

AMANDA J. ZELLMER
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EDUCATION

2010 **PhD:** University of Michigan. Ecology and Evolutionary Biology.
2003 **BS:** University of Wisconsin-Madison. Honors Zoology, Biological Aspects of Conservation; Certificate: Environmental Studies. Graduated with Distinction.

CURRENT POSITIONS

Associate Professor: Occidental College: 2021-Present.
Assistant Professor: Occidental College: 2015-2021.

PREVIOUS POSITIONS

Postdoctoral Researcher: Dr. Bryan Carstens, Louisiana State University: 2010-2011.
Postdoctoral Researcher: Dr. Dan Pondella, Occidental College: 2013-2015.
Non-Tenure Track Assistant Professor: Occidental College: 2012-2015.

AFFILIATE POSITIONS

Affiliate Researcher: Vantuna Research Group, Occidental College, 2015-present.
Affiliate Research Associate: LA County Museum of Natural History, Herpetology, 2014-present.
Affiliate Research Associate: Moore Lab of Zoology, Occidental College, 2012-present.

PEER-REVIEWED PUBLICATIONS

*Undergraduate student

**Graduate student

***High School student

Shier, D.M., R.Y. Chock, **A.J. Zellmer**, A.P. Wilder, A.Y. Chaille, B. Shomo, O.A. Ryder, C. Steiner. 2025. Conservation in the Anthropocene: Using Genetics to Understand the Past and Manage for the Future of the Threatened Stephens' Kangaroo Rat. *Evolutionary Applications* 18 (8), e70152

Ramirez**, B.R., J.M. Kass, **A.J. Zellmer**, A.K. Hund, E.S.C. Scordato. 2025. Long-term human land-use change throughout Southeast Asia reshapes the distribution of suitable habitat for a human-commensal bird species. *Journal of Biogeography*, 52(6), e15123. <https://doi.org/10.1111/jbi.15123>

Devarajan, K., M. Fidino, Z.J. Farris, [and 210 more authors], **A.J. Zellmer**, and B.D. Gerber. 2025. When the wild things are: defining mammalian diel activity and plasticity. *Science Advances*, 11(9), eado3843. <https://doi.org/10.1126/sciadv.ado3843>

Privett-Mendoza, A.G. **, S. Oganessian*, R.N. Fisher, C.J. Hitchcock, D.R. Clark & **A.J. Zellmer**. 2025. Terrestrial mammal diversity at Hansen Dam (Los Angeles, California, USA): Flood control area acts as habitat in a human-dominated landscape. *Check List*, 20(5), 1–18.

- Larson, R.N., H.A. Sander, M. Fidino, J.L. Angstmann, S. Hayes Hursh, S.B. Magle, ... & **A.J. Zellmer**. 2024. Patterns in tree squirrel co-occurrence vary with responses to local land cover in US cities. *Urban Ecosystems*, 27(6), 2121-2133.
- Scesa, P., H. Nguyen, P. Weiss, A.P. Rodriguez, M. Garchow, S.I. Ohlemacher, E. Prappas, S.A. Caplins, C.A. Bewley, L. Bohnert*, **A.J. Zellmer**, E.M. Wood, E.W. Schmidt, & P.J. Krug. 2024. Defensive polyketides produced by an abundant gastropod are candidate keystone molecules in estuarine ecology. *Science Advances*, 10(44).
<https://doi.org/10.1126/sciadv.adp8643>
- Fidino, M., Sander, H.A., J.S. Lewis, E.W. Lehrer, K. Rivera, M.H. Murray, H.C. Adams, A. Kase, A. Flores, T. Stankowich, C.J. Schell, C.M. Salsbury, A.T. Rohnke, M.J. Jordan, A.M. Green, A.R. Gramza, **A.J. Zellmer**, J. Williamson, T.D. Surasinghe, H. Storm, K.L. Sparks, T.J. Ryan, K.R. Remine, M.E. Pendergast, K. Mullen, D.E. Minier, C.R. Middaugh, A.L. Mertl, M.R. McClung, R.A. Long, R.N. Larson, M.T. Kohl, L.R. Harris, C.T. Hall, J.D. Haight, D. Drake, A.M. Davidge, A.O. Cheek, C.P. Bloch, E.G. Biro, W.J.B. Anthonysamy, J.L. Angstmann, M.L. Allen, S.A. Adalsteinsson, A.G. Short Gianotti, J.M. LaMontagne, T.A. Gelmi-Candusso, S.B. Magle. 2024. Gentrification drives patterns of alpha and beta diversity in cities. *Proceedings of the National Academy of Sciences*, 121(17), p.e2318596121.
- Ramirez, B.R., Freeland, R.J.*, A. Muhlheim*, **A.J. Zellmer**, D.A. DeRaad*, E.J. Kirsch*, M.J. Mutchler, M.B. Secor*, K.R. Reckling*, M.E. Schedl*, B. Durham, W.L.E. Tsai**, R.S. Terrill, S. Sannapareddy*, A.H. Sivakumar, K.L. Garrett, J.E. McCormack. 2024. Convergent niche shifts of endangered parrots (genus *Amazona*) during successful establishment in urban southern California. *Diversity and Distributions*, 30(4), p.e13817.
- Haight, J. D., S. J. Hall, M. Fidino, S.A. Adalsteinsson, A.A. Ahlers, J. Angstmann, W.J.B. Anthonysamy, E. Biro, M. K. Collins, B. Dugelby, T. Gallo, A. M. Green, L. Hartley, M.J. Jordan, C.A.M. Kay, E.W. Lehrer, R.A. Long, B. MacDougall, S.B. Magle, D.E. Minier, C. Mowry, M. Murray, K. Nininger, M.E. Pendergast, K.R. Remine, T. Ryan, C. Salsbury, C.J. Schell, Ç.H. Şekercioğlu, C.J. Shier, K.C. Simon, C.C. St. Clair, T. Stankowich, C. J. Stevenson, L. Wayne, D. Will, J. Williamson, L. Wilson, **A. J. Zellmer**, J. S. Lewis. 2023. Urbanization, climate, and species traits shape mammal communities from local to continental scales. *Nature Ecology & Evolution* 7: 1654–1666.
<https://doi.org/10.1038/s41559-023-02166-x>
- Zellmer, A.J.** & B.S. Goto. 2022. Urban wildlife corridors: building bridges for wildlife and people. *Frontiers in Sustainable Cities* 4: 954089.
- Kay, C.A.M., A.T. Rohnke, H.A. Sander, T. Stankowich, M. Fidino, M.H. Murray, J.S. Lewis, I. Taves, E.W. Lehrer, **A.J. Zellmer**, C.J. Schell, S. Magle. 2022. Barriers to Building Wildlife-Inclusive Cities: Insights from a joint summit of urban ecologists, urban planners, and landscape designers. *People and Nature* 00: 1-9.
- Magle, S., M. Fidino, H.A. Sander, A.T. Rohnke, K.L. Larson, C.A. Kay, L. Lehrer, M.H. Murray, S.A. Adalsteinsson, A.A. Ahlers, W.J.B. Anthonysamy, T. Gallo, A.R. Gramza, A.M. Green, M.J. Jordan, J.S. Lewis, R.A. Long, B. MacDougall, K. Remine, K.C. Simon, C.C. St. Clair, T. Stankowich, **A.J. Zellmer**, C.J. Schell. 2021. Wealth and urbanization shape mammalian communities across North America. *Global Change Biology* 27: 5446-5459.
DOI: 10.1111/gcb.15800
- Terrill, R.S., Y. Fong, J.D. Wolfe, & **A.J. Zellmer**. 2021. Threshold models improve estimates of molt parameters in datasets with small sample sizes. *Ornithology*, ukab038.

