*
- Special Topics: Urban Ecology (BIOL 490/590, 3 units) *Fall 2025*

Graduate Level Courses

- Professional Writing in Biology (BIOL 6020); CSUSB 2021, 2024
- Primary Literature in Biology (BIOL 6100); CSUSB 2023

Undergraduate Level Courses (upper division)

- Herpetology (BIOL 3440); CSUSB 2021, 2023, 2024
- Biostatistics and Experimental Design (BIOL 5050); CSUSB 2021–2023
- Ecology (BIOL 450/3800); CSUSB 2020
- Special Topics: Biological Data in R (BIOL 490D); CSUSB 2020
- Biology Seminar (BIOL 591); CSUSB 2019–2020
- Herpetology (BIOL 421); CSULB 2019
- Vertebrate Zoology (BIOL 324); CSULB 2018–2019
- Experimental Ecology (BIOL 354L); SDSU 2014

Undergraduate Labs (as TA)

- Marine Ecology (BIOL 517); SDSU 2016
- Ecology and Environment (BIOL 354); SDSU 2012–2013
- General Biology Lab (BIOL 100L); SDSU 2010
- Ornithology (ZOO 323); Cal Poly San Luis Obispo 2009

OTHER TEACHING EXPERIENCE

Invited Faculty

- Undergraduate Tropical Biology Course; Organization for Tropical Studies, Costa Rica 2025

Guest Lecturer

- Herpetology Class; Sacramento State University 2020
- Earth Science Class; Santa Maria High School, CA 2017
- Animal Behavior Class; San Diego State University, CA 2014
- Graduate School Preparatory Seminar; San Diego State University, CA 2012
- Animal Behavior Class; Mills College, CA 2012

MENTORING EXPERIENCE

Organized Programs

- Co-organizer and Undergrad Mentor; RESCUE-Net Multisite Undergraduate Research Project ([website](#)) 2024–2025
- Researcher Co-mentor; the UNLAB program at NHMLA ([website](#)) 2023–2025
- Undergrad Mentor; Undergraduate Summer Research Program at CSUSB ([website](#)) 2022–2023
- NSF LSAMP REU for Underrepresented Minority Students Summer Program; Organization for Tropical Studies, Costa Rica ([video](#)) 2018–2021
- The Native American and Pacific Islander Research Experience (NAPIRE) Program; Organization for Tropical Studies, Costa Rica 2016

Direct Supervision of Undergraduate Mentees

- Edward Dao, Della Metanai, Amaya Rodriguez, Julia Zhou (CSULB)

Project: *Effects of Urbanization on Rattlesnake Defensive Behaviors*

- Alexis Elson and Faizah Hossain (CSULB)
Project: *Herpetofauna Species Richness in Southern California Orchards*
- Deanni Armstrong (CSUSB) and Brenden Saraf (CSULB)
Project: *Effects of urbanization on the ecophysiology of lizards*
- Joey Guerrero (CSUSB)
Project: *Effects of urbanization on the limb and toe lengths and asymmetry in Western Fence Lizards*
- Bayley Stevens (CSUSB)
Project: *Urbanization affects throat patch size in Western Fence Lizards*
- Elmer Gutierrez, Elie Ashkar, Jessica Navarro (CSUSB)
Project: *Use of coverboards to estimate herpetofauna populations across a gradient of human impacts (urbanization and fragmentation)*
- Sarah Vasquez (CSUSB)
Project: *Effects of urbanization on the skin microbiome of *Sceloporus occidentalis**
- Emily Urquidi (CSUSB)
Project: *Quantifying southern Pacific rattlesnake hunting behavior through citizen science*
- Nina Fresco (CSUSB)
Project: *Signaling in an urbanized world: a study on ventral patch size and symmetry in the western fence lizard (*Sceloporus occidentalis*)*
- Zack Tippie (CSUSB)
Project: *What makes an urban lizard? A global meta-analysis*
- Keitty Calderon-Chalco (Life Science Dean's Award Scholar, UCLA)
Project: *Use of clay lizard models to evaluate the effect of color markings on predation risk in fence lizards (*Sceloporus occidentalis*)*
- Riley Williams (post-grad student, NHMLA)
Project: *The effect of urbanization on tail autotomy and ectoparasite load in the southern alligator lizard, *Elgaria multicarinata**
- Maria Gasca (CARE Fellows Scholar, UCLA)
Project: *Morphological and meristic changes in *Uta stansburiana* and *Sceloporus occidentalis* in rural to urban transitions in Southern California*
- Lauren Kong (Barrett Research Scholar, Mills College)
Project: *Do snakes stress out squirrels?*
- Jennifer Schefski (SDSU)
Project: *The importance of olfaction in snake detection and discrimination by California ground squirrels (*Otospermophilus beecheyi*)*
- Rey Ayon (NIH IMSD Scholar, SDSU)
Project: *Rattlesnake encounters enhance vigilance behavior of California ground squirrels (*Otospermophilus beecheyi*)*

