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EDUCATION

- 2018 Ph.D. in Earth Sciences and Environmental Sustainability, Northern Arizona University
Climate and Landscape Change Emphasis
- 2014 M.S. in Environmental Science, Brigham Young University
- 2005 B.S. in International Business Management, Brigham Young University Hawaii
Economics Minor, Summa Cum Laude



POSITIONS HELD

- 2025 Aug – Present Associate Professor. Landscape Ecology, Department of Wildlife Ecology and Conservation, University of Florida.
- 2024 Aug – 2025 Aug Associate Professor. Spatial Ecology, Department of Wildlife, California State Polytechnic University Humboldt.
- 2020 Aug – 2024 Aug Assistant Professor. Spatial Ecology, Department of Wildlife, California State Polytechnic University Humboldt.
- 2019 May – 2020 Aug Adjunct Professor. School of Earth and Sustainability, Northern Arizona University.
- 2020 May – 2020 Sep Research Scientist. Computational Ecology Lab, School of Public and Community Health Sciences, University of Montana.
- 2018 May – 2020 May Post-doctoral Research Associate. Computational Ecology Lab, School of Public and Community Health Sciences, University of Montana.
- 2014 Aug – 2020 Aug Research Affiliate. Center for Landscape Science, Rocky Mountain Research Station, U.S. Forest Service, Department of Agriculture.



PEER-REVIEWED PUBLICATIONS

= Lab graduate students, + = Lab undergraduate students

1. **Wan, H. Y.**, M. A. Lommler, S. A. Cushman, J. S. Sanderlin, J. L. Ganey, A. J. Sánchez Meador, and P. Beier. 2025. A multi-level, multi-scale comparison of LiDAR-and LANDSAT-based habitat selection models of Mexican

spotted owls in a post-fire landscape. *Ecological Informatics* 89:103168.