- Fidino, M., T. Gallo, E. Lehrer, M. Murray, C. Kay, B. MacDougall, C. Salsbury, T. Ryan, J. Angstmann, A. Belaire, B. Dugelby, C. Schell, T. Stankowich, M. Amaya, D. Drake, S. Hursh, A. Ahlers, J. Williamson, L. Hartley, **A. Zellmer**, K. Simon, S. Magle. 2020. Landscape-scale differences among cities alters species' responses to urbanization. *Ecological Applications* 31(2): e02253.
- 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(8): e03215.
- Zellmer, A.J.**, P. Slezak*, T.S. Katz**. 2020. Clearing up the crystal ball: understanding uncertainty in future climate suitability projections for amphibians. *Herpetologica*. 76(2) 108-120.
- Katrak-Adefowora, R. *, J.L. Blickley, & **A.J. Zellmer**. 2020. Just-in-time training improves accuracy of citizen scientist wildlife identifications from camera trap photos. *Citizen Science: Theory & Practice*. 5(1), 8.
- Pondella, D.J., II, S. Piacenza, J.T. Claisse, J. Williams, C. Williams**, **A.J. Zellmer**, & J. Casselle. 2019. Assessing drivers of fish biomass: a case study using the nearshore rocky reefs of the Southern California Bight. *Marine Ecology Progress Series*. 628, 125-140. doi:10.3354/meps13103
- Zellmer, A. J.**, J. T. Claisse, C. M. Williams**, S. Schwab*, and Pondella, D. J. 2019. Predicting Optimal Sites for Ecosystem Restoration Using Stacked-Species Distribution Modeling. *Front. Mar. Sci.* 6, 3. doi:10.3389/FMARS.2019.00003.
- Friis, G. **, G. Fandos, **A.J. Zellmer**, J.E. McCormack, B.C. Faircloth, and B. Milá. 2018. Genome-wide signals of drift and local adaptation during rapid lineage divergence in a songbird. *Mol. Ecol.* 27, 5137–5153. doi:10.1111/mec.14946.
- Venkatraman, M. X.*, D.A. DeRaad*, W.L.E. Tsai, E. Zarza, **A.J. Zellmer**, J.M. Maley, & J.E. McCormack. 2019. Cloudy with a chance of speciation: integrative taxonomy reveals extraordinary divergence within a Mesoamerican cloud forest bird. *Biol. J. Linn. Soc.* 126, 1–15. doi:10.1093/biolinnean/bly156.
- Zellmer, A. J.**, H. Burdick, I. Medel, D. J. Pondella, and T. Ford. 2018. Aerial surveys and distribution models enable monitoring of fishing in Marine Protected Areas. *Ocean Coast. Manag.* 165, 298–306. doi:10.1016/J.OCECOAMAN.2018.08.027.
- Pondella, Daniel J., I., M.J. Robart, J.T. Claisse, J.P. Williams, C.M. Williams, **A.J. Zellmer** 2018. Spatial and Temporal Fishing Patterns at the Outer Banks of the Southern California Bight. *West. North Am. Nat.* 78, 341–357. doi:10.3398/064.078.0309.
- Katz, T.S.* & **A.J. Zellmer**. 2018. Incorporating model selection in predicting the spread of invasive fungal pathogen *Batrachochytrium salamandrivorans*. *Biological Invasions*. <https://doi.org/10.1007/s10530-018-1690-7>
- Zellmer, A.J.**, J.T. Claisse, C.M. Williams, & D.J. Pondella. 2018. Long-term, spatial marine harvest intensity as an indicator of human impact on shallow rocky reef ecosystems. *Marine Ecology* 39(S1): e12463.
- Zellmer, A.J.** 2018. Microgeographic morphological variation across larval wood frog populations associated with environment despite gene flow. *Ecology and Evolution* 8(5): 2504-2517.
- Aronson, H.S.*, **A.J. Zellmer**, & S.K. Goffredi. 2017. The specific and exclusive microbiome of the deep-sea bone-eating snail, *Rubyspira osteovora*. *FEMS Microbiology Ecology* 93(3): fiw250.