Other Mentorship

- Advisement of CSULB AI Club student project on creating a machine learning model for coding animal behaviors from iNaturalist (2025-present)

PROFESSIONAL DEVELOPMENT IN TEACHING & MENTORING

Inclusive Excellence in Pedagogy Faculty Learning Community; CSULB	2025-2026
College of Natural Science and Mathematics Faculty Learning Community; CSULB	2025-2026
The Challenge of Bias in AI Online Workshop	2025
Advancing Inclusive Mentoring: The Beach Mentor Program; CSULB	2025
Mentor Training for the NSF RaMP UNLAB program at NHMLA	2023, 2024
Belonging in Field Education Community of Practice; virtual	2023–2024
Faculty Learning Community for Culturally-Responsive Teaching; CSUSB	2021
EREN-NEON Flexible Learning Project Faculty Mentoring Network; virtual	2020
Best Practices in Alternate Teaching Modalities; CSUSB	2020
Faculty Learning Community for Large Lectures; CSUSB	2019–2020
New Faculty Workshops on “How Students Learn”; CSUSB	2019–2020
How to be an Ally Training; UCLA	2018
Course on Evidence-Based Undergraduate STEM Teaching; Center for the Integration of Research, Teaching, and Learning (CIRTL) Online Course	2017
Entering Mentoring Training (EMT) Program; UCLA	2017
Diversity in the Classroom Training; Graduate Teaching Community; UCD	2012

Research Activities

PEER-REVIEWED PUBLICATIONS

* - denotes student author

- Gutierrez, E.E.*, and **B.J. Putman**. 2026. When the Cover Burns: Behavioral and Morphological Responses of Western Fence Lizards (*Sceloporus occidentalis*) to Increased Openness in Post-Fire Environments. *Ecology and Evolution* 16:e73673.
- Urquidi, E.R.*, and **B.J. Putman**. 2026. You can't bask with us: does urbanization affect response to invasive and native competitors in lizards? *Animal Behaviour* 236:123602.
- Heard, M.J., **B.J. Putman**, S.H. Riskin, C.J. Thawley. 2025. Using iNaturalist Photos to Teach Students About How Urbanization Impacts Organisms. *The American Biology Teacher* 87: 286–291.
- Putman, B.J.**, B. Stevens*, N.A. Fresco*, E.R. Urquidi*. 2025. Effects of Urbanization on Ventral Patch Size and Phenotypic Correlates of Patch Expression in Male Western Fence Lizards (*Sceloporus occidentalis*). *Ecology and Evolution* 15:e70915.
- Berger-Tal, O., B.B.M. Wong, C.A. Adams, D.T. Blumstein, U. Candolin, M.J. Gibson, A.L. Greggor, M. Lagisz, B. Macura, C.J. Price, **B.J. Putman**, L. Snijders, S. Nakagawa. 2024. Opinion: Leveraging AI to improve evidence synthesis in conservation. *Trends in Ecology and Evolution* 39:548-557.