<https://doi.org/10.1016/j.ecoinf.2025.103168>

2. Bao, S., H. Zhu, P. Wester, W. Wang, Z. Li, B. Ren, D. Yan, and **H. Y. Wan**. 2025. Wild bees outperform managed bees in density-dependent pollination for alfalfa reproduction. *Agriculture, Ecosystems and Environment* 389:109693. <https://doi.org/10.1016/j.agee.2025.109693>
3. Li, Y., Z. Xia, L. Nguyen, **H. Y. Wan**, L. Wan, M. Wang, N. Jia, V. R. R. Matli, Y. Li, M. Seeley, E. F. Moran, and J. Liu. 2025. Spatiotemporal dynamics of coastal dead zones in the Gulf of Mexico over 20 years using remote sensing. *Science of The Total Environment* 979:179461. <https://doi.org/10.1016/j.scitotenv.2025.179461>
4. #Hysen, L., **H. Y. Wan**, P. Jantz, J. Gagnon, and S. A. Cushman. 2025. Variability in habitat selection between herds for a widespread ungulate. *Ecological Modelling* 501:110991. <https://doi.org/10.1016/j.ecolmodel.2024.110991>
5. Lichwa-Schneringer, E., J. W. Cain III, **H. Y. Wan**, G. Fuller, C. Millberry, and M. S. Gunther. 2025. Ecological and social drivers of Mexican wolf home range size across spatiotemporal scales. *Journal of Mammalogy* 106(1):105-117. <https://doi.org/10.1093/jmammal/gyae110>
6. #Beckdach, R. E., *K. Larson, *K. Crouch, E. Meisman, A. Goldman, C. L. Chambers, M. DeJong, V. Titus, M S. Gunther, and **H. Y. Wan**. 2024. A celebration and reflection on the equity trend between women and men in wildlife publishing. *Journal of Wildlife Management* 89(1):e22680. <https://doi.org/10.1002/jwmq.22680>
7. Martínez-Fonseca, J. G., E. P. Westeen, **H. Y. Wan**, S. A. Cushman, and C. L. Chambers. 2024. A global review of landscape-scale analyses in bats reveals geographic and taxonomic biases and opportunities for novel research. *Biological Conservation* 299:110829. <https://doi.org/10.1016/j.biocon.2024.110829>
8. Feng, Y., K. Zhang, A. Li, Y. Zhang, K. Wang, N. Guo, **H. Y. Wan**, X. Tan, N. Dong, X. Xu, R. He, B. Wang, L. Fan, S. Ge, and P. Song. 2024. Spatial and seasonal variation and the driving mechanism of the thermal effects of urban park green spaces in Zhengzhou, China. *Land* 13(9):1474. <https://doi.org/10.3390/land13091474>
9. #Nayeri, D., S. Cushman, J. Ganey, #L. Hysen, M. S. Gunther, D. Willey, and **H. Y. Wan**. 2024. Multiscale habitat suitability modeling for a threatened raptor offers insight into ecological model transferability. *Ecological Modelling* 496:110845. <https://doi.org/10.1016/j.ecolmodel.2024.110845>
10. Zauari, A. H., K. Z. Abidin, M. S. Mansor, **H. Y. Wan**, S. N. A. S. Abdullah, P. Abdul-Patah, and S. M. Nor. 2024. Identifying priority corridors and bottlenecks for three threatened large mammal species in the oil palm-dominated landscape of Peninsular Malaysia. *Global Ecology and Conservation* 54:e03092. <https://doi.org/10.1016/j.gecco.2024.e03092>
11. Eshtiaghi, A., S. Naderi, A. Mohammadi, and **H. Y. Wan**. 2024. Identifying wild boar (*Sus scrofa*) crop damage hotspots to mitigate human-wild boar conflicts in northern Iran. *Global Ecology and Conservation* 54:e03065. <https://doi.org/10.1016/j.gecco.2024.e03065>
12. Pan, G., **H. Y. Wan**, D. R. Nash, K. Shi, and S. Cushman. 2024. Snow leopards exhibit non-stationarity in scale-dependent habitat selection between two national protected areas in China. *Ecological Modelling* 494:110759. <https://doi.org/10.1016/j.ecolmodel.2024.110759>
13. Zhang, Y., Z. Ma, X. Li, J. Wu, Z. Li, Z. Yang, **H. Y. Wan**, D. Pan, S. Jiang, X. Yue, Y. Li, D. Wang, and J. Liu. 2024. Soil phosphorus availability is enhanced by nitrogen and litter addition during the growing season. *Plant and Soil*. <https://doi.org/10.1007/s11104-024-06660-4>
14. Sartor, C. C., S. A. Cushman, **H. Y. Wan**, F. P. Tirelli, S. L. Althoff, E. Eizirik, T. C. Trigo, and T. R. O. de Freitas. 2024. Prioritizing conservation areas to mitigate connectivity loss and local extinction risk of a small carnivore (*Leopardus guttulus*) in South America. *Biodiversity and Conservation* 33:1605-1622. <https://doi.org/10.1007/s10531-024-02817-w>

