

Emily N. Taylor, PhD

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EDUCATION

| | | |
|----------------------|------------------------------------|------|
| PhD (Biology) | Arizona State University | 2005 |
| BA (English) | University of California, Berkeley | 1998 |

PROFESSIONAL EXPERIENCE

Professor, Cal Poly Biological Sciences (2016-23, 25-), **Associate Professor**, Cal Poly Biological Sciences (2011-16), **Assistant Professor**, Cal Poly Biological Sciences (2005-11)

Interim Associate Dean, Cal Poly College of Science and Mathematics (2023-24)

Founder and Owner, Central Coast Snake Services (2019-)

Co-author, *Biological Sciences* introductory biology textbook, 5th – 8th editions (2010-)

Adjunct Professor, Phoenix College (2004)

HONORS AND AWARDS

Robert K. Johnson Award for Excellence in Service, American Society of Ichthyologists and Herpetologists (2023)

Margaret Stewart Award for Excellence in Ichthyology or Herpetology, American Society of Ichthyologists and Herpetologists (2020)

Meritorious Teaching Award in Herpetology, American Society of Ichthyologists and Herpetologists, Herpetologists League, Society for the Study of Amphibians and Reptiles (2016)

Distinguished Teaching Award, Cal Poly (2012)

Distinguished Educator Award, California Faculty Association (2010)

Professor of the Year Award, Cal Poly Delta Delta Delta and Chi Omega (2008)

GRANTS AND CONTRACTS (external)

US Department of the Interior, United States Geological Survey, co-PI with Tim Bean and Lauren Chan: \$38K (2025)

US Department of Agriculture: \$20K (2024)

US Department of the Interior, Bureau of Land Management, co-PI with Tim Bean: \$45K (2019), \$250K (2022)

US Department of the Interior, Office of Insular Affairs: \$188K (2019)

Bridges to the Baccalaureate Grant, National Institutes of Health: \$950K (2008), \$996K (2014)

United States Air Force: \$10K (2012), \$9K (2013)

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GRANTS AND CONTRACTS (internal)

Cal Poly Baker-Koob Endowment Grant: \$5K (2024)

Center for Expressive Technologies Seed Grant, Cal Poly: \$3.8K (2022)

Research, Scholarly, and Creative Activity Grant, Cal Poly: \$11K (2016), \$8.5K (2021)

Honors Program Research Grant, Cal Poly: \$4K each (2007, 2008)

State Faculty Support Grant, Cal Poly: \$5K each (2006, 2008)

PUBLICATIONS (available for download at perl.calpoly.edu)