- Putman, B.J.**, M. Rensel, B.A. Schlinger, S. French, D.T. Blumstein, G.B. Pauly. 2024. Comparing Fear Responses of Two Lizard Species Across Habitats Varying in Human Impact. *Journal of Urban Ecology* 10: juae002.
- delBarco Trillo, J., **B.J. Putman**. 2023. Not all cities are the same: variation in animal phenotypes across cities within urban ecology studies. *Urban Ecosystems* 26:1725-1737.
- Martin, C.E., G.A. Fox, **B.J. Putman**, W.K. Hayes. 2023. Social Security: Can rattlesnakes reduce acute stress through social buffering? *Frontiers in Ethology* 2:1181774
- Álvarez-Ruiz, L., J.G. Pausas, D.T. Blumstein, **B.J. Putman**. 2023. Lizard responses to the sound of fire is modified by fire history. *Animal Behaviour* 196:91-102.
- Mychajliw, A.M.#, E.R. Ellwood#, P. Alagona, S. Anderson, M. Balisi, E. Biber, J. Brown, A.J.W. Hendy, L.M. Higgins, C.A. Hofman, A. Leger, M. Ordeñana, G.P. Pauly, **B.J. Putman**, J.M. Randall, S.P.D. Riley, A.J. Schultz, M.A. Stegner, T.A. Wake, E.L. Lindsey. 2022. Lessons for conservation from beneath the pavement. *Conservation Biology*:e13983. #denotes joint first authorship.
- Lopera, D.*, K. Chen Guo*, **B.J. Putman**, L. Swierk. 2022. Keeping it cool to take the heat: tropical lizards have greater thermal tolerance in less disturbed habitats. *Oecologia* 199:819–829.
- Wuthrich, K.L.*, D. Stock, J.B. Talavera*, **B.J. Putman**, L. Swierk. 2022. Sexual signal conspicuity is correlated with tail autotomy in an anoline lizard. *Current Zoology* 68:129-132.
- Urquidi, E.R.*, **B.J. Putman**. 2021. Quantifying Southern Pacific Rattlesnake (*Crotalus oreganus helleri*) hunting behavior through community science. *Diversity* 13:349.
- Putman, B.J.**, R. Williams*, E. Li, G.B. Pauly. 2021. The power of community science to quantify ecological interactions in cities. *Scientific Reports* 11:3069.
- Talavera, J.*, A. Carriere*, L. Swierk, **B.J. Putman**. 2021. Tail autotomy is associated with boldness in male but not female water anoles. *Behavioral Ecology and Sociobiology* 75:44.
- Putman, B.J.**, Z. Tippie*. 2020. Big city living: a global meta-analysis reveals positive impact of urbanization on body size in lizards. *Frontiers in Ecology and Evolution* 8:580745.
- Holding, M.#, **B.J. Putman**#, L. Kong*, J.E. Smith, R.W. Clark. 2020. Physiological stress integrates resistance to rattlesnake venom and the onset of risky foraging in California ground squirrels. *Toxins* 12:617. #denotes joint first authorship.
- Geffroy, B., B. Sadoul, **B.J. Putman**, O. Berger-Tal, L.Z. Garamszegi, A.P. Møller, D.T. Blumstein. 2020. Evolutionary dynamics in the Anthropocene: Life history and intensity of human contact shape antipredator responses. *PLoS Biology* 18:e3000818.
- Zellmer, A.J., E. Wood, T. Surasinghe, **B.J. Putman**, G.B. Pauly, S. Magle, J. Lewis, C. Kay, M. Fidino. 2020. What can we learn from wildlife sightings during the COVID-19 global shutdown? *Ecosphere*: 11:e03215.
- Putman, B.J.**, G.B. Pauly, D.T. Blumstein. 2020. Urban invaders are not bold risk-takers: a study of 3 invasive lizards in Southern California. *Current Zoology* 66:657-665.
- Fondren, A.*, L. Swierk, **B.J. Putman**. 2020. Clothing color mediates lizard responses to humans in a tropical forest. *Biotropica* 52:172-181.

- Putman, B.J.**, M. Gasca*, D.T. Blumstein, G.B. Pauly. 2019. Downsizing for downtown: Limb lengths, toe lengths, and scale counts decrease with urbanization in western fence lizards (*Sceloporus occidentalis*). *Urban Ecosystems* 22:1071-1081.
- Calderon-Chalco, K.A.* , **B.J. Putman**. 2019. The effect of paint marking on predation risk in Western Fence Lizards: A test using clay models. *Herpetological Conservation and Biology* 14:80-90.
- Putman, B.J.**, D.S.M. Samia, W.E. Cooper, D.T. Blumstein. 2019. Impact of human-induced changes on lizard behavior: insights from urbanization. In: *Behavior of Lizards: Evolutionary and Mechanistic Perspectives* (V.L. Bels and A.P. Russell, eds.). CRC Press: Boca Raton, FL.
- Putman, B.J.**, D.T. Blumstein. 2019. What is the effectiveness of using conspecific or heterospecific acoustic playbacks for the attraction of animals for conservation management? A systematic review protocol. *Environmental Evidence* 8:6.
- Berger-Tal, O., A.L. Greggor, B. Macura, C.A. Adams, A. Blumenthal, A. Bouskila, U. Candolin, C. Doran, E. Fernández-Juricic, K.M. Gotanda; C. Price; **B.J. Putman**, M. Segoli, L. Snijders, B.B. Wong, D.T. Blumstein. 2019. Systematic evidence synthesis as part of a larger process: reply to comments on Berger-Tal et al. 2018. *Behavioral Ecology* 30:14-15. <https://doi.org/10.1093/beheco/ary163>
- Berger-Tal, O., A.L. Greggor, B. Macura, C.A. Adams, A. Blumenthal, A. Bouskila, U. Candolin, C. Doran, E. Fernández-Juricic, K.M. Gotanda; C. Price; **B.J. Putman**, M. Segoli, L. Snijders, B.B. Wong, D.T. Blumstein. 2019. Systematic reviews and maps as tools for applying behavioral ecology to management and policy. *Behavioral Ecology* 30:1-8. <https://doi.org/10.1093/beheco/ary130>
- Putman, B.J.**, K.R. Azure*, L. Swierk. 2018. Dewlap size in male water anoles associates with consistent inter-individual variation in boldness. *Current Zoology* 65:189-195. <https://doi.org/10.1093/cz/zoy041>
- Ayon, R.E.* , **B.J. Putman**, R.W. Clark. 2017. Recent encounters with rattlesnakes enhance ground squirrel responsiveness to predator cues. *Behavioral Ecology and Sociobiology* 71:149.
- Putman, B.J.**, J.P. Drury, D.T. Blumstein, G.B. Pauly. 2017. Fear no colors? Observer clothing color influences lizard escape behavior. *PLoS ONE* 12(8):e0182146.
- Putman, B.J.**, R.W. Clark. 2017. Behavioral thermal tolerances of free-ranging rattlesnakes (*Crotalus oreganus*) during the summer foraging season. *Journal of Thermal Biology* 65:8-15.
- Clark, R.W., S.W. Dorr, M.D. Whitford*, G.A. Freymiller*, **B.J. Putman**. 2016. Activity cycles and foraging behaviors of free-ranging sidewinder rattlesnakes (*Crotalus cerastes*): the ontogeny of hunting in a precocial vertebrate. *Zoology* 119:196-206. <http://dx.doi.org/10.1016/j.zool.2016.02.005>
- Putman, B.J.**, M.A. Barbour, R.W. Clark. 2016. The foraging behavior of free-ranging rattlesnakes (*Crotalus oreganus*) in California ground squirrel (*Otospermophilus beecheyi*) colonies. *Herpetologica* 72:55-63.
- Meek, M.H., C. Wells, K.M. Tomalty, J. Ashander, E.M. Cole, D.A. Gille, **B.J. Putman**, J.P. Rose, M.S. Savoca, L. Yamane, J.M. Hull, D.L. Rogers, E.B. Rosenblum, J.F. Shogren, R.R. Swaisgood, B.