- Bryson Jr., R., W. Savary, **A. Zellmer**, B. Bury, J. McCormack. 2016. Genomic data reveal ancient microendemism in forest scorpions across the California Floristic Province. *Molecular Ecology* 25: 3731–3751
- Satler, J.D. **, **A.J. Zellmer**, & B.C. Carstens. 2016. Biogeographic barriers drive co-diversification within associated eukaryotes of the *Sarracenia alata* pitcher plant system. *PeerJ*. DOI 10.7717/peerj.1576
- Mikovari*, A., J. Williams, F. Oakes, R.B. Lincicum, **A.J. Zellmer**, & G.G. Martin. 2015. Radula development in the giant key-hole limpet, *Megathura crenulata*. *Journal of Shellfish Research*.
- Pelletier, T.A. **, C. Crisafulli, S. Wagner, **A.J. Zellmer**, & B.C. Carstens. 2014. Historical species distribution models predict species limits in western *Plethodon* salamanders. *Systematic Biology* 64(6): 909-925. DOI:10.1093/sysbio/syu090
- McCormack, J.E., S. Hird, **A.J. Zellmer**, B.C. Carstens, & R.T. Brumfield. 2013. Applications of next-generation sequencing to phylogeography and phylogenetics. *Molecular Phylogenetics and Evolution* 66: 526-538.
- Zellmer, A.J.**, M.M. Hanes, S.M. Hird, & B.C. Carstens. 2012. Deep phylogeographic structure and environmental differentiation in the carnivorous plant *Sarracenia alata*. *Systematic Biology* 61: 763-777.
- McCormack, J.E., **A.J. Zellmer**, & L.L. Knowles. 2010. Does niche divergence accompany allopatric divergence in *Aphelocoma* jays as predicted under ecological speciation?: Insights from tests with niche models. *Evolution* 64: 1231-1244.
- Zellmer, A.J.** & L.L. Knowles. 2009. Disentangling the effects of historic vs. contemporary landscape structure on population genetic divergence. *Molecular Ecology* 18: 3593-3602.
- Zellmer, A.J.**, C.L. Richards, & L.M. Martens*. 2008. Low prevalence of *Batrachochytrium dendrobatidis* across *Rana sylvatica* populations in southeastern Michigan. *Herpetological Review* 39: 196-199.
- Richards, C.L., **A.J. Zellmer**, & L.M. Martens*. 2008. Absence of *Batrachochytrium dendrobatidis* from *Oophaga pumilio* populations on Bastimentos Island, Panama. *Herpetological Review* 39: 200-202.
- Zellmer, A.J.**, T.F.H. Allen, & K. Kesseboehmer. 2006. The nature of ecological complexity: a protocol for building the narrative. *Ecological Complexity* 3: 171-182.

OTHER PUBLICATIONS

- Zellmer, A.J.** & A. Sherman. 2017. Culturally inclusive STEM education. *Science* 358(6361): 312-313. 10.1126/science.aag0358
- Zellmer, A.** 2016. Family-friendly science. *Science* 354(6315): 1070.
- Pondella, D., K.C. Schiff, R. Schaffner, **A. Zellmer**, J. Coates. 2016. [Southern California Bight 2013 Regional Monitoring Program: Volume II. Rocky Reefs](#). Technical Report 932. Southern California Coastal Water Research Project Authority. Costa Mesa, CA.
- Allen, T.F.H., **A.J. Zellmer**, & C.J. Wuennenberg. 2005. The loss of narrative. In *Ecological Paradigms Lost: Routes to Theory Change*. Eds. K. Cuddington and B. Beisner. Academic/Elsevier.
- McCormick, R.J., **A.J. Zellmer**, & T.F.H. Allen. 2004. Type, scale, and adaptive narrative: Keeping models of salmon, toxicology and risk alive to the world. *Landscape Ecology and Wildlife Habitat Evaluation: Critical Information for Ecological Risk Assessment, Land-Use Management Activities, and Biodiversity Enhancement Practices*, ASTM STP 1458, L.A.

Kapustka, H. Gilbraith, M. Luxon, and G.R. Biddinger, Eds., ASTM International, West Conshohocken, PA.

TEACHING

**Courses developed de novo*

Broader Impacts of Biology (Bio 390)*	<u>Lecture</u> F 2020
Computational Biology (Bio 373)*	<u>Lecture & Lab</u> S 2018, S 2020, S 2022, S2024
Biostatistics (Bio 268)*	<u>Lecture & Lab</u> F 2014, F 2015, F 2016, F 2017, S 2019, F 2019, F 2020, S 2021, F 2021, S 2023, F 2023, S 2025, F 2025
Biostatistics (Bio 368)*	<u>Lecture & Lab</u> F 2013
Ecology (Bio 270)*	<u>Lecture & Lab</u> S 2026
Organisms on Earth (Bio 110)	<u>Lecture & Lab</u> F 2012 (x2), S 2013, S 2014, S 2016, S 2017, S 2019, F 2024
Intro Bio: Eco, Evo, & Env't (Bio 110)	<u>Lecture & Lab</u> F 2024
Senior Comprehensives (Bio 490)	F 2019, S 2024, F 2025
Directed Research (Bio 395)	2015-Present
Tropical Ecology (Bio 370)	<u>International Field Course</u> Sum 2014