1. Taylor, E. N., C. Aplin. In press. Notes on injuries, healing, and mortality observed in wild snakes using live-streaming camera technology. *Herpetological Conservation and Biology*.
2. Heptinstall, T. C., R. Mendelow, D. Stroud, S. J. Weaver, S. Ahlich, T. Patharkar, A. Pohlo, **E. N. Taylor**, K. M. Brock. In press. Lizards exhibit increased body size and water loss in urban environments. *Functional Ecology*.
3. Bedard, R., M. Rottenborn, **E. N. Taylor**. In press. Snake relocation policies and practices within the continental United States. *Human Wildlife Interactions*.
4. Kong, B. R., E. Schwager, A. A. Avrit, O. M. Bachhuber, L. Griffin, **E. N. Taylor**. 2026. Extreme starvation impacts organ size and water content but not bone integrity in rattlesnakes. *Herpetologica*.
5. Bachhuber, O. M., M. C. Roberts, R. M. Singer, D. R. Brewster, R. A. Brewster, K. K. Dunham, S. M. Boback, **E. N. Taylor**. 2025. Using livestreaming technology to connect the public with secretive and maligned animals. *Frontiers in Amphibian and Reptile Science* 3:1599382.
6. Bedard, R. E., S. J. Weaver, H. A. Moniz, S. M. Boback, E. N. Taylor. 2025. Flexibility of cutaneous evaporative water loss in response to hydration in pregnant Prairie Rattlesnakes (*Crotalus viridis*) and their neonates. *Journal of Experimental Biology* 228: JEB247964.
7. McIntyre, M. G., M. van Mierlo, M. R. Parker, S. M. Goetz, **E. N. Taylor**, S. M. Boback. 2024. Rain-harvesting behavior in free-ranging prairie rattlesnakes (*Crotalus viridis*). *Current Zoology*: zoae069.
8. Moniz, H. A., J. H. Buck, H. L. Crowell, S. M. Goetz, T. D. Ruiz, **E. N. Taylor**, and S. M. Boback. 2024. High thermal quality rookeries facilitate high thermoregulatory accuracy in pregnant female rattlesnakes. *Journal of Thermal Biology* 124:103948.
9. Buchmiller, N. E., S. J. Weaver, R. E. Bedard, **E. N. Taylor**, H. A. Moniz. 2024. Storage time and temperature affect plasma osmolality values in field-collected blood samples. *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology* 295:111665.
10. Weaver, S. J., I. J. Axsom, L. Peria, T. McIntyre, J. Chung, R. S. Telemeco, M. F. Westphal, **E. N. Taylor**. 2024. Hydric physiology and ecology of a federally endangered desert lizard. *Conservation Physiology* 12: coae019.
11. Davis, C.G., S. J. Weaver, E. N. Taylor. 2024. Cutaneous evaporative water loss in lizards changes immediately with temperature. *Ecological and Evolutionary Physiology* 97:118-128.
12. Allison, E., **E. N. Taylor**, Z. Graham, M. Amarello, J. Smith, Z. Loughman. 2024. Effects of empathetic and utilitarian messaging on human perception of a venomous snake. *PLoS ONE* 19: e0298737.
13. Weaver, S. J., T. McIntyre, T. van Rossum, R. S. Telemeco, **E. N. Taylor**. 2023. Differing acclimation responses for hydration and evaporative water loss of lizards in response to temperature and humidity. *Journal of Experimental Biology* 226, jeb246459.