May. 2016. We should not be afraid to talk about fear of failure in conservation. *Biological Conservation* 194:218-219.

Meek, M.H., C. Wells, K.M. Tomalty, J. Ashander, E.M. Cole, D.A. Gille, **B.J. Putman**, J.P. Rose, M.S. Savoca, L. Yamane, J.M. Hull, D.L. Rogers, E.B. Rosenblum, J.F. Shogren, R.R. Swaisgood, B. May. 2015. Fear of failure in conservation: the problem and potential solutions to aid conservation of extremely small populations. *Biological Conservation* 184:209-217.

Putman, B.J., R.W. Clark, R.G. Coss. 2015. The ontogeny of antipredator behavior: age differences in California ground squirrels (*Otospermophilus beecheyi*) at multiple stages of rattlesnake encounters. *Behavioral Ecology and Sociobiology* 69:1447-1457.

Putman, B.J., R.W. Clark. 2015. The fear of unseen predators: ground squirrel tail flagging in the absence of snakes signals vigilance. *Behavioral Ecology* 26:185-193.

Putman, B.J., C. Lind, E. N. Taylor. 2013. Does size matter? Factors influencing the spatial ecology of northern Pacific rattlesnakes (*Crotalus oreganus oreganus*) in central California. *Copeia* 2013:485-492.

PEER-REVIEWED NOTES AND BOOK REVIEWS

* - denotes student author

Swierk, L. , A. Carriere*, M. Delfin*, A. Fondren*, D. Lopera*, **B.J. Putman**. 2019. *Anolis aquaticus* (= *Norops aquaticus*) (Water Anole). Egg size and oviposition sites. *Herpetological Review* 50:360-362.

Putman, B. J. 2018. Cane Toad Wars [book review]. *Copeia* 106:567-568.

Rice, S., **B.J. Putman**, H. Schraft, R.W. Clark. 2016. *Crotalus oreganus helleri* (Southern Pacific Rattlesnake). Loss of rattle style and matrix. *Herpetological Review* 47:679.

Putman, B.J., R.W. Clark. 2015. Habitat manipulation in hunting rattlesnakes (*Crotalus* spp.). *The Southwestern Naturalist* 60:374-377.

Putman, B.J., R.W. Clark. 2015. *Crotalus oreganus* (Northern Pacific Rattlesnake). Non-rattling tail display. *Herpetological Review* 46:269-270.

NEARLY PUBLISHED PUBLICATIONS

* - denotes student author

Putman, B.J., Heard, M.J., C.J. Thawley, E.L. Blash*, A. Chen*, L.M. Lyons*, I.A.H. Newton*, A.G. Overbye*, S.H. Riskin. Citizen science photographs reveal urbanization-driven shifts in microhabitat use and risk across multiple lizard species. *Global Change Biology Communications*: *in review*.

GRANTS AND AWARDS

CSUBIOTECH New Investigator Grant—\$15,000	2026
CNSM Faculty Small Grant Award, CSULB—\$4,975	2026
ORED Multidisciplinary Research Grant, CSULB — \$14,993	2026
CSUBIOTECH Faculty Travel Award — \$1,380	2025