RESEARCH AWARDS, FELLOWSHIPS, & GIFTS

2025	Arroyos & Foothills Conservancy – Monarch Award
2025	Los Angeles County Department of Regional Planning. “Significant Ecological Areas Study and CEQA Analysis for Conservation and Natural Resources Element Update.” Subaward from RCDSMM. (\$35,000)
2025	Wildlife Conservation Board & Wildlife Conservation Network. “South LA County Habitat Connectivity Master Plan” Subaward from RCDSMM. (\$200,000)
2025	Natural Communities Coalition. “Impacts of Conservation Grazing on Amphibian and Reptile Community in Weir Canyon” (\$207,343)
2023	Gift from Sally and John Howell (\$5,000)
2023	Wildlife Conservation Board: Newhall Pass Wildlife Bridge (\$82,000)
2022	HHMI: Working Collectively to Understand, Promote, and Evaluate Inclusive Teaching. (\$505,000)
2022	Disney Conservation Fund Grant. “Hahamongna to Tujunga Wildlife Corridor.” Submitted via Arroyos & Foothills Conservancy, PI: A.J. Zellmer. (\$50,000)
2021	NSF: Collaborative Research: RUI: Keystone molecules and estuarine foodwebs: chemical defense and a novel biosynthetic pathway in a common mudflat mollusc (\$128,646)

Amanda Zellmer – *Curriculum Vitae*

- 2020 Faculty-led Richter. Galapagos, Ecuador – delayed to 2022.
- 2019 NSF Major Research Instrumentation. Li, J.N.H., D. Ngo, J. Cannon, A.J. Zellmer, J. Scheel. **(\$493,878)**
- 2018 Disney Conservation Fund Grant. “Hahamongna to Tujunga Wildlife Corridor.” Submitted via Arroyos & Foothills Conservancy, PI: A.J. Zellmer. **(\$50,000)**
- 2018 NSF Major Research Instrumentation. McCormack, J.E., A.J. Zellmer. S. Goffredi, D.J. Pondella, J. Schulz. **(\$230,000)**
- 2018 NSF Collections in Support of Biological Research. Pondella, D., A.J. Zellmer, J. Maley, J.E. McCormack. **(\$346,916)**
- 2018 MacArthur International Grant **(\$3,000)**
- 2017 IES Abroad Research Associate Travel Award **(\$1200 + travel expenses)** for research in Galapagos Islands, Ecuador
- 2017 International Programs Office, Occidental College, Matching Travel Funds **(\$1,000)**
- 2017 Raymond D. Semlitsch Early-Career Research Award, Herpetologists’ League **(\$5,000)**
- 2016 Public Health Course Development Grant **(\$850)**
- 2016, 18 Faculty Enrichment Grant. **(\$3,500; \$4,000)**
- 2015 NOAA Saltonstall-Kennedy Grant. D.J., Pondella, J.T. Claisse, & **A.J. Zellmer. (\$211,000)**
- 2015 The Campbell Foundation. Ford, T., H. Burdick, S. Valor, I. Medel, C. Steele, D.J., Pondella, & **A.J. Zellmer. (\$30,000)**
- 2014 The Campbell Foundation. Ford, T., H. Burdick, S. Valor, I. Medel, C. Steele, D.J., Pondella, & **A.J. Zellmer. (\$30,000)**
- 2005 *Honorable Mention* - National Science Foundation Graduate Research Fellowship

TEACHING AWARDS

- 2017, 21 Kurata Faculty Award **(\$5,655)**
- 2014, 17, 18, 19, 20, 21, 22 *Nomination* – Loftsgordon Memorial Award for Outstanding Teaching
- 2021, 23, 25 *Nomination* – Linda and Tod White Teaching Prize
- 2007 Rackham Outstanding Graduate Student Instructor Award, University of Michigan **(\$1,000)**

INVITED PRESENTATIONS

- Zellmer, A.J.** Take the 5 to the 110: Navigating Wildlife through LA's Urban Landscape. University of Southern California, Center for Ecological and Evolutionary Dynamics Seminar Series. January, 2025.
- Zellmer, A.J.** Panel: (Un)precedented Ecologies: ‘Nature’ in the Age of the Anthropause. February 2021
- Zellmer, A.J.** What can we learn from wildlife sightings during the COVID-19 global shutdown? South Dakota The Wildlife Society. February 2021

- Zellmer, A.J.** What can we learn from wildlife sightings during the COVID-19 global shutdown? LA Audubon. November 2020
- Zellmer, A.J.** Getting to know your neighbors: community scientists help elucidate urban salamander ecology, evolution, and distributions. California State University San Bernardino, January 2020
- Zellmer, A.J.** Symposium on Global Amphibian Population Declines: 30 Years of Progress in Confronting a Complex Problem. McGill University, September 2019
- Zellmer, A.J. & G.B. Pauly.** Symposium on Citizen Science and Herpetology. Citizen science observations provide unique insight into salamander distributions within urban environments. JMIH. July 2019
- Zellmer, A.J.** Species distribution modeling for conservation biology. Loma Linda University, December 2018
- Zellmer, A.J.** Species distribution modeling for conservation biology. University of California, Santa Barbara, October 2018
- Zellmer, A.J.** Species distribution modeling for conservation biology. California Polytechnic University, Pomona, October 2018
- Zellmer, A.J.** Species distribution modeling for conservation biology. California State University, Dominguez Hills, November 2017.
- Zellmer, A.J.** Species distribution modeling for conservation biology. Rice University, Houston, October 2017.
- Zellmer, A.J.** Species Distribution modeling for conservation biology. California State University, Los Angeles, September 2017.
- Zellmer, A.J.** Species distribution modeling for conservation biology. University of California, Merced, October 2016.
- Zellmer, A.J.** Spatial fishing pressure index for rocky reef habitat in the Southern California Bight. Socio-Economic Analyses of Coastal Ecosystem Resilience. Urban Coastal Research Symposium 2014, Los Angeles, CA.
- Sherman, A., **A.J. Zellmer**, & M.T. Morales*. Inclusivity in the STEM Classroom. Talk About Teaching Lunch Series 2016, Occidental College, Los Angeles, CA.