15. Cushman, S. A., K. Craighead, M. Yacelga, **H. Y. Wan**, Z. Kaszta, and D. W. Macdonald. 2023. Seventy-two models of large mammal connectivity across Panama: Insights into a critical biogeographic linkage zone. *Frontiers in Ecology and Evolution* 11:1250255. <https://doi.org/10.3389/fevo.2023.1250255>
16. Feizabadi, H. A., A. Mohammadi, G. Shahnasari, and **H. Y. Wan**. 2023. Comparing drivers and protection of core habitat and connectivity for two sympatric desert carnivores. *Global Ecology and Conservation* 48:e02696. <https://doi.org/10.1016/j.gecco.2023.e02696>
17. Rezaei, S., A. Mohammadi, S. Shadloo, M. Ranaie, and **H. Y. Wan**. 2023. Climate change induces habitat shifts and overlaps among carnivores in an arid and semi-arid ecosystem. *Ecological Informatics* 77:102247. <https://doi.org/10.1016/j.ecoinf.2023.102247>
18. Hassan, N., Z. Zhong, D. Wang, Y. Zhu, I. Naeen, A. B. Ahungu, **H. Y. Wan**, and X. Li. 2023. Effects of long-term mowing on species diversity, biomass, and composition of plant community in a semi-arid grassland in northeastern China. *Applied Vegetation Science* 26(3):e12743. <https://doi.org/10.1111/avsc.12743>
19. Wang, Z., Z. Zhong, J. Cahill, E. Holden, **H. Y. Wan**, #L. Hysen, Y. Gao, Z. Wang, O. Batlai, J. Cushman, D. Wang, and X. Li. 2023. Standing litter modifies top-down effects of large herbivores on a grassland plant community. *Ecosystems* 26:1784-1795. <https://doi.org/10.1007/s10021-023-00864-y>
20. #Hysen, L. B., S. A. Cushman, F. A. Fogarty, E. C. Kelly, #D. Nayeri, and **H. Y. Wan**. 2023. Northern spotted owl nesting habitat under high potential wildfire threats along the California Coastal Redwood Forest. *Science of The Total Environment* 890:163414. <https://doi.org/10.1016/j.scitotenv.2023.163414>
21. Sun, Y., X. Zhu, L. Sui, Z. Zhu, B. Ren, D. Pan, **H. Y. Wan**, and H. Zhu. 2023. Effects of water stress on plant volatile emission and insect oviposition preference in an agroecosystem. *Agricultural and Forest Entomology* 25(3):458-467. <https://doi.org/10.1111/afe.12567>
22. Dar, S. A., S. K. Singh, **H. Y. Wan**, S. A. Cushman, T. Bashir, and S. Sathyakumar. 2023. Future land use and climate change escalate connectivity loss for Himalayan brown bears. *Animal Conservation* 26(2):199-215. <https://doi.org/10.1111/acv.12813>
23. Khosravi, R., **H. Y. Wan**, M.-R. Sadeghi, and S. A. Cushman. 2023. Identifying human-brown bear conflict hotspots for prioritizing critical habitat and corridor conservation in southwestern Iran. *Animal Conservation* 26(1):31-45. <https://doi.org/10.1111/acv.12800>
24. Shirk, A. J., G. M. Jones, Z. Yang, R. J. Davis, J. L. Ganey, R. J. Gutiérrez, S. P. Healey, S. J. Hedwall, S. J. Hoagland, R. Maes, K. Malcolm, K. S. McKelvey, C. Vynne, J. S. Sanderlin, M. K. Schwartz, M. E. Seamans, **H. Y. Wan**, and S. A. Cushman. 2023. Automated habitat monitoring systems linked to adaptive management: a new paradigm for species conservation in an era of rapid environmental change. *Landscape Ecology* 38:7-22. <https://doi.org/10.1007/s10980-022-01457-1>
25. Jones, G. M., A. J. Shirk, Z. Yang, R. J. Davis, J. L. Ganey, R. J. Gutiérrez, S. P. Healey, S. J. Hedwall, S. J. Hoagland, R. Maes, K. Malcolm, K. S. McKelvey, J. S. Sanderlin, M. K. Schwartz, M. E. Seamans, **H. Y. Wan**, and S. A. Cushman. 2023. Spatial and temporal dynamics of Mexican spotted owl habitat in the southwestern US. *Landscape Ecology* 38:23-37. <https://doi.org/10.1007/s10980-022-01418-8>
26. #Hysen, L., #D. Nayeri, S. A. Cushman, and **H. Y. Wan**. 2022. Background sampling for multi-scale ensemble habitat selection modeling: does the number of points matter? *Ecological Informatics* 72(2022):101914. <https://doi.org/10.1016/j.ecoinf.2022.101914>
27. Sartor, C. C., **H. Y. Wan**, J. A. Pereira, E. Eizirik, T. C. Trigo, T. R. O. de Freitas, and S. A. Cushman. 2022. Landscape genetics outperforms habitat suitability in predicting landscape resistance for congeneric cat species. *Journal of Biogeography* 49(12):2206-2217. <https://doi.org/10.1111/jbi.14498>

