

# Breanna J. Putman

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## Current positions

**Assistant Professor** Department of Biology; California State University, San Bernardino (CSUSB)

**Research Associate** Department of Herpetology; Natural History Museum of Los Angeles County

## Previous positions

**Field Research Mentor** [NSF LSAMP REU for Underrepresented Minority Students Summer Program](#)

[2016, 2018-2019] (Formally the Native American and Pacific Islander Research Experience Program); Organization for Tropical Studies, Costa Rica

**Lecturer**

[2018-2019] California State University, Long Beach (CSULB)

**NSF Postdoctoral Fellow**

[2016-2019] University of California, Los Angeles (UCLA); Blumstein Lab  
Natural History Museum of Los Angeles County (NHMLA); Department of Herpetology and Urban Nature Research Center

## Education

**Ph.D. in Ecology**

[2016] Joint Doctoral Program in Ecology; San Diego State University (SDSU) & University of California, Davis (UCD)

**Advisors:** Dr. Rulon Clark (SDSU); Dr. Richard Coss (UCD)

**B.S. in Biology**

**Minor in Spanish**

[2010] California Polytechnic State University San Luis Obispo (SLO)

**Advisor:** Dr. Emily Taylor

## Peer-reviewed publications

\* – denotes student

**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.

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.

**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.

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.

**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 & book reviews

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.

### Manuscripts in review/revision

Mychajliw, A.M.#, E.R. Ellwood#, P. Alagona, S. Anderson, M. Balisi, E. Biber, J. Brown, J. George, P. Gonzalez, A. Hendy, L.M. Higgins, A. Leger, G.P. Pauly, **B.J. Putman,** M. Ordeñana, J.M. Randall, S. Riley, A. Schultz, M.A. Stegner, T. Wake, E.L. Lindsey. Paleobiology in novel ecosystems: lessons for conservation from beneath the pavement. *Proceedings of the National Academy of Sciences: In review.* # = joint first authors.

### Manuscripts in preparation

Urquidi, E. \*, **B.J. Putman.** Quantifying Southern Pacific Rattlesnake hunting behavior through citizen science.

### Grants and awards

- [2021] Faculty-Student Research Grant (CSUSB) — \$1,500
- [2020] Professors Across Borders Grant (CSUSB) — \$2,000
- [2020] Summer Research Fellowship (CSUSB) — \$3,000
- [2019] Community-based Research Mini Grant (CSUSB) — \$5,000
- [2018] UCLA Chancellor's Award for Postdoctoral Research — \$7,500
- [2016-2018] Postdoctoral Research Fellowship in Biology; National Science Foundation (DBI-1611562) — \$138,000
- [2017] UCLA La Kretz Center/Stunt Ranch Reserve Research Grant — \$3,000
- [2014] Harold and June Grant Memorial Scholarship — \$1,000
- [2014] James and Mary Crouch Memorial Scholarship — \$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
- [2013] Harold and June Grant Memorial Scholarship — \$1,000
- [2013] Animal Behavior Society Student Research Grant — \$1,000
- [2012] Mildred E. Mathias Student Research Grant — \$2,950
- [2012] Judith Presch Desert Research Scholarship — \$300
- [2008] Santa Barbara Museum of Natural History Student Scholarship — \$500

### **Invited seminars**

- [2021] University of Kansas SEEDS Chapter; virtual (tentative)
- [2021] UC Riverside Seminar Series; Riverside, CA (tentative)
- [2020] San Bernardino Valley Audubon General Meeting; San Bernardino County Museum, Redlands, CA (cancelled due to COVID-19)
- [2020] 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
- [2019] CSU San Bernardino Biology Seminar Series; San Bernardino, CA
- [2019] Eaton Canyon Nature Center Brown Bag Lunch; Pasadena, CA
- [2018] CSU Dominguez Hills Biology Seminar Series; Carson, CA
- [2018] CSU Fullerton Biology Seminar Series; Fullerton, CA
  - Special invited guest of undergraduate students in the Southern California Ecosystems Research Program (SCERP)
- [2018] Ecology and Evolution of Invasives Seminar Course; CSU Northridge, CA
- [2018] Behavior, Ecology, and Evolution Research Club; CSU Northridge, CA
- [2017] 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 Los Angeles County, CA
- [2016] Midwest Herpetological Symposium; Naperville, IL
- [2015] Loma Linda University Seminar Series; Loma Linda, CA
- [2014] SDSU Ecology Graduate Student Retreat; Santa Margarita Ecological Reserve, CA
- [2014] Northern California Herpetological Society Seminar; Sacramento, CA
- [2013] Yolo County Flood Control and Water Conservation District; Woodland, CA
- [2012] Jasper Ridge Preserve Community Retreat; Blue Oak Ranch Reserve, CA
- [2011] Boy Scout Troop #1618; Rancho Santa Margarita, CA