PRESENTATIONS AND POSTERS

¹*Presenter*

- Cavazos, K.¹, B. Goto, **A.J. Zellmer**. Bridging Communities and Nature: Education and Habitat Restoration for Urban Wildlife Conservation. International Urban Wildlife Conference, 2025. Atlanta, GA.
- Siehl, R.F.^{**1}, **A.J. Zellmer**, B. Rawles^{**}, T. Stankowich, E.M. Wood. Urbanization and extreme weather events shift animal occupancy in the Greater Los Angeles area. International Urban Wildlife Conference, 2025. Atlanta, GA.
- Becker, I.^{*}, A.G. Privett-Mendoza^{**1}, J. Curti, S.P.D. Riley, **A.J. Zellmer**. The quail quandary: Investigating the effects of urban anthropogenic stressors on a resident ground-dwelling bird. International Urban Wildlife Conference, 2025. Atlanta, GA.
- Schoen, E.^{*1}, T. Gelmi, M. Gonzalez^{*}, H. Baez^{*}, M. Yasuda, M. Fidino, **A. Zellmer**. The big picture: Does AI image classification affect occupancy estimates of urban wildlife? International Urban Wildlife Conference, 2025. Atlanta, GA.
- Becker, I.^{*}, A.G. Privett-Mendoza^{**}, J. Curti, S.P.D. Riley, **A.J. Zellmer**¹. The quail quandary: Investigating the effects of urban anthropogenic stressors on a resident ground-dwelling bird. Southern California Academy of Sciences Annual Conference, 2025. Irvine, CA.

- Ramirez, B.R.¹, R.J. Freeland*, A. Muhlheim*, **A.J. Zellmer**, D.A. DeRaad*, E.J. Kirsch*, M.J. Mutchler, M.B. Secor*, K.R. Reckling*, M.E. Schedl*, B. Durham, W.L.E. Tsai**, R.S. Terrill, S. Sannapareddy*, A.H. Sivakumar, K.L. Garrett, J.E. McCormack. Amazona ancestry: The ecological and genetic impact of urban introduction on sister parrot species. Southern California Academy of Sciences Annual Conference, 2025. Irvine, CA.
- Miyake, C.^{*,1}, R. Siehl**, K. Brumfield*, L. Warren*, P. Krug, **A. Zellmer**. Comparing the relationship between species distribution models and density in Alderia mudflat sea slugs. Southern California Academy of Sciences Annual Conference, 2025. Irvine, CA.
- Schoen, E.^{*,1}, T. Gelmi, M. Gonzalez*, H. Baez*, M. Yasuda, M. Fidino, **A. Zellmer**. The big picture: Does AI image classification affect occupancy estimates of urban wildlife? Southern California Academy of Sciences Annual Conference, 2025. Irvine, CA.
- Fine, J.^{*,1}, **A. Zellmer**. The relative influence of habitat versus connectivity on understory and ground-dwelling birds in urban wildlife corridors. Southern California Academy of Sciences Annual Conference, 2025. Irvine, CA.
- Brumfield, K.A.^{*,1}, R. Siehl**, C. Miyake*, L. Warren*, P. Krug, **A.J. Zellmer**. Predicting shifting biomass of keystone mudflat estuary sea slugs. Southern California Academy of Sciences Annual Conference, 2025. Irvine, CA.
- Warren, L.^{*,1}, R. Siehl**, K.A. Brumfield*, C. Miyake*, P. Krug, **A. Zellmer**. Quantifying biomass of Alderia sea slugs in West Coast mudflat estuaries. Southern California Academy of Sciences Annual Conference, 2025. Irvine, CA.
- Siehl, R.F.^{**,1}, **A.J. Zellmer**, B. Rawles**, T. Stankowich, E.M. Wood. Urbanization and extreme weather events shift animal occupancy in the Greater Los Angeles area. Southern California Academy of Sciences Annual Conference, 2025. Irvine, CA.
- Siehl, R.F.^{**,1}, R. Myron*, T. Searcy-Jorgensen*, L. Bohnert*, **A. Zellmer**. Quantifying Biomass of Alderia Sea Slugs in West Coast Mudflat Estuaries. American Malacological Society Conference, 2024. Pasadena, CA.
- Zellmer, A.J.**¹, J. Fine*, M. Yasuda, K.R. Reckling**, D.S. Cooper, C.P. Stevens, I. Brown. Applied Connectivity Modeling Informs Prioritization of Candidate Wildlife Crossing Locations in Southern California. Southern California Academy of Sciences Annual Conference, 2024. Orange, CA.
- Becker, I.^{*,1}, **A.J. Zellmer**, J.N. Curti. The Quail Quandary: Investigating the Effects of Urban Anthropogenic Stressors on a Resident Ground-dwelling Bird. Southern California Academy of Sciences Annual Conference, 2024. Orange, CA.
- Zellmer, A.J.**¹ and B.S. Goto. Urban wildlife corridors: building bridges for wildlife and people. International Urban Wildlife Conference, 2023. Washington, DC.
- Whorton, C.^{*,1}, R.A. Arias, A.G. Privett-Mendoza, **A.J. Zellmer**. Burgling bobcats. On the potential for leveraging a global network of security cameras for scientific wildlife observations and conservation. International Urban Wildlife Conference, 2023. Washington, DC.
- Rawles, B.^{**,1}, T. Stankowich, E. Wood, **A.J. Zellmer**. The relative effects of drought and urbanization on terrestrial mammal occupancy in Southern California. International Urban Wildlife Conference, 2023. Washington, DC.
- Privett-Mendoza¹, A.G., **A.J. Zellmer**, B.S. Goto, J. Howell, T. Martinez, K. Lam, J. Turner. From theoretical to paws on the ground – how predictive are connectivity models for urban wildlife corridors? International Urban Wildlife Conference, 2023. Washington, DC.