28. #Nayeri, D., A. Mohammadi, #L. Hysen, D. Hipólito, D. Huber, and **H. Y. Wan**. 2022. Identifying human-caused mortality hotspots to inform human-wildlife conflict mitigation. *Global Ecology and Conservation* 38(2022): e02241. <https://doi.org/10.1016/j.gecco.2022.e02241>
29. Wang, G., S. A. Cushman, **H. Y. Wan**, M. Liu, and S. Jombach. 2022. Comparison of least-cost path and UNICOR cumulative resistant kernel analyses in mapping ecological connectivity networks in Luohe region, China. *Journal of Digital Landscape Architecture* 7:176-190. <https://doi.org/10.14627/537724018>
30. Khosravi, R., H. R. Pourghasemi, R. Adavoudi, L. Julaie, and **H. Y. Wan**. 2022. A spatially-explicit analytical framework to assess wildfire risks on brown bear habitat and corridors in protected areas. *Fire Ecology* 18:1. <https://doi.org/10.1186/s42408-021-00125-0>
31. Mohammadi, A., K. Almasieh, #D. Nayeri, M. A. Adibi, and **H. Y. Wan**. 2022. Comparison of habitat suitability and connectivity modelling for three carnivores of conservation concern in an Iranian montane landscape. *Landscape Ecology* 37:411–430. <https://doi.org/10.1007/s10980-021-01386-5>
32. Craighead, K., M. Yacelga, **H. Y. Wan**, R. Vogt, and S. A. Cushman. 2022. Scale-dependent seasonal habitat selection by jaguars (*Panthera onca*) and pumas (*Puma concolor*) in Panama. *Landscape Ecology* 37:129–146. <https://doi.org/10.1007/s10980-021-01335-2>
33. López-Márquez, V., S. A. Cushman, J. Templado, **H. Y. Wan**, H. M. Bothwell, and A. Machordom. 2021. Genetic connectivity of two marine gastropods in the Mediterranean Sea: seascape genetics reveals species-specific oceanographic drivers of gene flow. *Molecular Ecology* 30(19):4608-4629. <https://doi.org/10.1111/mec.16080>
34. Zeller, K. A., C. A. Schroeder, **H. Y. Wan**, G. Collins, K. Denryter, A. F. Jakes, and S. A. Cushman. 2021. Forecasting habitat and connectivity for pronghorn across the Great Basin ecoregion. *Diversity and Distributions* 27(12):2315-2329. <https://doi.org/10.1111/ddi.13402>
35. Dar, S. A., S. K. Singh, **H. Y. Wan**, V. Kumar, S. A. Cushman, and S. Sathyakumar. 2021. Projected climate change threatens Himalayan brown bear habitat more than human land use. *Animal Conservation* 24(4):659-676. <https://doi.org/10.1111/acv.12671>
36. Mohammadi, A., K. Almasieh, **H. Y. Wan**, #D. Nayeri, A. Alambeigi, J. Ransom, and S. A. Cushman. 2021. Integrating Spatial Analysis and Questionnaire Survey to Better Understand Human-Onager Conflict in Southern Iran. *Scientific Reports* 11:12423. <https://doi.org/10.1038/s41598-021-91921-w>
37. Lucid, M., **H. Y. Wan**, S. Ehlers, L. Robinson, L. Svancara, A. Shirk, and S. Cushman. 2021. Land Snail Microclimate Niches Identify Suitable Areas for Climate Refugia Management on a Montane Landscape. *Ecological Indicators* 129:107885. <https://doi.org/10.1016/j.ecolind.2021.107885>
38. Chiaverini, L., **H. Y. Wan**, B. Hahn, A. Cilimburg, T. N. Wasserman, and S. A. Cushman. 2021. Effects of non-representative sampling design on multi-scale habitat models: flammulated owls in the Rocky Mountains. *Ecological Modelling* 450:109566. <https://doi.org/10.1016/j.ecolmodel.2021.109566>
39. Sartor, C., S. A. Cushman, **H. Y. Wan**, R. Kretschmer, J. A. Pereira, N. Bou, M. Cosse, S. González, E. Eizirik, T. R. O. de Freitas, and T. C. Trigo. 2021. The role of the environment in the spatial dynamics of an extensive hybrid zone between two Neotropical cats. *Journal of Evolutionary Biology* 34 (4):614-627. <https://doi.org/10.1111/jeb.13761>
40. Bosco, L., S. A. Cushman, **H. Y. Wan**, K. A. Zeller, R. Arlettaz, and A. Jacot. 2021. Fragmentation effects on woodlark habitat selection depend on habitat amount and spatial scale. *Animal Conservation* 24(1):84-94. <https://doi.org/10.1111/acv.12604>
41. Li, X., S. Wang, C. Prather, **H. Y. Wan**, H. Zhu, P. Nummi, M. Inbar, Q. Gao, D. Wang, and Z. Zhong. 2021. Large herbivores facilitate an insect herbivore by modifying plant community composition in a temperate grassland. *Ecology and Evolution* 11(22):16314-16326. <https://doi.org/10.1002/ece3.8327>