Bolsa Chica Ecological Research Support Grant — \$3,000	2025
Joseph C. Mitchell Grant in Herpetology (Herpetologists League) — \$1,000	2025
STEM-NET Early Concept Grants for Exploratory Research (EAGER) — \$24,683	2025
RESCUE-Net Multi-Site Research Project (NSF RCN “subaward”) — approx. \$40,000	2024
Vital and Expanded Technologies Initiative Grant (CSUSB) — \$7,128	2024
Desert Studies Faculty Grant Writing Support Award — \$6,054	2024
CSUSB Undergraduate Summer Research Program — \$15,100	2023
CSUPERB Faculty-Graduate Student Research Collaboration Grant — \$9,902	2022
CSUSB Undergraduate Summer Research Program — \$11,496	2022
Raymond D. Semlitsch Research Award (Herpetologists League) — \$5,000	2021
CSUPERB COVID-19 Research Recovery Microgrant — \$1,500	2021
Faculty-Student Research Grant (CSUSB) — \$1,500	2021
Professors Across Borders Grant (CSUSB) — \$2,000	2020
Summer Research Fellowship (CSUSB) — \$3,000	2020
Community-based Research Mini Grant (CSUSB) — \$5,000	2019
UCLA Chancellor’s Award for Postdoctoral Research — \$7,500	2018
UCLA La Kretz Center/Stunt Ranch Reserve Research Grant — \$3,000	2017
NSF Postdoctoral Research Fellowship in Biology — \$138,000	2016
Harold and June Grant Memorial Scholarship (SDSU) — \$1,000	2014
James and Mary Crouch Memorial Scholarship (SDSU) — \$1,000	2014
Theodore Roosevelt Memorial Fund of the American Museum of Natural History — \$2,000	2014
Gordon Research Conference on Predator-Prey Interactions Travel Scholarship	2014
Harold and June Grant Memorial Scholarship (SDSU) — \$1,000	2013
Animal Behavior Society Student Research Grant — \$1,000	2013
Mildred E. Mathias Student Research Grant — \$2,950	2012
Judith Presch Desert Research Scholarship — \$300	2012
Santa Barbara Museum of Natural History Student Scholarship — \$500	2008

INVITED RESEARCH SEMINARS

CNSM Faculty Research Showcase; CSULB, CA	2026
San Bernardino Valley Audubon Society; San Bernardino, CA	2024
Nights with the Museum; Museum of Riverside; Riverside, CA	2023
STEM-Net Virtual Research Café; virtual	2021
Brown Bag Lunch Seminar; San Diego Natural History Museum; virtual	2021
University of Kansas SEEDS Chapter; virtual	2021
UC Riverside Seminar Series; Riverside, CA (virtual)	2021
CSU Los Angeles Biology Seminar Series; Los Angeles, CA	2020
CSU Fresno Biology Seminar Series; Fresno, CA	2020
Loma Linda University Biology Seminar Series; Loma Linda, CA	2020
CSU San Bernardino Biology Seminar Series; San Bernardino, CA	2019
Eaton Canyon Nature Center Brown Bag Lunch; Pasadena, CA	2019
CSU Dominguez Hills Biology Seminar Series; Carson, CA	2018
CSU Fullerton Biology Seminar Series; Fullerton, CA	2018
- <i>Special invited guest of undergraduate students in the Southern California Ecosystems Research Program (SCERP)</i>	
Ecology and Evolution of Invasives Seminar Course; CSU Northridge, CA	2018
Behavior, Ecology, and Evolution Research Club; CSU Northridge, CA	2018

Occidental College Biology Seminar Series; Eagle Rock, CA	2017
CSU Long Beach Biological Sciences Seminar Series; Long Beach, CA	2017
Research and Collections Seminar Series; Natural History Museum of LA County, CA	2017
Midwest Herpetological Symposium; Naperville, IL	2016
Loma Linda University Seminar Series; Loma Linda, CA	2015
SDSU Ecology Graduate Student Retreat; Santa Margarita Ecological Reserve, CA	2014
Northern California Herpetological Society Seminar; Sacramento, CA	2014
Yolo County Flood Control and Water Conservation District; Woodland, CA	2013
Jasper Ridge Preserve Community Retreat; Blue Oak Ranch Reserve, CA	2012
Boy Scout Troop #1618; Rancho Santa Margarita, CA	2011

PROFESSIONAL MEETING PRESENTATIONS

Putman, B.J. 2026. Lizards as a model system for understanding shifts in predator-prey interactions due to anthropogenic wildfires (Poster). Gordon Research Conference on Predator-Prey Interactions; Lucca, Italy

Putman, B.J., S. Ruck, E Gutierrez. 2025. Effects of wildfires on predation risk and antipredator responses of western fence lizards (Oral). HerpFest; CSU Northridge, CA

Putman, B.J., D.T. Blumstein, G.B. Pauly. 2023. Does fear of humans filter animals from urban areas? A case study of Southern California lizards (Oral). Joint Meeting of Ichthyologists and Herpetologists; Norfolk, VA

Putman, B.J. 2022. Using meta-analyses to understand phenotypic responses to urbanization in animals (Oral). *Invited Symposium*: Illuminating hot topics in experimental biology: A meta-analytic approach to understanding biological phenomenon. Society for Experimental Biology Annual Conference; virtual.