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14. Claunch, N., C. Lind, D. I. Lutterschmidt, I. T. Moore, L. Neuman-Lee, Z. Stahlschmidt, and **E. N. Taylor**. 2023. Stress ecology in Snakes. In *Snakes: Morphology, Function, and Ecology* (D. Penning, ed.). Nova Science Publishers.
15. Weaver, S. J., H. Edwards, T. McIntyre, S. M. Temple, Q. Alexander, M. C. Behrens, R. E. Biedebach, S. S. Budwal, J. E. Carlson, J. O. Castagnoli, A. D. Fundingsland, D. V. Hart, J. S. Heaphy, S. W. Keller, K. I. Lucatero, K. H. Mills, N. M. Moallemi, A. M. Murguia, L. Navarro, E. O'Brien, J. K. Perez, T. J. Schauerman, D. M. Stephens, M. C. Venturini, C. M. White, and **E. N. Taylor**. 2022. Cutaneous evaporative water loss in lizards is variable across body regions and plastic in response to humidity. *Herpetologica* 78:169–183.
16. Ivey, K. N., M. B. Cornwall, N. Gaudenti, P. H. Maier, N. Ghazian, M. Owen, E. Nix, M. Zuliani, C. J. Lortie, M. F. Westphal, **E. N. Taylor**. 2022. Temperature-based activity estimation accurately predicts surface activity but not microhabitat use in an endangered heliothermic lizard. *Amphibian and Reptile Conservation* 16:25–34.
17. Goldman, S. L., J. G. Sanders, W. Yan, A. Denice, M. Cornwall, K. N. Ivey, **E. N. Taylor**, A. Gunderson, M. J. Sheehan, D. Mjungu, E. V. Lonsdorf, A. E. Pusey, B. H. Hahn, A. H. Moeller. 2022. Culture-enriched community profiling improves resolution of the vertebrate gut microbiota. *Molecular Ecology* 22:122–136.
18. Weaver, S.J., M. F. Westphal, **E. N. Taylor**. 2021. Technology wish lists and the significance of temperature-sensing wildlife telemetry. *Animal Biotelemetry* 9, Article number: 29.
19. Gaudenti, N., E. Nix, P. H. Maier, M. F. Westphal, **E. N. Taylor**. 2021. Habitat heterogeneity affects the thermal ecology of an endangered lizard. *Ecology and Evolution* 11: 14843–14856.
20. Maier, P. H., T. Nhu, H. L. Crowell, J. C. Sklar, **E. N. Taylor**. 2021. Climatic factors impacting thermoregulatory behaviours of coastal and inland rattlesnakes. *Behavioural Processes* 190:104459.
21. Claunch, N. M., M. L. Holding, J. A. Frazier, E. M. Huff, R. Schonour, B. Vernasco, I. T. Moore, D. R. Rokyta, **E. N. Taylor**. 2021. Experimental manipulation of corticosterone does not affect venom composition or functional activity in free-ranging rattlesnakes. *Physiological and Biochemical Zoology* 94:286–301.
22. Claunch, N., C. Goodman, R. N. Reed, R. Guralnick, C. Romagosa, **E. N. Taylor**. 2021. Invaders from islands: thermal matching, potential, or flexibility? *Biological Journal of the Linnean Society* 134:587–603.
23. Crowell, H. L., K. C. King, J. M. Whelan, M. V. Harmel, G. Garcia, S. G. Gonzales, P. H. Maier, H. Neldner, T. Nhu, J. T. Nolan, **E. N. Taylor**. 2021. Thermal ecology and baseline energetic requirements of a large-bodied ectotherm suggest resilience to climate change. *Ecology and Evolution* 10.1002/ece3.7649.
24. Rock, K. N., I. N. Barnes, M. S. Deyski, K. A. Glynn, B. N. Milstead, M. E. Rottenborn, N. S. Andre, A. Dekhtyar, O. Dekhtyar, **E. N. Taylor**. 2021. Quantifying the gender gap in herpetology. *Herpetologica* 77:1–13.
25. Claunch, N., E. Nix, A. Royal, L. Burgos, M. Corn, P. M. DuBois, K. Ivey, E. King, K. Rucker, T. Shea, J. Stepanek, S. Vansdadia, and **E. N. Taylor**. 2021. Body size impacts critical thermal maximum measurements in lizards. *Journal of Experimental Zoology* 335:96-107.
26. **Taylor, E. N.**, L. M. Diele-Viegas, E. J. Gangloff, J. M. Hall, B. Halpern, M. D. Massey, D. Rödder, N. Rollinson, S. Spears, B. Sun, and R. S. Telemeco. 2021. The thermal ecology and physiology of reptiles and amphibians: A user's guide. *Journal of Experimental Zoology* 335:13-44.