### **Presentations at meetings**

**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

## Teaching experience

### Instructor of Record

- [Spring 2021] Herpetology (BIOL 3440); CSUSB
- [Spring and Fall 2020] Ecology (BIOL 450); CSUSB
- [Winter 2020] Special Topics Course: Biological Data in R (BIOL 490D); CSUSB
- [2019-2020] Biology Seminar (BIOL 591); CSUSB
- [Spring 2019] Herpetology (BIOL 421); CSULB
- [2018-2019] Vertebrate Zoology (BIOL 324); CSULB
- [2012-2016] Student Grant Writing Group (student-organized seminar); SDSU
- [2014] Experimental Ecology (BIOL 354L); SDSU
- [2010] General Biology Lab (BIOL 100L); SDSU

### Lab Instructor (TA)

- [2016] Marine Ecology (BIOL 517); San Diego State University
- [2012-2013] Ecology and Environment (BIOL 354); San Diego State University
- [2009] Ornithology (ZOO 323); Cal Poly San Luis Obispo

### Guest Lecturer

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

### Misc. Experience

- [2016-2019] REU Instructor; Organization for Tropical Studies; Costa Rica
- [2008-2010] Flameworking Instructor; Craft Center; Cal Poly San Luis Obispo

## Professional development in teaching/mentoring

- [2021] Faculty Learning Community for Culturally-Responsive Teaching; CSUSB
- [2020] EREN-NEON Flexible Learning Project Faculty Mentoring Network
- [2020] Best Practices in Alternate Teaching Modalities; CSUSB
- [2019-2020] Faculty Learning Community for Large Lectures; CSUSB
- [2018] How to be an Ally Training; UCLA
- [2017] 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
- [2012] Diversity in the Classroom Training; Graduate Teaching Community; UCD

## Mentoring experience

### Organized Programs

- [Summer 2019] NSF LSAMP REU for Underrepresented Minority Students Summer Program; Organization for Tropical Studies, Costa Rica

#### Student Projects:

**Janelle Talavera** (CSU Northridge)

Personality and home range size of *Anolis aquaticus*

**Michael-Luca Natt** (SUNY Binghamton University)

How does sex influence escape decisions in *Anolis aquaticus*?

- [Summer 2018] NSF LSAMP REU for Underrepresented Minority Students Summer Program; Organization for Tropical Studies, Costa Rica

#### Student Projects:

**Andrea Fondren** (Iowa State University)

The impact of researcher clothing color on the behavior of *Anolis aquaticus*

**Austin Carriere** (University of Oklahoma)

Intersexual differences in boldness and activity in water anoles, *Anolis aquaticus*

- [Summer 2016] The Native American and Pacific Islander Research Experience (NAPIRE) Program; Organization for Tropical Studies, Costa Rica

#### Student Projects:

**Kylee Azure** (Aaniiih Nakoda College)

The bigger the bolder: Associations among morphology and personality in water anoles (*Anolis aquaticus*)

**Sattie Whitefoot** (Salish Kootenai College)

Habitat effects on predation risk in the water anole, *Anolis aquaticus*



## Independent Undergraduate

### Mentees

**Sarah Vasquez** (CSUSB)

Effects of urbanization on the skin microbiome of *Sceloporus occidentalis*

**Elmer Gutierrez and Elie Ashkar** (CSUSB)

Use of coverboards to estimate herpetofauna populations across a gradient of human impacts (urbanization and fragmentation)

**Emily Urquidi** (CSUSB)

Quantifying southern Pacific rattlesnake hunting behavior through citizen science

**Nina Fresco** (CSUSB)

Signaling in an urbanized world: a study on ventral patch size and symmetry in the western fence lizard (*Sceloporus occidentalis*)

**Zack Tippie** (CSUSB)

What makes an urban lizard? A global meta-analysis

**Keitty Calderon-Chalco** (Life Science Dean's Award Scholar, UCLA)

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)

The effect of urbanization on tail autotomy and ectoparasite load in the southern alligator lizard, *Elgaria multicarinata*

**Maria Gasca** (CARE Fellows Scholar, UCLA)

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)

Do snakes stress out squirrels?