Putman, B.J. 2021. The power of community science for ecological research (Oral). *Invited Symposium*: Engaging communities in science research using bioblitzes. SACNAS Annual Meeting; virtual.

Putman, B.J., D.T. Blumstein, G.B. Pauly. 2021. Does fear of humans filter animals from urban areas? A case study of Southern California lizards. (Oral). *Invited Symposium*: From conflict to coexistence: the role of animal behavior in conservation and human-animal interactions. Animal Behavior Society Annual Meeting; virtual.

Putman, B.J. 2020. Color matters in herpetological research (Oral). HerpFest; Westmont College, Santa Barbara, CA.

Putman, B.J., R. Williams, J. Li, G.B. Pauly. 2020. The use of community science to study the ecology of herpetofauna in cities (Oral). World Congress of Herpetology; Dunedin, New Zealand.

Putman, B.J., R. Williams, J. Li, G.B. Pauly. 2019. Urban to rural gradients in parasitism and predation: An example using citizen science-generated photographs of the Southern Alligator Lizard. (Oral). Joint Meeting of Ichthyologists and Herpetologists; Snowbird, UT

Putman, B.J., D.T. Blumstein, G.B. Pauly. 2018. Anthropophobia and lizard responses to urbanization in Southern California. (Oral). Meeting of Southwestern Organismal Biologists; San Marcos, CA

Putman, B.J., D.T. Blumstein, G.B. Pauly. 2018. Anthropophobia and lizard responses to urbanization in Southern California. (Oral). Society for Integrative and Comparative Biologists Annual Meeting; San Francisco, CA

Putman, B.J., R.W. Clark. 2017. Factors influencing the foraging behavior of rattlesnakes. (Oral). Biology of Snakes Conference; Rodeo, NM

Putman, B.J., J.P. Drury, D.T. Blumstein, G.B. Pauly. 2017. Fear no colors? Observer clothing color influences lizard escape behavior. (Oral). *Invited Symposium* on Urban Herpetology; International Urban Wildlife Conference; San Diego, CA

Putman, B.J. 2016. Fear no colors? Lizards respond less fearfully to their sexually-selected signaling color. (Oral). Meeting of Southwestern Organismal Biologists; Fullerton, CA

Putman, B.J. and R.W. Clark. 2015. The fear of hidden predators: ground squirrels honestly signal vigilance toward undetected rattlesnakes (Oral). Joint Meeting of Ichthyologists and Herpetologists; Reno, NV

- Stoye Award for best presentation in Ecology and Ethology!

Putman, B.J. and R.W. Clark. 2015. The potential for new discoveries in snake ecology and behavior using fixed videography: a case study on the rattlesnake *Crotalus oreganus* (Poster). Joint Meeting of Ichthyologists and Herpetologists; Reno, NV

Putman, B.J. and R.W. Clark. 2014. The unseen predator is the most fearsome: ground squirrel tail flagging in the absence of snakes signals vigilance (Poster). Gordon Research Conference on Predator-Prey Interactions; Ventura, CA

Putman, B.J. and R.W. Clark. 2013. Testing the function of an antipredator display: ground squirrel tail flagging toward rattlesnakes (Oral). Animal Behavior Society Annual Meeting; Boulder, CO

Putman, B.J. and R.W. Clark. 2013. Sending signals: why do ground squirrels tail flag at rattlesnakes? (Oral). Student Research Symposium; San Diego State University, CA

Putman, B.J., C. Lind, E.N. Taylor. 2012. Spatial ecology of the Northern Pacific Rattlesnake: from long distance mate searching to fine-scale foraging movements (Oral). The World Congress of Herpetology; Vancouver, BC

Putman, B.J., C. Lind, E.N. Taylor. 2012. Does size matter? Testing the effects of body size and sex on the spatial ecology of Northern Pacific Rattlesnakes in California (Oral). Graduate Student Symposium in Ecology; UC Davis, CA

Putman, B.J., C. Lind, E.N. Taylor. 2009. Comparative home range sizes in a population of the Northern Pacific Rattlesnake (*Crotalus oreganus oreganus*) in central California (Poster). Joint Meeting of Ichthyologists and Herpetologists; Portland, OR

Service Activities

FOUNDER AND LEAD ORGANIZER

City Nature Challenge: Inland Empire	2019–2024
Joint Doctoral Program in Ecology Student Committee; SDSU	2014–2016
Reptile and Amphibian Blogging Network (RAmBIN)	2013–2015

SDSU Ecology Graduate Student Retreat; Santa Margarita Ecological Reserve, CA	2013, 2014
Student Grant Writing Group; SDSU	2012–2016