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27. Moeller, A., K. Ivey, M. Cornwall, K. Herr, J. Rede, **E. N. Taylor**, and A. Gunderson. 2020. Lizard gut microbiome changes with temperature and is associated with heat tolerance. *Applied and Environmental Microbiology* 86(17):e01181-20.
28. Gonzales, S. G., H. L. Crowell, M. V. Harmel, P. H. Maier, T. Nhu, J. T. Nolan, J. M. Whelan, **E. N. Taylor**. 2020. Rattlesnake spatial ecology varies among individuals and populations. *Herpetological Review* 51:680–685.
29. Harmel, M. V., H. L. Crowell, J. M. Whelan, and **E. N. Taylor**. 2020. Rattlesnake colouration affects detection by predators. *Journal of Zoology* 311:260-268.
30. Ivey, K. N., M. Cornwall, H. Crowell, N. Ghazian, E. Nix, M. Owen, M. Zuliani, C. J. Lortie, M. Westphal, **E. N. Taylor**. 2020. Thermal ecology of the federally endangered Blunt-nosed Leopard Lizard (*Gambelia sila*). *Conservation Physiology* 8:coaa014.
31. Stepanek, J., N. M. Claunch, J. A. Frazier, I. T. Moore, C. Escallón, B. Vernasco, and **E. N. Taylor**. 2019. Corticosterone and color change in Southern Pacific Rattlesnakes (*Crotalus helleri*). *Herpetologica* 75:143-152.
32. Habroun S. S., A. A. Schaffner, **E. N. Taylor**, and C. R. Strand. 2018. Food consumption increases cell proliferation in the python brain. *The Journal of Experimental Biology* 221:jeb173377.
33. Claunch, N. M., M. L. Holding, C. Escallón, B. Vernasco, I. T. Moore, and **E. N. Taylor**. 2017. Good vibrations: Assessing the stability of snake venom composition after researcher-induced disturbance in the laboratory. *Toxicon* 133:127-135.
34. Claunch, N. M., J. A. Frazier, C. Escallón, B. Vernasco, I. T. Moore, and **E. N. Taylor**. 2017. Physiological and behavioral effects of exogenous corticosterone in a free-ranging ectotherm. *General and Comparative Endocrinology* 248:87-96.
35. French, S., L. Neuman-Lee, P. Terletzky, N. Kiriazis, **E. N. Taylor**, and D. F. DeNardo. 2017. Too much of a good thing? Ecotourism has a “dose-dependent” impact on innate immunity and oxidative stress in marine iguanas, *Amblyrhynchus cristatus*. *Biological Conservation* 210A:37-47.
36. DuBois, P. M., T. K. Shea, N. M. Claunch, and **E. N. Taylor**. 2017. Effects of oxygen on responses to heating in two lizard species sampled along an elevational gradient. *Journal of Thermal Biology* 68:170-176.
37. **Taylor, E. N.**, and W. Booth. 2016. Arizona rattlesnakes as model organisms for studies of reproductive physiology. In *Rattlesnakes of Arizona* (G.K. Schuett, R.S. Reiserer, C.F. Smith, eds.), Eco Publishing, pp. 121-157.
38. Heiken, K. H., G. A. Bruschi IV, S. Gartland, C. Escallón, I. T. Moore, **E. N. Taylor**. 2016. Effects of long-distance translocation on corticosterone and testosterone levels in male rattlesnakes. *General and Comparative Endocrinology* 237:27-33.
39. Capehart, G. D., C. Escallón, B. J. Vernasco, I. T. Moore, **E. N. Taylor**. 2016. No drought about it: Effects of supplemental hydration on the ecology, behavior, and physiology of free-ranging rattlesnakes. *Journal of Arid Environments* 134:79-86.
40. Shea, T. K., P. M. Dubois, N. M. Claunch, N. E. Murphey, K. A. Rucker, R. A. Brewster, **E. N. Taylor**. 2016. Oxygen concentration affects upper thermal tolerance in a terrestrial vertebrate. *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology* 199:87-94.
41. Bruschi G. A. IV, **E. N. Taylor**, and S. M. Whitfield. 2016. Turn up the heat: thermal tolerances of lizards at La Selva, Costa Rica. *Oecologia* 180:325-334.
42. Pollock, N. B., E. Gawne, and **E. N. Taylor**. 2015. Effects of temperature on feeding duration, success, and efficiency of larval western black-legged ticks (Acari: Ixodidae) on western fence lizards. *Experimental and Applied Acarology* 67:299-307.