- Zellmer, A.J.**¹ and B.S. Goto. Urban wildlife corridors: building bridges for wildlife and people. International Association for Landscape Ecology, 2023. Riverside, CA.
- Zellmer, A.J.**¹ and B.S. Goto. Urban wildlife corridors: building bridges for wildlife and people. Urban biodiversity symposium. Southern California Academy of the Sciences Annual Conference, 2022. Fullerton, CA.
- Wong, S.M.^{***,1}, E. Schissler^{*}, E. Rosen^{*}, M. Swomley, and **A.J. Zellmer**. Comparing community science and camera trap observations to study the impact of the COVID-19 shutdown on urban wildlife. Poster Session. Southern California Academy of the Sciences Annual Conference, 2022. Fullerton, CA.
- Arias, R.-A.^{***,1}, A.G. Privett-Mendoza, and **A.J. Zellmer**. Burgling bobcats. On the potential for leveraging a global network of security cameras for scientific wildlife observations and conservation. Poster Session. Southern California Academy of the Sciences Annual Conference, 2022. Fullerton, CA.
- Privett-Mendoza, A.G.¹, S. Oganseyan^{*}, **A.J. Zellmer**, R.N. Fisher, C.J. Hitchcock. Those dam wildlife: a biological survey of terrestrial mammal species at Hansen Dam. Poster Session. Southern California Academy of the Sciences Annual Conference, 2022. Fullerton, CA.
- Woods, E.^{*1}, R.-A. Arias^{***}, M. Swomley, A.G. Privett-Mendoza, and **A.J. Zellmer**. Undiscovered highways: urban stream beds as a potential source of connectivity for urban wildlife. Poster Session. Southern California Academy of the Sciences Annual Conference, 2022. Fullerton, CA.
- Gonzalez, M.^{*1}, M. Ogden, H. Baez^{*}, and **A.J. Zellmer**. Trapping data: a machine learning pipeline for processing animal trap images. Poster Session. Southern California Academy of the Sciences Annual Conference, 2022. Fullerton, CA.
- Schissler, E.^{*1}, Rosen, E.^{***}, Swomley, M.^{*}, and **A.J. Zellmer**. Did the COVID-19 shutdown impact wildlife occupancy in the greater Los Angeles area? Poster Session. Southern California Academy of the Sciences Annual Conference, 2021. Virtual.
- Magle, S. **A.J. Zellmer**¹, et al. Wealth and urbanization shape mammalian communities across North America. TWS 2021. Virtual.
- Zellmer, A.J.** Identifying Wildlife Corridors among Urban Islands. San Marino Rotary July 2020, San Marino, CA.
- Zellmer, A.J.** & G.B. Pauly. Citizen science observations provide unique insight into salamander distributions within urban environments. Amphibians & Reptiles. International Urban Wildlife Conference 2019, Portland, OR.
- Katrak-Adefowora R.^{*}, B. Goto, M. Duttweiler, T. Martinez, L. Pliego^{**}, A. Pham^{**}, **A.J. Zellmer**. Camera trap and citizen science observation data paired with landscape resistance modeling identifies major urban wildlife corridors. Research from the Urban Wildlife Information Network. International Urban Wildlife Conference 2019, Portland, OR.
- Forsline, M.G.^{*}, J.L. Blickley, A.J. Zellmer. The effects of urbanization on temperature and humidity variation in *Batrachoseps nigriventris* microhabitats. Poster Session. Southern California Academy of the Sciences Annual Conference, 2019, Northridge, CA.
- Zellmer, A.J.** & G.B. Pauly. Citizen Science Elucidates Urban Habitat Usage by *Batrachoseps* Salamanders. Conservation & Restoration II. Western Society of Naturalists 2017, Pasadena, CA.
- Pondella, D.J., Piacenza, S., Claisse, J.T., Williams, C.M., Williams, J.P., **Zellmer, A.J.** Characterizing drivers of fish biomass on nearshore rocky reefs in the Southern California Bight. Speed Talks I. Western Society of Naturalists 2017, Pasadena, CA.