42. Wang, G., S. A. Cushman, **H. Y. Wan**, H. Li, Z. Szabó, D. Ning, and S. Jombach. 2021. Ecological Connectivity Networks for Multi-dispersal Scenarios Using UNICOR Analysis in Luohe Region, China. *Journal of Digital Landscape Architecture* 6:230-244. <http://doi.org/10.14627/537705020>
43. **Wan, H. Y.**, S. A. Cushman, and J. L. Ganey. 2020. The effect of scale in quantifying fire impacts on species habitats. *Fire Ecology* 16:9. <https://doi.org/10.1186/s42408-020-0068-2>
44. Ashrafzadeh, M. R., R. Khosravi, M. A. Adibi, A. T. Tehrani, **H. Y. Wan**, and S. A. Cushman. 2020. A multi-scale, multi-species approach for assessing effectiveness of habitat and connectivity conservation for endangered felids. *Biological Conservation* 245:108523. <http://doi.org/10.1016/j.biocon.2020.108523>
45. Jones, G. M., R. J. Gutiérrez, W. M. Block, P. C. Carlson, E. J. Comfort, S. A. Cushman, R. J. Davis, S. A. Eyes, A. B. Franklin, J. L. Ganey, S. Hedwall, J. J. Keane, R. Kelsey, D. Lesmeister, M. P. North, S. L. Roberts, J. T. Rockweit, J. S. Sanderlin, S. C. Sawyer, B. Solvesky, D. J. Tempel, **H. Y. Wan**, A. L. Westerling, G. C. White, and M. Z. Peery. 2020. Spotted owls and forest fire: Comment. *Ecosphere* 11(12):e03312. <https://doi.org/10.1002/ecs2.3312>
46. **Wan, H. Y.**, S. A. Cushman, and J. L. Ganey. 2019. Improving habitat and connectivity model predictions with multi-scale resource selection functions from two geographic areas. *Landscape Ecology* 34(3):503-519. <https://doi.org/10.1007/s10980-019-00788-w>
47. **Wan, H. Y.**, S. A. Cushman, and J. L. Ganey. 2019. Recent and projected future wildfire trends across the ranges of three spotted owl subspecies under climate change. *Frontiers in Ecology and Evolution* 7:37. <https://doi.org/10.3389/fevo.2019.00037>
48. Bosco, L., **H. Y. Wan**, S. A. Cushman, R. Arlettaz, and A. Jacot. 2019. Separating the effects of habitat amount and fragmentation on invertebrate abundance using a multi-scale framework. *Landscape Ecology* 34(1):105-117. <https://doi.org/10.1007/s10980-018-0748-3>
49. López-Márquez, V., S. A. Cushman, J. Templado, **H. Y. Wan**, H. Bothwell, C. Kruschel, V. Macic, and A. Machordom. 2019. Seascape genetics and connectivity modelling for an endangered Mediterranean coral in the Adriatic Sea. *Landscape Ecology* 34(11):2649–2668. <https://doi.org/10.1007/s10980-019-00911-x>
50. Kapsar, K. E., C. Hovis, R. F. B. da Silva, E. K. Buchholtz, A. K. Carlson, Y. Dou, Y. Du, P. R. Furumo, Y. Li, A. Torres, D. Yang, **H. Y. Wan**, J. G. Zaehring, and J. Liu. 2019. Telecoupling research: the first five years. *Sustainability* 11(4):1033. <https://doi.org/10.3390/su11041033>
51. Yang, D., **H. Y. Wan**, T. Huang, and J. Liu. 2019. The role of citizen science in conservation under the telecoupling framework. *Sustainability* 11(4):1108. <https://doi.org/10.3390/su11041108>
52. **Wan, H. Y.**, J. L. Ganey, and S. A. Cushman. 2018. Habitat fragmentation reduces genetic diversity and connectivity of the Mexican spotted owl: a simulation study using empirical resistance models. *Genes* 9(8):403. <https://doi.org/10.3390/genes9080403>
53. **Wan, H. Y.**, J. L. Ganey, C. D. Vojta, and S. A. Cushman. 2018. Managing emerging threats to spotted owls. *Journal of Wildlife Management* 82(4):682-697. <https://doi.org/10.1002/jwmq.21423>
54. Littell, J. S., D. McKenzie, **H. Y. Wan**, and S. A. Cushman. 2018. Climate change and future wildfire in the western United States: an ecological approach to nonstationarity. *Earth's Future* 6(8):1097-1111. <https://doi.org/10.1029/2018EF000878>
55. **Wan, H. Y.**, K. McGarigal, J. L. Ganey, V. Lauret, B. C. Timm, and S. A. Cushman. 2017. Meta-replication reveals non-stationarity in multi-scale habitat selection of Mexican spotted owl. *Condor* 119(4):641-658. <https://doi.org/10.1650/CONDOR-17-32.1>
56. Ganey, S. A., **H. Y. Wan**, S. A. Cushman, and C. D. Vojta. 2017. Conflicting perspectives on spotted owls, wildfire, and forest restoration. *Fire Ecology* 13(3):146-165. <https://doi.org/10.4996/fireecology.130318020>