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43. Sparks, A., C. M. Lind, and **E. N. Taylor**. 2015. Diet of the Northern Pacific Rattlesnake (*Crotalus o. oreganus*) in California. *Herpetological Review* 46:161-165.
44. Holding, M. L., D. A. S. Owen, and **E. N. Taylor**. 2014. Evaluating the thermal effects of translocation in a large-bodied pitviper. *Journal of Experimental Zoology* 321:442-449.
45. Holding, M. L., J. A. Frazier, S. W. Dorr, S. N. Henningsen, I. T. Moore, and **E. N. Taylor**. 2014. Physiological and behavioral effects of repeated handling and short-distance translocations on free-ranging Northern Pacific Rattlesnakes (*Crotalus oreganus oreganus*). *Journal of Herpetology* 48:233-239.
46. Holding, M. L., J. A. Frazier, S. W., Dorr, N. B. Pollock, P. J. Muelleman, A. Branske, S. N. Henningsen, C. Eikenaar, C. Escallón, C. E. Montgomery, I. T. Moore, and **E. N. Taylor**. 2014. Wet- and dry-season steroid hormone profiles and stress reactivity of an insular dwarf snake, the Hog Island Boa (*Boa constrictor imperator*). *Physiological and Biochemical Zoology* 87:363-373.
47. Putman, B. J., C. M. Lind, and **E. N. Taylor**. 2013. Does size matter? Testing the effects of body size and sex on spatial ecology parameters of Northern Pacific Rattlesnakes (*Crotalus oreganus oreganus*) in Central California. *Copeia* 2013:485-492.
48. Pittman, W., N. B. Pollock, and **E. N. Taylor**. 2013. Effect of host anemia on host choice and feeding rate of larval western black-legged ticks (*Ixodes pacificus*). *Experimental and Applied Acarology* 61:471-479.
49. Pollock, N. B., L. K. Vredevoe, and **E. N. Taylor**. 2012. The effect of exogenous testosterone on ectoparasite loads in free-ranging Western Fence Lizards. *Journal of Experimental Zoology* 317:447-454.
50. Pollock, N. B., L. K. Vredevoe, and **E. N. Taylor**. 2012. How do host sex and reproductive state affect host preference and feeding duration of ticks? *Parasitology Research* 111:897-907.
51. Holding, M. L., J. A. Frazier, **E. N. Taylor**, and C. Strand. 2012. Experimentally-altered navigational demands induce changes in the cortical forebrain of free-ranging Northern Pacific Rattlesnakes (*Crotalus o. oreganus*). *Brain, Behavior, and Evolution* 79:144-154.
52. Lumbad, A. S., L. K. Vredevoe, and **E. N. Taylor**. 2011. Season and sex of host affect intensities of ectoparasites in Western fence lizards (*Sceloporus occidentalis*) on the Central Coast of California. *Southwestern Naturalist* 56:369-377.
53. DeNardo, D. F. and **E. N. Taylor**. 2011. Hormones and reproduction in free-ranging snakes. In *Reproductive Biology and Phylogeny of Snakes* (D. M. Sever and R. D. Aldridge, eds.). Science Publishers, Inc. Pp. 265-287.
54. **Taylor, E. N.** and D. F. DeNardo. 2010. Hormones and reproductive cycles in snakes. In *Hormones and Reproduction of Vertebrates*, Vol. 3 (D. O. Norris and K. H. Lopez, eds.). San Diego, Elsevier. Pp. 355-372.
55. Amarello, M., E. M. Nowak, **E. N. Taylor**, G. W. Schuett, R. A. Repp, P. C. Rosen, D. L. Hardy, Sr. 2010. Potential environmental influences on variation in body size and sexual size dimorphism among Arizona populations of the western diamond-backed rattlesnake (*Crotalus atrox*). *Journal of Arid Environments* 74:1443-1449.
56. Lind, C. M., J. F. Husak, C. Eikenaar, I. Moore, and **E. N. Taylor**. 2010. The relationship between plasma steroid hormone concentrations and the reproductive cycle in the Northern Pacific rattlesnake, *Crotalus oreganus*. *General and Comparative Endocrinology* 166:590-599.
57. **Taylor, E. N.** and D. F. DeNardo. 2008. Proximate determinants of sexual size dimorphism in the Western Diamond-backed Rattlesnake (*Crotalus atrox*). In *Biology of Rattlesnakes* (W. K. Hayes, K. R. Beaman, M. D. Cardwell, and S. P. Bush, eds.). Loma Linda Press, Loma Linda, California. Pp. 91-100.