- Malik, A.M. ^{*,1}, **Zellmer, A.J.**, Pondella, D. Using species distribution models to inform reintroduction and habitat restoration for endangered abalone species. Endangered Species. Western Society of Naturalists 2017, Pasadena, CA.
- Gillman M.G. ^{*}, North G.B., **Zellmer A.J.** Using physiological traits and global climate models to refine species distribution projections of valley oak. Poster Session. Western Society of Naturalists 2017, Pasadena, CA.
- Katrak-Adefowora, R. ^{*}, **Zellmer, A.J.**, Blickley, J. Training improves accuracy of citizen scientist wildlife identifications from camera trap photos. Poster Session. Western Society of Naturalists 2017, Pasadena, CA.
- McCormack, J.E., Maley, J.M., Tsai, W.L.E., **Zellmer, A.J.**, Freeland, R.J. ^{*} An urban jungle: environmental niche modeling of feral parrots in Los Angeles. Poster Session. Western Society of Naturalists 2017, Pasadena, CA.
- Slezak, P. ^{*}, **Zellmer, A. J.** Niche modelling for at-risk salamanders with changing climate and habitat. Poster Session. Western Society of Naturalists 2017, Pasadena, CA.
- Tsai, W. E. Bonaccorso, E.M. Schwab^{*}, B. Scott^{*}, **A.J. Zellmer**, J.M. Maley, M. Cohn-Haft, A. Navarro-Sigüenza, A.T. Peterson, & J.E. McCormack. Phylogenetic relationships of New World jays using ultraconserved elements.
- Zellmer, A.J.**¹ & G.B. Pauly. Citizen Science Elucidates Urban Habitat Usage by *Batrachoseps* Salamanders. Herp Ecology II. Joint Meeting of the Ichthyologists and Herpetologists 2017, Austin, TX.
- Katz, T.S. ^{*} & **A.J. Zellmer**. Incorporating Model Selection in Predicting the Spread of Invasive Fungal Pathogen *Batrachochytrium salamandrivorans*. SSAR Seibert Ecology III. Joint Meeting of the Ichthyologists and Herpetologists 2017, Austin, TX.
- Katz, T.S. ^{*} & **A.J. Zellmer**. Incorporating Model Selection in Predicting the Spread of Invasive Fungal Pathogen *Batrachochytrium salamandrivorans*. Poster Session. National Conference for Undergraduate Research 2017, Memphis, TN.
- Katz, T.S. ^{*} & **A.J. Zellmer**. Incorporating Model Selection in Predicting the Spread of Invasive Fungal Pathogen *Batrachochytrium salamandrivorans*. Poster Session. Southern California Conferences for Undergraduate Research 2016, Riverside, CA.
- Morales, M.T. ^{*}, A. Sherman, **A.J. Zellmer**. Integrating diversity in STEM at Occidental College. Poster Session. Southern California Conferences for Undergraduate Research 2016, Riverside, CA.
- Uba, G. ^{*} & **A.J. Zellmer**. Potential species delimitation of *Batrachoseps attenuatus*. Poster Session. URC Summer Research Conference 2016, Occidental College, Los Angeles, CA.
- Michels, D.E. ^{*}, G.G. Martin, **A.J. Zellmer**, S.K. Goffredi. The skin of the giant keyhole limpet; a unique bacterial habitat governed by tissue type and host geography. Poster Session. Southern California Academy of the Sciences 2016, Los Angeles, CA.
- Roeper, A. ^{*}, **A.J. Zellmer**, C.M. Williams, J.T. Claisse, D.J. Pondella, II. Long-term stability of fish communities in San Diego Bay. Poster Session. Southern California Academy of the Sciences 2016, Los Angeles, CA.
- Schwab, S.T. ^{*}, **A.J. Zellmer**, C.M. Williams, J.T. Claisse, D.J. Pondella, II. Maximizing success of artificial reef placement off the coast of California. Poster Session. Southern California Academy of the Sciences 2016, Los Angeles, CA.
- DeRaad, D. ^{*} & **A.J. Zellmer**. Conservation implications of *Taricha torosa* habitat preferences in the San Gabriel Mountain Range. Poster Session. URC Summer Research Conference 2016, Occidental College, Los Angeles, CA.

- Zellmer, A.J.**, J.T. Claisse, C.M. Williams, & D.J. Pondella. Spatial fishing pressure index for rocky reef habitat in the Southern California Bight. Western Society of Naturalists 2014, Oxnard, CA.
- Zellmer, A.J.** & B.C. Carstens. 2011. Testing for local adaptation in carnivorous plant populations using global climate data and next-generation sequencing. Adaptation - Plants. Evolution 2011, Norman, OK.
- Carstens, B.C. & **A.J. Zellmer**. 2011. Next-generation sequencing allows us to identify the timing and causes of diversification in the carnivorous plant *Sarracenia alata*. Symposium: The Promises and Pitfalls of Incorporating Next-Generation Sequencing Data in Phylogeography. Evolution 2011, Norman, OK.
- Zellmer, A.J.**, M.M. Koopman, & B.C. Carstens. 2010. Community phylogeography in a carnivorous plant. Phylogeography I. Evolution 2010, Portland, OR.
- Zellmer, A.J.**, J.E. Middlemis, & E.E. Werner. 2010. Consequences of inbreeding and outbreeding for population-level fitness correlates in an amphibian with local adaptation. Evolution: Genetic Isolation and Differentiation. ESA 95th Annual Meeting, Pittsburgh, PA.
- Zellmer, A.J.**, E.E. Werner, & L.L. Knowles. 2009. Adaptive divergence of wood frog populations in the face of gene flow. Natural Selection and Adaptation. Evolution 2009, Moscow, ID.
- McCormack, J.E., **A.J. Zellmer**, & L.L. Knowles. 2009. Ecological divergence as a consequence of speciation in *Aphelocoma* jays: niche models, null models, and a new multivariate method. Speciation. Evolution 2009, Moscow, ID.
- Zellmer, A.J.**, L.L. Knowles, & E.E. Werner. 2008. Temporal dynamics of population genetic divergence revealed by comparison of historic and contemporary landscape connectivity. Phylogeography III. Evolution 2008, Minneapolis, MN.
- Zellmer, A.J.** 2008. Fine-scale genetic consequences of contemporary landscape changes in wood frog (*Rana sylvatica*) populations. Department of Ecology and Evolutionary Biology Lunch Seminar, University of Michigan.
- Richards, C.L., **A.J. Zellmer**, & L.M. Martens*. 2007. Patterns of chytridiomycosis infection in Panamanian golden frog populations (*Atelopus varius* and *A. zeteki*). Poster Session. Amphibian Declines & Chytridiomycosis Conference, Tempe, AZ.
- Martens, L.M. *, **A.J. Zellmer**, & C.L. Richards. 2007. Environmental substrates as a source of chytridiomycosis infection. Poster Session. Amphibian Declines & Chytridiomycosis Conference, Tempe, AZ.
- Zellmer, A.J.**, L.L. Knowles, & E.E. Werner. 2007. The effect of matrix structure on gene flow between *Rana sylvatica* populations. Oral Session 50: Habitat Connectivity and Fragmentation II: Case Studies. ESA 92nd Annual Meeting, San Jose, CA.
- Zellmer, A.J.**, L.L. Knowles, & E.E. Werner. 2007. Fine-scale genetic differentiation between wood frog populations: testing for evidence of local adaptation. University of Michigan's Young Scientists Symposium, Ann Arbor, MI.
- Zellmer, A.J.**, L.L. Knowles, & E.E. Werner. 2006. Poster Session. Fine-scale genetic differentiation between wood frog populations: testing for evidence of local adaptation. Oral Session 96: Population and Community Genetics. ESA 91st Annual Meeting, Memphis, TN.
- Zellmer, A.J.**, & T.F.H. Allen, 2003. Evaluating ecological models: encoding, decoding and complementarity. Oral Session 90: Ecological Theory II: Modeling; Populations; Disease. ESA 88th Annual Meeting, Savannah, GA.