57. Rhodes, A. C, **H. Y. Wan**, and S. B. St. Clair. 2017. Herbivory impacts of elk, deer and cattle on aspen forest recruitment along gradients of stand composition, topography and climate. *Forest Ecology and Management* 397:39-47. <https://doi.org/10.1016/j.foreco.2017.04.014>
58. McGarigal, K., **H. Y. Wan**, K. A. Zeller, B. C. Timm, and S. A. Cushman. 2016. Multi-scale habitat modeling: a review and outlook. *Landscape Ecology* 31(6):1161-1175. <https://doi.org/10.1007/s10980-016-0374-x>
59. **Wan, H. Y.**, A. C. Rhodes, and S. B. St. Clair. 2014. Fire severity alters plant regeneration patterns and defense against herbivores in mixed aspen forests. *Oikos* 123:1479-1488. <https://doi.org/10.1111/oik.01521>
60. **Wan, H. Y.**, A. C. Olson, K. D. Muncey, and S. B. St. Clair. 2014. Legacy effects of fire size and severity on forest regeneration, recruitment, and wildlife activity in aspen forests. *Forest Ecology and Management* 329:59-68. <https://doi.org/10.1016/j.foreco.2014.06.006>



OTHER PUBLICATIONS / PRODUCTS

1. Cramer, P., J. E. Cartron, K. C. Calhoun, J. W. Gagnon, M. B. Haverland, M. L. Watson, S. A. Cushman, **H. Y. Wan**, J. A. Kutz, J. N. Romero, T. J. Brennan, J. A. Walther, C. D. Loberger, H. P. Nelson, T. D. Botkin, and J. G. Hirsch. 2022. Final New Mexico Wildlife Corridors Action Plan (NMWCAP). New Mexico Department of Transportation and New Mexico Department of Game and Fish. <https://wildlifeactionplan.nm.gov/projects.org/>
2. Hart, M., M. Johnson, J. Mitchell, R. Rock, E. Shafron, C. Tobalske, S. Banad, M. Blair, I. Borokini, N. Burgos, P. Burns, N. Chardon, P. Copenhagen-Parry, K. Easterday, X. Feng, M. Fitzpatrick, B. Gerstner, R. Goljani-Amirkhiz, C. Hakkenberg, T. Howard, P. Jantz, C. Jarnevich, A. Kumar, Z. Liu, E. C. Martin, C. Merow, E. Nielsen, G. Rapacciuolo, S. Roy, S. Rush, L. Schwizer, A. B. Smith, **H. Y. Wan**, and L. Zhai. 2022. Recommendation Report: Broadening the Use of NASA Datasets by the Species Distribution Modeling (SDM) Community. https://drive.google.com/file/d/1GrDlfl3VUv0NXEft973zBFHx6IG_1s/view
3. **Wan, H. Y.** 2022. The President's message – Winter edition. *The Arizona Wildlifer* 2022(1):1-2.