**Jennifer Schefski** (SDSU)

The importance of olfaction in snake detection and discrimination by California ground squirrels (*Otospermophilus beecheyi*)

**Rey Ayon** (NIH IMSD Scholar, SDSU)

Rattlesnake encounters enhance vigilance behavior of California ground squirrels (*Otospermophilus beecheyi*)

### Presentations by students at meetings

\* – denotes undergraduate

Urquidi, E.\*, **B.J. Putman**. 2020. Quantifying southern Pacific rattlesnake hunting behavior through citizen science (Oral). Student Research Competition; California State University, San Bernardino, CA

Urquidi, E.\*, **B.J. Putman**. 2020. Quantifying southern Pacific rattlesnake hunting behavior through citizen science (Oral). Biology Student Research

Colloquium; California State University, San Bernardino, CA

Urquidi, E.\* , **B.J. Putman**. 2020. Quantifying southern Pacific rattlesnake hunting behavior through citizen science (Oral). Animal Behavior Society 2020 Virtual Meeting

Fresco, N.\* , **B.J. Putman**. 2020. Signaling in an urbanized world: a study on ventral patch size and symmetry in the western fence lizard (Oral). Animal Behavior Society 2020 Virtual Meeting

Talavera, J.\* , L. Swierk, **B.J. Putman**. 2019. Boldness increases predation risk in water anoles (Poster). CSUNposium; California State University, Northridge, CA

Carriere, A.\* , **B.J. Putman**. 2019. Analyzing behavioral lateralization in the genus *Crotalus*. McNair Heartland Research Conference; Kansas City, MO

Talavera, J.\* , L. Swierk, **B.J. Putman**. 2019. Boldness increases predation risk in water anoles (Poster). BUILD PODER Summer Research Symposium; California State University, Northridge, CA

Lopera, D.\* , **B.J. Putman**, L. Swierk. 2019. Thermal tolerance of *Anolis aquaticus* in sites with different land use histories (Poster). Albert Tester Memorial Symposium; University of Hawaii; Manoa, HI

Fondren, A.\* , L. Swierk, **B.J. Putman**. 2018. Impact of researcher clothing color on the behavior of *Anolis aquaticus* (Poster). Society for Advancing Chicanos & Native Americans in Science Conference; San Antonio, TX

Carriere, A.\* , L. Swierk, **B.J. Putman**. 2018. Comparing intersexual differences in boldness and activity in *Anolis aquaticus* (Poster). Society for Advancing Chicanos & Native Americans in Science Conference; San Antonio, TX  
- Winner of a Student Travel Scholarship for the meeting!

Lopera, D.\* , **B. Putman**, L. Swierk. 2018. Thermal tolerance of *Anolis aquaticus* in sites with different land use histories (Poster). Society for Advancing Chicanos & Native Americans in Science Conference; San Antonio, TX

Delfin, M.M.M.\* , **B. Putman**, L. Swierk. 2018. Microhabitat preferences of the Water Anole (*Anolis aquaticus*) at sites with different land use histories (Poster). Society for Advancing Chicanos & Native Americans in Science Conference; San Antonio, TX

Calderon-Chalco K.\* , **B.J. Putman**. 2018. Use of clay lizard models to evaluate the effect of color marking on predation risk in Western Fence Lizards (*Sceloporus occidentalis*) (Oral). SoCal Animal Behavior Meeting; UCLA

Calderon-Chalco K.\* , **B.J. Putman**. 2017. Use of clay lizard models to evaluate the effect of color marking on predation risk in Western Fence Lizards (*Sceloporus occidentalis*) (Poster). Summer Programs for Undergraduate

Research Poster Session; UCLA

Gasca, M.\*, **B.J. Putman**, D.T. Blumstein, G.B. Pauly. 2017. Morphological changes of Western Fence Lizards (*Sceloporus occidentalis*) in rural to urban transitions in Southern California (Poster). Biology Student Research Symposium; UCLA

Gasca, M.\*, **B.J. Putman**, D.T. Blumstein, G.B. Pauly. 2017. Morphological changes of Western Fence Lizards (*Sceloporus occidentalis*) in rural to urban transitions in Southern California (Oral). HerpFest; UC Riverside

Gasca, M.\*, **B.J. Putman**, D.T. Blumstein, G.B. Pauly. 2017. Morphological changes of Western Fence Lizards (*Sceloporus occidentalis*) in rural to urban transitions in Southern California (Poster). California Alliance for Minority Participation (CAMP) Symposium; UC Irvine.