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58. Davis, J., **E. N. Taylor**, and D. F. DeNardo. 2008. An automated temperature-based option for estimating surface activity and refuge use patterns in free-ranging animals. *Journal of Arid Environments* 72:1414–1422.
59. John-Alder, H. B., R. M. Cox, and **E. N. Taylor**. 2007. Proximate developmental mediators of sexual dimorphism in size: case studies from squamate reptiles. *Integrative and Comparative Biology* 47:258–271.
60. Schuett, G. W., R. A. Repp, **E. N. Taylor**, D. F. DeNardo, R. L. Earley, E. A. Van Kirk, and W. J. Murdoch. 2006. Winter profile of plasma sex steroid levels in free-living male western diamond-backed rattlesnakes, *Crotalus atrox* (Serpentes: Viperidae). *General and Comparative Endocrinology* 149:72–80.
61. **Taylor, E. N.**, M. A. Malawy, D. M. Browning, S. V. Lemar, and D. F. DeNardo. 2005. Effects of food supplementation on the physiological ecology of female western diamond-backed rattlesnakes (*Crotalus atrox*). *Oecologia* 144:206–213.
62. **Taylor, E. N.** and D. F. DeNardo. 2005. Sexual size dimorphism and growth plasticity in snakes: an experiment on the Western Diamond-backed Rattlesnake (*Crotalus atrox*). *Journal of Experimental Zoology* 303A:598–607.
63. **Taylor, E. N.** and D. F. DeNardo. 2005. Reproductive ecology of Western Diamond-backed Rattlesnakes (*Crotalus atrox*) in the Sonoran Desert. *Copeia* 2005:152–158.
64. Schuett, G. W., **E. N. Taylor**, E. A. Van Kirk, and W. J. Murdoch. 2004. Handling stress and plasma corticosterone levels in captive male Western Diamond-backed Rattlesnakes (*Crotalus atrox*). *Herpetological Review* 35:229–233.
65. **Taylor, E. N.**, D. F. DeNardo, and D. H. Jennings. 2004. Seasonal steroid hormone levels and their relation to reproduction in the Western Diamond-backed Rattlesnake, *Crotalus atrox* (Serpentes: Viperidae). *General and Comparative Endocrinology* 136:328–337.
66. **Taylor, E. N.**, D. F. DeNardo, and M. A. Malawy. 2004. A comparison between point- and semi-continuous sampling for assessing body temperature in a free-ranging ectotherm. *Journal of Thermal Biology* 29:91–96.
67. **Taylor, E. N.** and G. W. Schuett. 2004. Effects of temperature and storage duration on the stability of steroid hormones in blood samples from Western Diamond-backed Rattlesnakes. *Herpetological Review* 35:14–17.
68. Lourdais, O., X. Bonnet, R. Shine and **E. N. Taylor**. 2003. When does a reproducing female viper (*Vipera aspis*) "decide" on her litter size? *Journal of Zoology* London 259:123–129.
69. **Taylor, E. N.** 2001. Diet of the Baja California rattlesnake, *Crotalus enyo* (Viperidae). *Copeia* 2001:552–554.

PUBLISHED NOTES

1. Gaudenti, N., **E. N. Taylor**, and M. F. Westphal. 2021. *Gambelia sila* (Blunt-nosed Leopard Lizard). Defensive Behavior. *Herpetological Review* 52:141-142.
2. Claunch, N, R. Denton, M. Holding, **E. N. Taylor**, and S. J. Mullin. 2018. *Scaphiopus couchii* (Couch's Spadefoot Toad). Predation. *Herpetological Review* 49:312-313.
3. Claunch, N. M, and **E. N. Taylor**. 2017. *Gambelia wislizenii* (Long-nosed leopard lizard). saurocaudophagy of *Dipsosaurus dorsalis* (Desert Iguana). *Herpetological Review* 48: 190-192.

PUBLISHED BOOK REVIEWS

1. Taylor, E. N. 2021. Review of *The Fear of Snakes. Evolutionary and Psychobiological Perspectives on Our Innate Fear*. N. Kawai. 2021. Springer Nature Singapore Pte Ltd. In *Herpetological Review* 52:889–891.