4. Cramer, P., J. E. Cartron, K. C. Calhoun, J. W. Gagnon, M. B. Haverland, M. L. Watson, S. A. Cushman, **H. Y. Wan**, J. A. Kutz, J. N. Romero, T. J. Brennan, J. A. Walther, C. D. Loberger, H. P. Nelson, T. D. Botkin, and J. G. Hirsch. 2021. Draft New Mexico Wildlife Corridors Action Plan (NMWCAP). New Mexico Department of Transportation and New Mexico Department of Game and Fish. [doi: 10.13140/RG.2.2.11565.15840](https://doi.org/10.13140/RG.2.2.11565.15840)
5. **Wan, H. Y.** 2021. The President's message – Fall edition. *The Arizona Wildlifer* 2021(4):1-2.
6. **Wan, H. Y.** 2021. The President's message – Summer edition. *The Arizona Wildlifer* 2021(3):1-2.
7. **Wan, H. Y.** 2021. The President's message – Spring edition. *The Arizona Wildlifer* 2021(2):1-3.
8. Jones, G., S. A. Cushman, Z. Yang, R. Davis, C. Witt, S. J. Hoagland, S. P. Healey, J. L. Ganey, J. S. Sanderlin, R. Maes, R. J. Gutiérrez, **H. Y. Wan**, A. Shirk, and S. Hedwall. 2020. The "living map" of Mexican spotted owl habitat. <https://www.fs.usda.gov/rmrs/projects/living-map-mexican-spotted-owl-habitat>
9. Cushman, S. A., J. L. Ganey, G. Jones, **H. Y. Wan**, K. Malcolm, and S. Hedwall. 2020. Through the smoke: spotted owls, wildfire, and forest restoration. *USDA Rocky Mountain Research Station: Science You Can Use Bulletin* 1(46):1-9. <https://www.fs.usda.gov/rmrs/documents-and-media/through-smoke-spotted-owls-wildfire-and-forest-restoration>
10. **Wan, H. Y.**, S. A. Cushman, A. F. Jakes, and E. L. Landguth. 2018. Final Report: New Mexico Wildlife Habitat Linkage Assessment – Pronghorn. [doi:10.13140/RG.2.2.24915.43044](https://doi.org/10.13140/RG.2.2.24915.43044)
11. **Wan, H. Y.**, S. A. Cushman, and E. L. Landguth. 2018. Final Report: New Mexico Wildlife Habitat Linkage Assessment. [doi:10.13140/RG.2.2.18204.54408](https://doi.org/10.13140/RG.2.2.18204.54408)

12. **Wan, H. Y.** 2018. Habitat, Connectivity, and Gene Flow of Mexican Spotted Owl in Southwestern Forests. Ph.D. Dissertation, Northern Arizona University, Flagstaff, AZ.
13. **Wan, H. Y.** 2014. Fire Severity and Size Alter Quaking Aspen (*Populus tremuloides*) Regeneration and Defense Against Ungulate Herbivory. M.S. Thesis, Brigham Young University, Provo, UT.