- Winner of an Honorable Mention Award!

Azure, K.\* and **B.J. Putman**. 2016. The bigger the bolder: Semiaquatic anoles (*Norops aquaticus*) with larger relative head sizes are bolder, but not more explorative (Poster). Society for Advancing Chicanos & Native Americans in Science Conference; Long Beach, CA

- Winner of a Student Travel Scholarship for the meeting!

Whitefoot, S.\* and **B.J. Putman**. 2016. Habitat effects on predation risk in the semiaquatic anole, *Norops aquaticus* (Poster). Society for Advancing Chicanos & Native Americans in Science Conference; Long Beach, CA

- Winner of the Undergraduate Presentation Award!

Surber, L.L.\*, M. Vo\*, L. Kong\*, T.T. Hammond, E.A. Lacey, **B.J. Putman**, R.W. Clark, J.E. Smith. 2015. Fecal glucocorticoid metabolites in California ground squirrels: validation and inter-individual differences (Poster). Animal Behavior Society Annual Meeting; Anchorage, AK

Surber, L.L.\*, M. Vo\*, L. Kong\*, T.T. Hammond, E.A. Lacey, **B.J. Putman**, R.W. Clark, J.E. Smith. 2015. Fecal glucocorticoid metabolites in free-living California ground squirrels: Experimental validation and inter-individual differences in the stress response (Poster). The Western Section of the Wildlife Society Meeting; Santa Rosa, CA

Schefski, J\*, **B.J. Putman**, R.W. Clark. 2014. Olfactory discrimination between two snake species by California ground squirrels (Oral). Student Research Symposium; San Diego State University

Newcomb, K.L.\*, M. Vo\*, L. Kong\*, **B.J. Putman**, R.W. Clark, J.E. Smith. 2013. Non-lethal effects of predation on the California ground squirrel (Poster). Barrett Biology Research Symposium; Mills College

Ayon, R.E.\* , **B.J. Putman**, R.W. Clark. 2013. Rattlesnake encounters alter vigilance behavior of California ground squirrels (*Otospermophilus beecheyi*) (Oral). Undergraduate Research Symposium; San Diego State University

Ayon, R.E.\* , **B.J. Putman**, R.W. Clark. 2013. Rattlesnake encounters alter vigilance behavior of California ground squirrels (*Otospermophilus beecheyi*) (Oral). Animal Behavior Society Annual Meeting; Boulder, CO

Ayon, R.E.\* , **B.J. Putman**, R.W. Clark. 2013. Rattlesnake encounters alter vigilance behavior of California ground squirrels (*Otospermophilus beecheyi*) (Oral). Student Research Symposium; San Diego State University

Ayon, R.E.\* , **B.J. Putman**, R.W. Clark. 2012. Rattlesnake encounters alter vigilance behavior of California ground squirrels (*Otospermophilus beecheyi*) (Poster). Society for Advancing Chicanos & Native Americans in Science Conference; Seattle, WA

## Service to the academic community

### Founder/Lead Organizer

- [2019-present] City Nature Challenge: Inland Empire
- [2014-2016] Joint Doctoral Program in Ecology Student Committee; SDSU
- [2012-2016] Student Grant Writing Group; SDSU

### Manuscript Reviewer

- [2021] Urban Ecosystems
- [2020] California Fish and Wildlife Journal
- [2020] Oecologia
- [2020] Biological Journal of the Linnean Society
- [2019] Behavioral Ecology and Sociobiology
- [2019] Animals
- [2019] Journal of Threatened Taxa
- [2018] Conservation Letters
- [2018] Current Zoology
- [2018] Behavioral Ecology
- [2018] Behavioral Ecology and Sociobiology
- [2018] Herpetology Notes
- [2017] Animal Behaviour
- [2017] PLOS ONE
- [2017] Behaviour
- [2017] Ethology
- [2016] BMC Ecology
- [2016] Behavioral Ecology and Sociobiology