COLLEGE AND UNIVERSITY COMMITTEES

President's Commission on Sustainability	2025–present
- <i>Sustainability Fellows Sub-Committee</i>	
- <i>Faculty and Staff Awards Sub-Committee</i>	
Biology Department Scholarship Committee; CSULB	2026
Biology Department Grade Appeals Committee; CSULB	2025–2026
CNSM Spring Commencement Marshall; CSULB	2025
CNSM Dean's Scholarship Committee; CSULB	2025
Institutional Animal Care and Use Committee; CSUSB	2022–2024
Board member (alternate) of the Desert Studies Center Consortium	2021–2024
Organismal Plant Biologist search committee; CSUSB	2023
Office of Community Engagement Awards Committee; CSUSB	2023
College of Natural Sciences Outstanding Student Awards Committee; CSUSB	2023
STEM Biology Education Specialist search committee; CSUSB	2021–2022
Sustainability Committee; CSUSB	2020–2022
Evolutionary Biologist search committee; CSUSB	2019–2020

GRANT AND AWARD COMMITTEES

Johnson Award Committee; American Society of Ichthyology and Herpetology	2022–2025
External Grant Reviewer; Deutsche Forschungsgemeinschaft (DFG, German Research Foundation)	2025
Roger Conant Grants in Herpetology; Society for the Study of Amphibians & Reptiles	2024
Desert Studies Center Awards	2022
Animal Behavior Society Student Research Grants	2021
Graduate Women in Science Fellowship	2020
NSF Graduate Research Fellowship Program; Virtual Panel	2020
Undergraduate Research Fellows Program; UCLA	2017
Graduate Women in Science Fellowship	2017

SERVICE TO PROFESSIONAL SOCIETIES

Herpetologists' League Representative for the Childcare Committee for the Joint Meeting of Ichthyologists and Herpetologists (JMIH) Annual Meeting	2026
Executive Council; Herpetologists' League	2022–present
Board of Governors; American Society of Ichthyology and Herpetology (ASIH)	2020–present
Chair of the Johnson Award Committee; ASIH	2025
Panelist for the Pre-College Scholars Program; Society for the Study of Amphibians and Reptiles (SSAR)	2023
Chair of the student poster award in Herpetology at the Joint Meeting of Ichthyologists and Herpetologists; ASIH	2023
Diversity, Equity, and Inclusion Committee; Herpetologists' League	2018–2022

Conservation Committee Board Member; Animal Behavior Society	2019–2022
Conservation Behavior Working Group; Society of Conservation Biology	2018–2020

MEETING AND SYMPOSIUM ORGANIZATION

Host and Co-organizer; Southwest Organismal Biologists (SWOB) Meeting; CSUSB	2022
Co-Organizer; “Herps in the City” Symposium; World Congress of Herpetology; Dunedin, New Zealand	2020
Co-Organizer; “Citizen Science in Herpetology” Symposium; Joint Meeting of Ichthyologists and Herpetologists; Snowbird, UT	2019
Host and Co-Organizer; Southern California Animal Behavior (SoCAB) Meeting; UCLA	2018
Host and Co-Organizer; Conservation of Extremely Small Populations Symposium; UC Davis	2012

PRESENTATION JUDGING

Student Presentation Competition; HerpFest Annual Meeting, Borrego Springs, CA	2026
CSULB Student Research Competition	2026
Student Poster Presentations; Southern California Academy of Sciences Meeting	2024
Student Research Competition; CSUSB	2024
Student Poster Presentations; Southwestern Organization of Organismal Biologists (SWOB) Annual Meeting	2023
Student Poster Presentations; Joint Meeting of Ichthyologists and Herpetologists	2023
Meeting of the Minds Student Research Symposium; CSUSB	2023
Student Research Competition; CSUSB	2020
Julian Charter Middle School Science Fair; San Diego, CA	2012–2013
Undergraduate Research Symposium; SDSU	2012
Greater San Diego Science and Engineering Fair; San Diego, CA	2011

MANUSCRIPT REVIEWS

Functional Ecology	2026
Journal of Animal Ecology, Behavioral Ecology, Biology Letters, Functional Ecology	2025
Journal of Animal Ecology, Behavioral Ecology, Herpetological Review	2024
Frontiers in Ecology and Evolution, Herpetological Review	2023
Biology Letters, Diversity	2022
Urban Ecosystems, Oecologia, Journal of Herpetology	2021
California Fish and Wildlife Journal, Oecologia, Biological Journal of the Linnean Society	2020
Behavioral Ecology and Sociobiology, Animals, Journal of Threatened Taxa	2019
Conservation Letters, Current Zoology, Behavioral Ecology, Behavioral Ecology and Sociobiology, Herpetology Notes	2018
Animal Behaviour, PLOS ONE, Behaviour, Ethology	2017
BMC Ecology, Behavioral Ecology and Sociobiology, Integrative and Comparative Biology	2016

EXTERNAL RESEARCH MENTORSHIP

Postdoctoral Mentor for Dave Daversa, UCLA	2023–present
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PhD Committee for Chelsea Martin, Loma Linda University 2020–present
 Invited Master’s Thesis Review; Macquarie University 2023