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2. Taylor, E. N. 2017. Review of *Amphibian and Reptile Adaptations to the Environment: Interplay Between Physiology and Behavior*. D. V. de Andrade, C. R. Bevier, J. E. de Carvalho (Eds.). 2016. CRC Press. In *Copeia* 2017:171-173.

POPULAR SCIENCE BOOKS

1. *California Amphibians and How To Find Them*. Coming Feb 2026. Heyday Books, Berkeley, California, USA
2. *California Lizards and How To Find Them*. 2025. Heyday Books, Berkeley, California, USA
3. *California Snakes and How To Find Them*. 2024. Heyday Books, Berkeley, California, USA

SELECT INVITED SEMINARS (past decade)

2025: Denver Venom Conference; Colorado Partners in Amphibian and Reptile Conservation (Keynote Speaker); International Herpetological Symposium (Keynote Speaker); Biology of the Pitvipers 3 (Banquet Speaker); California Academy of Sciences; San Diego Natural History Museum; Pacific Grove Natural History Museum.

2024: Louisiana State University Museum of Natural Science; California Academy of Sciences; San Diego Natural History Museum; Field Museum of Natural History (featured Women in Science speaker); Snake Ecology Group (keynote speaker); Pacific Grove Natural History Museum; San Diego State University

2023: Loma Linda University; University of California, Berkeley; University of California, Riverside (Palm Desert campus); Cal State San Marcos

2022: University of Michigan, Ann Arbor; Clemson University

2020: University of Texas, Arlington; Notre Dame of Maryland University

2019: Portland State University, Portland Oregon; Southern California Herpfest (Plenary Speaker); Biology of the Pitvipers 3 (Keynote Speaker)

2018: Sustainable Agriculture Expo, San Luis Obispo, California; Colorado State University, Fort Collins, Colorado; Humboldt State University, Arcata, California

2017: University of California, Berkeley; University of Nevada, Reno

2016: University of Central Florida; San Diego State University

2015: The Ohio State University

SELECT CONTRIBUTED PRESENTATIONS (past decade)

2024: Snake Paparazzi: What we can learn by spying on snakes with secret cameras. Society for the Study of Amphibians and Reptiles, Ann Arbor, Michigan.

2023: Dear Herps and Herpers: A Love Letter. Plenary presentation at the Joint Meeting of Ichthyologists and Herpetologists, Norfolk, Virginia.

2022: Research while teaching: Implementing a course-based undergraduate research experience (CURE) in the herpetology classroom. Joint Meeting of Ichthyologists and Herpetologists, Spokane, Washington.

2022: Project RattleCam: A community science project on denning rattlesnakes. Biology of the Pitvipers, Rodeo, New Mexico.

2020: Unraveling the role of body size in thermal maxima. World Congress of Herpetology, Dunedin, New Zealand

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2019: Eat, Prey, Live: Comparative thermal ecology and energy requirements of coastal and inland populations of Pacific Rattlesnakes (*Crotalus oreganus*). The Western Section of The Wildlife Society, Fish Camp, California

2018: The serpent and the rainbow: New insights into coloration in rattlesnakes. Rattlesnake of Arizona Book Signing, Rodeo, New Mexico.

2017: Stressed snakes: What can glucocorticoid hormones tell us about snake physiology? Biology of Snakes, Rodeo, New Mexico.

2016: What's behind the critical thermal maximum? Joint Meeting of Ichthyologists and Herpetologists, New Orleans, Louisiana.