[2016] Integrative and Comparative Biology

### Reviewer of Student Work

- [2021] Animal Behavior Society Student Research Grants
- [2020] Graduate Women in Science Fellowship
- [2020] Student Research Competition; CSUSB
- [2020] NSF Graduate Research Fellowship Program; Virtual Panel
- [2017] Undergraduate Research Fellows Program; UCLA
- [2017] Graduate Women in Science Fellowship
- [2012, 2013] Julian Charter Middle School Science Fair; San Diego, CA
- [2012] Undergraduate Research Symposium; SDSU
- [2011] Greater San Diego Science and Engineering Fair; San Diego, CA

### Misc. Service

- [2020-2022] Member of the CSUSB Sustainability Committee; CSUSB
- [2020-2024] Member of the Board of Governors for the American Society of Ichthyology and Herpetology (ASIH)
- [2019-2022] Board member of the Animal Behavior Society Conservation Committee
- [2018-present] Member of the Diversity, Equity, and Inclusion Committee for Herpetologists' League
- [2018-2020] Conservation Behavior Working Group; Society of Conservation Biology
- [2020] Guest scientist for Herpetology class; Sacramento State University
- [2020] Meet the Professors event; CSUSB
- [2019-2020] Evolutionary Biologist search committee; CSUSB
- [2019-2020] Co-Organizer of Herps in the City Symposium for the World Congress of Herpetology; Dunedin, New Zealand
- [2019] Co-Organizer of Citizen Science in Herpetology Symposium for the Joint Meeting of Ichthyologists and Herpetologists; Snowbird, UT
- [2018] Herpetologist for the Wind Wolves Preserve Expert BioBlitz
- [2017-2018] Co-Organizer of Southern California Animal Behavior (SoCAB) Meeting; UCLA
- [2017] Herpetologist for the Amargosa River Expert BioBlitz
- [2014] Panel for Undergraduates on Graduate School Applications; SDSU
- [2012, 2013] Organizer of Faculty Panel on Grant Writing and Reviewing; SDSU
- [2012] Organizer of Ecology Department Meet-and-Greet; SDSU
- [2011- 2012] Co-Organizer of Conservation of Extremely Small Populations Symposium; UCD

### Outreach to the public

- [2020] Interview with Ph.D. student in the College of Journalism and Communications at the University of Florida on community engagement
- [2017-2019] Training and Working with Community Scientists at Various Events; NHMLA
- [2019] Guest of honor at the Women in Science and Engineering dinner; CSUSB
- [2018] Interview for *Herpetologist Highlights*; Herpetologists' League

- [2017, 2018] Urban Nature Research Center Booth at NatureFest; NHMLA
- [2017] Research Outreach with Students from MUSE High School; Calabasas, CA
- [2016] Snake Expert for #SnakeTownHall Twitter Q&A Event
- [2015] Contributing Scientist for i-Inquire (a high school case-based learning program)
- [2013-2015] Co-founder and Contributor for the Reptile and Amphibian Blogging Network (RAmBIN) – [www.herpetologyblogs.wordpress.com](http://www.herpetologyblogs.wordpress.com)
- [2014] Interview with student at Easterbrook Discovery K-8 School; San Jose, CA
- [2013] Science Hip Hop Project at Mar Vista High School; Imperial Beach, CA
- [2012] Graduate Group in Ecology Picnic Day Booth; UCD
- [2012] Predator-Prey Activity Leader for K.i.D.S. (Kids into Discovering Science)
- [2009] Representative at Public Events for Hi Mountain Condor Lookout; SLO County

### **Science communication**

- [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)
- [2020] Interview with CapRadio (re: City Nature Challenge)
- [2019] Highlight in WIRED magazine (re: Putman et al. 2019, Urban Ecosyst)
- [2019] Life in the City blog (re: Putman et al. 2019, Urban Ecosyst)
- [2019] National Geographic (re: kangaroo rat evasive leaps)
- [2017] 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](http://www.nhm.org/nature/blog)
- [2011-2016] Personal Research Blog – [www.strikerattleroll.blogspot.com](http://www.strikerattleroll.blogspot.com)
- [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)
- [2015] 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
- [2013] *Talk to the Animals* series on BBC, United Kingdom
- [2013] National Geographic (re: Putman and Clark 2015, Behavioral Ecology)
- [2012] 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