COMMUNITY OUTREACH

Invited Panelist; Fueling Collaboration Virtual Fire Science Discussion Series 2025
 Invited Panelist; Global Sustainable Insurance Summit, Long Beach CA 2025
 Invited Speaker; The Biology Club; CSUSB 2023
 Training and Working with Community Scientists at Various Events; NHMLA 2017–2019
 Invited Speaker; Women in Science and Engineering Dinner; CSUSB 2019
 Urban Nature Research Center Booth at NatureFest; NHMLA 2017, 2018
 Research Outreach with Students from MUSE High School; Calabasas, CA ` 2017
 Snake Expert for #SnakeTownHall Twitter Q&A Event 2016
 Graduate Group in Ecology Picnic Day Booth; UC Davis 2012
 Predator-Prey Activity Leader for K.i.D.S. (Kids into Discovering Science) 2012
 Representative at Public Events for Hi Mountain Condor Lookout; SLO County 2009

OTHER SERVICE

Invited Discussion Leader for the “Science-Informed Management Session”; Gordon 2026
 Research Conference on Predator-Prey Interactions, Lucca, Italy
 Consultant for Public Snake Sign; Claremont Hills Wilderness Park 2024
 Herpetologist for the Wind Wolves Preserve Expert BioBlitz (TNC Event) 2018
 Herpetologist for the Amargosa River Expert BioBlitz (TNC Event) 2017
 Consultant for i-Inquire (a high school case-based learning program) 2015
 Invited Panelist; Applying to Graduate School; SDSU 2014
 Organizer; Faculty Panel on Grant Writing and Reviewing; SDSU 2012, 2013
 Consultant for the Science Hip Hop Project; Mar Vista High School; Imperial Beach, CA 2013
 Organizer; Ecology Department Meet-and-Greet; SDSU 2012

SCIENCE COMMUNICATION VIA NEWS/MEDIA OUTLETS

Video Interview with the Long Beach Current on Urban Lizard Research 2025
 Interview with the Long Beach Current on bringing reptile research to LB 2025
 Interview with the LA Times on Western Fence Lizards! 2024
 Interview for media piece on the influence of clothing color on animal behavior 2024
 Interview with National Wildlife Federation Magazine (re: Putman and Clark 2015, 2024
 The Southwestern Naturalist)
 Scientist Spotlight in *Ichthyology and Herpetology* 2023
 Instagram Live Coyote Research Talks (Office of Student Research at CSUSB) 2021
 Interview with National Geographic (re: Forsthofer et al. 2021, Current Biology) 2021
 Interview with the San Luis Obispo Tribune (re: Crowell et al. 2021, Ecology and Evolution) 2021
 Interview with Politico (re: use of iNaturalist in research) 2021
 Interview with KVCR (re: Putman et al. 2021, Sci Reports) 2021
 Interview with Atlas Obscura (re: Putman et al. 2021, Sci Reports) 2021
 Natural History Institute Greene View blog (re: Putman et al. 2021, Sci Reports) 2021

Los Angeles Post (re: Putman et al. 2021, Sci Reports)	2021
Interview with CapRadio (re: City Nature Challenge)	2020
Highlight in WIRED magazine (re: Putman et al. 2019, Urban Ecosystems)	2019
Life in the City blog (re: Putman et al. 2019, Urban Ecosystems)	2019
National Geographic (re: kangaroo rat evasive leaps)	2019
Herpetologist Highlight on the Herpetologists' League website	2018
ScienceVideos.org interview (re: Putman et al. 2017, PLOS ONE)	2017
Wildlife Society News (re: Putman et al. 2017, PLOS ONE)	2017
KPCC News (re: Putman et al. 2017, PLOS ONE)	2017
AAAS Science Update Podcast (re: Putman et al. 2017, PLOS ONE)	2017
Scientific American's "60-Second Science" Podcast (re: Putman et al. 2017, PLOS ONE)	2017
Blog post in Nature in L.A. Blog – www.nhm.org/nature/blog	2017
Personal Research Blog – www.strikerattleroll.blogspot.com	2011–2016
Cool Green Science blog by The Nature Conservancy (re: citizen science)	2016
Living Alongside Wildlife blog (re: rattlesnake behavior and foraging)	2016
New Scientist (re: Putman and Clark 2015, The Southwestern Naturalist)	2016
National Geographic (re: Putman and Clark 2015, The Southwestern Naturalist)	2016
Herp Nation Radio Network (re: squirrel-snake interactions)	2015
Venom Hunters, Authentic Entertainment, Los Angeles	2015
World's Sneakiest Animals series on BBC, United Kingdom	2015
Natural Born Hustlers series on PBS Nature, USA	2015
Talk to the Animals series on BBC, United Kingdom	2013
National Geographic (re: Putman and Clark 2015, Behavioral Ecology)	2013
Documentary television series on NHK, Japan	2012
Sacramento Channel 10 News (re: biorobotics in ecological research)	2012
San Jose Mercury Newspaper (re: biorobotics in ecological research)	2012
Blog post on the robotics website Hizook.com	2012