PROFESSIONAL SERVICE

Founder and Co-organizer, Snake Week (2025-)

Board of Directors, Advocates for Snake Preservation (2020-)

President, American Society of Ichthyologists and Herpetologists (President-elect 2021, President 2022, Past-President 2023, Prior Past-President 2024)

Assistant Editor, Environmental Physiology, Integrative and Comparative Biology (2021-2023)

Fitch Award Committee, American Society of Ichthyologists and Herpetologists (2019-21)

Service Committee, Herpetologists' League (2020-21)

Governor, American Society of Ichthyologists and Herpetologists (2009-14, 17-21)

Education Committee, Herpetologists' League (2019-21)

Co-organizer and Instructor, Southwestern Research Station Herpetology Course, Portal, Arizona (2011-13, 2016-present)

Johnson Award Committee, American Society of Ichthyologists and Herpetologists (2016-19)

Governor, Society for the Study of Amphibians and Reptiles (2014-19)

Chair, Resolutions Committee, American Society of Ichthyologists and Herpetologists (2012, 2016)

Chair, Stoye and Storer Award Committee, American Society of Ichthyologists and Herpetologists (2014, 2018)

Nominating Committee, American Society of Ichthyologists and Herpetologists (2011-12)

Gaige Award Committee, American Society of Ichthyologists and Herpetologists (2009-11)

Unit Advisor for Unit 8 of *Biological Sciences* by S. Freeman, published by Pearson/Benjamin Cummings (2009)

Judge, Seibert Student Award, Society for the Study of Amphibians and Reptiles (2009, 2016)

Judge, Stoye/Storer Awards, American Society of Ichthyologists and Herpetologists (2008, 2012, 2015, 2016)

Associate Editor, *Herpetological Review*, published by the Society for the Study of Amphibians and Reptiles (2007-12)

UNIVERSITY SERVICE

Personnel Chair, Biological Sciences, Cal Poly (2025-)

Curator of Herpetology Collections, Cal Poly (2006-)

Frost Summer Research Coordinator, Biological Sciences, Cal Poly (2022)

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Graduate Coordinating Committee, Biological Sciences, Cal Poly (2008-11, 2018-22)
Faculty Advisor, American Medical Student Association, Cal Poly Chapter (2005-16, 2018-22)
Faculty Fellow, Graduate Education, California Polytechnic State University (2018-19)
Health Professions Resource Committee, Cal Poly (2005-18)
Graduate Coordinator, Biological Sciences, Cal Poly (2011-17)
Learn by Doing Award Committee, Cal Poly (2014-15)
Commencement Committee, Cal Poly (2009-14)
Institutional Animal Care and Use Committee (IACUC), Cal Poly (2008-09)

COMMUNITY SERVICE

Central Coast Snake Services: My company relocates ~100 rattlesnakes from residential yards annually in San Luis Obispo and Santa Barbara County at no charge. Annually, we also hold >20 in-person outreach events, give dozens of online and in-person presentations, consult with government and business entities on rattlesnake management, and provide snake safety training to hundreds of people working in areas with rattlesnakes.

GRADUATE STUDENTS (and their current positions)

1. Grant Mccargar: M.S. expected 2027
2. Stella Raymond: M.S. expected 2027
3. Alex Yan: M.S. expected 2026
4. Owen Bachhuber: M.S. 2025 (PhD student at Arizona State University)
5. Max Roberts: M.S. 2025 (PhD student at University of Arizona)
6. Brandon Kong: M.S. 2024 (PhD student at UC Davis)
7. Robin Bedard: M.S. 2023 (biologist)
8. Savannah Weaver: M.S. 2023 (PhD student at University of North Carolina, Chapel Hill)
9. Nicole Gaudenti: M.S. 2021 (biologist)
10. Kathleen Ivey: M.S. 2020 (lecturer)
11. Hayley Crowell: M.S. 2019 (lecturer)
12. Luis Burgos: M.S. 2018 (data analyst)
13. Natalie Claunch, M.S. 2016 (biologist, USGS)
14. Griffin Capehart, M.S. 2015 (biologist)
15. Kyle Weichert: M.S. 2015 (biologist)
16. Michael Maples: M.S. 2015 (biologist)
17. Kory Heiken: M.S. 2013 (biologist)
18. Julius A. Frazier: M.S. 2012 (biologist)
19. Matthew L. Holding: M.S. 2011 (postdoctoral associate at University of Michigan)
20. Nicholas B. Pollock: M.S. 2011 (lecturer)
21. Craig M. Lind: M.S. 2009 (associate professor at Stockton University)