Allen, T.F.H, & **A.J. Zellmer**, 2003. Complexity and sustainability, part II; ecological complexity. Symposium 4: Ecological Complexity and Sustainability. ESA 88th Annual Meeting, Savannah, GA.

MEDIA COVERAGE

PBS: Earth Focus Documentary: Urban Habitat: Understanding How Species Adapt in Urban Habitats. <https://www.kcet.org/shows/earth-focus/urban-habitat-cataloging-species>, contributor in partner with NHMLA.

NHMLA Nature in LA Blog: California Showers Bring Salamanders: Please Help Us Find Them.

<https://nhm.org/nature/blog/california-showers-bring-salamanders-please-help-us-find-them>

Daily Zooniverse: New Publication Studying Camera Trap Classification Projects.

<https://daily.zooniverse.org/2020/07/20/new-publication-studying-camera-trap-classification-projects/> July 20, 2020

PROFESSIONAL SOCIETIES

American Society of Ichthyologists and Herpetologists (ASIH), 2017-2021

Herpetologists' League, 2017-2021

Phi Kappa Phi Honor Society, initiated 2004

Society for Conservation Biology, 2016-2017

Southern California Academy of Sciences, 2016-present

SYNERGISTIC ACTIVITIES AND SERVICE

Editorial: *Biotropica*, Subject Editor 2018-2023

Reviewer: Journals: *Biology Letters*, *Evolution*, *PLoS One*, *Molecular Ecology*, *Molecular Ecology Resources*, *Heredity*, *Journal of Heredity*, *Global Ecology and Biogeography*, *Biochemical Genetics*, *Herpetological Review*, *Royal Society Open Science*, *Biological Journal of the Linnean Society*, *Biotropica*, *Landscape Ecology*, *Amphibia-Reptilia*, *Conservation Genetics*, *Biodiversity and Conservation*, *Bulletin of the Southern California Academy of the Sciences*, *Zoosystema*, *Global Ecology and Conservation*, *Animal Conservation*, *Journal of Zoological Systematics*, *Diversity*, *Urban Naturalist*, *Scientific Reports*, *Systematic Biology*, *Urban Ecosystems*, *Ibis*, *Austral Ecology*, *Ecological Indicators*

Textbooks: *Analysis of Biological Data*

2024 Grants: NSF – Division of Environmental Biology *ad hoc* reviewer, NSF Panel Search Chair, Biology Department, Occidental College. Hired two new faculty members.

2023-2025 Board of Trustees Budget and Finance Committee, Occidental College. Faculty Representative.

2023-Present Subcommittee on Finance, Occidental College. Chair since Spring 2024.

2022-Present Budget and Strategic Advisory Committee, Occidental College

2022-2023 Integrated Strategic Plan Financial Working Group, Occidental College. Co-chair.

2021-2023 Integrated Strategic Plan Steering Committee, Occidental College.

- 2021-2022 Board of Trustees Buildings and Grounds Committee, Occidental College.
Faculty Representative.
- 2019-2020 Faculty Council, Occidental College.
- 2015-2017 Computer Science Minor Advisory Committee, Occidental College.
- 2015-2018 Public Health Minor Advisory Committee, Occidental College.
- 2016-Pres National Awards and Fellowships Committee, Occidental College.
- 2013-2014 Non-Tenure Track Faculty Committee, Occidental College.

FACULTY LEARNING COMMUNITIES

- 2019 Visual Information. *Participant*.
- 2016 Diversity in the STEM Classroom. *Designed and Co-chaired*.
- 2015 Teaching with Python. *Designed*.
- 2015 Incorporating GIS in the Curriculum. *Participant*.
- 2015 Application for Clickers in the Classroom. *Participant*.
- 2013 100-level Biology Courses. *Participant*.

WEBSITES DEVELOPED

Improving Inclusivity in STEM Disciplines www.ideal-stem.org

OUTREACH ACTIVITIES

Arroyos & Foothills Conservancy:

Advisor, 2017-present. Provide scientific consulting for conserving habitat in the greater Los Angeles area for urban wildlife, such as Mountain Lions. Organize and mentor Occidental interns that work with AFC doing both research and outreach in the community. Contribute to local outreach events, including an exhibit on urban wildlife at Descanso Gardens in Summer 2018.

Boundless Brilliance:

Treasurer Board of Directors, 2024-Present; President Board of Directors, 2018-2023; Student Organization Advisor, 2017-present. Organize and support a non-profit that is focused on bringing undergraduate student presenters into elementary school classrooms to encourage young women and underrepresented minorities to engage in STEM.

Kappa Kappa Gamma Fraternity:

Women's leadership fraternity. President of Pasadena Alumnae Association, 2014-2018. Fundraising and organization of Reading is Fundamental outreach activities in Pasadena. Board Member of Pasadena Alumnae Association, 2012-2019 Fundraising and organization of Reading is Fundamental outreach activities in Pasadena. Province Director of Chapters, 2007-2009. Mentoring and leadership education for undergraduate women at DePauw University, Indiana University, Purdue, and Butler. Advisor, 2004-2007. Advisor for undergraduate women at University of Michigan.