PRESENTATIONS (*invited)

* = Invited, # = Graduate lab students, + = Undergraduate lab students

Oral presentations

1. # Verhey, A. Z., S. A. Dar, T. Bashir, M. N. Awan, and **H. Y. Wan**. 2025. Applying deep neural networks to model the distribution of a declining western Himalayan ungulate. North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2025 Annual Meeting. Raleigh, NC.
2. #Beckdach, R., K. Craighead, and **H. Y. Wan**. 2025. Jaguar population status and conservation needs in Panama revealed using spatial density and occupancy models. North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2025 Annual Meeting. Raleigh, NC.
3. Hysen, L., H. Cao, J. Huang, N. Jia, N. Manning, M. Remer, J. Van Zeghbroeck, S. Waloven, **H. Y. Wan**, and Jianguo Liu. 2025. The first decade of telecoupling research: key advances and future directions. North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2025 Annual Meeting. Raleigh, NC.
4. ***Wan, H. Y.** 2025. Connecting humans, wildlife, and changing landscapes through the lens of multi-scale analysis. University of Florida, Gainesville, FL.
5. **Wan, H. Y.**, M. A. Lommler, S. A. Cushman, J. L. Ganey, A. J. Sanchez-Meador, J. Sanderlin, and P. Beier. 2024. Comparing LiDAR- and Landsat-based multi-scale habitat selection models to assess long-term fire effects on Mexican spotted owls. North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2024 Annual Meeting. Oklahoma City, OK.
6. #Collier, C., A. Roddy, K. Moriarty, **H. Y. Wan**, and M. S. Gunther. 2024. Pacific marten and fire. Humboldt Marten Working Group. 2024 Annual Meeting, The Wildlife Society – Western Section, Sonoma County, CA.
7. ****Rodriguez, J.**, and **H. Y. Wan**. 2024. Soaring the skies: Home range analysis on previously released California condors. Arcata Natural History Museum, Arcata, CA.
8. **Wan, H. Y.**, #L. Hysen, and S. Cushman. 2023. Simulating the impact of barred owl on the connectivity of the northern spotted owl along the Northern California Coastal Forests. North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2023 Annual Meeting. Riverside, CA.
9. #Hysen, L. B., #D. Nayeri, S. A. Cushman, and **H. Y. Wan**. 2023. Which background sampling strategy should be used for multiscale ensemble habitat selection modeling? North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2023 Annual Meeting. Riverside, CA.
10. #Nayeri, D., #L. B. Hysen, D. Willey, J. L. Ganey, S. A. Cushman, and **H. Y. Wan**. 2023. Characterizing bimodal habitat selection of the Mexican spotted owl with multiscale ensemble modeling. North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2023 Annual Meeting. Riverside, CA.
11. ***Wan, H. Y.** 2022. Active Inclusion: A Multi-level Problem. School of Forestry Seminar Series, Northern Arizona University, Flagstaff, AZ.
12. ***Wan, H. Y.** 2022. A goal in mind: how to foster an inclusive mindset? Conservation Unlimited Talk, TWS Student Chapter, Cal Poly Humboldt, Arcata, CA.
13. ****Rodriguez, J.**, and **H. Y. Wan**. 2022. Soaring the skies: Home range analysis on previously released California condors. EcoSeries Seminar, Humboldt State University, Arcata, CA.

14. #Hysen, L. B., #D. Nayeri, J. L. Ganey, S. A. Cushman, and **H. Y. Wan**. 2022. Using multi-scale optimization models to identify differences in habitat selection between two owls. North American Congress for Conservation Biology (NACCB) 2022, Reno, NV.
15. #Nayeri, D., #L. B. Hysen, D. Willey, J. L. Ganey, S. A. Cushman, and **H. Y. Wan**. 2022. Unraveling optimal scales and habitat covariates of Mexican spotted owl habitat selection between two different landscapes. North American Congress for Conservation Biology (NACCB) 2022, Reno, NV.
16. #Hysen, L. B., #D. Nayeri, S. A. Cushman, J. L. Ganey, and **H. Y. Wan**. 2022. A tale of two owls: using multi-scale optimization models to identify nuances in habitat selection between two owl subspecies. North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2022 Annual Meeting.
17. #Nayeri, D., #L. B. Hysen, D. Willey, J. L. Ganey, S. A. Cushman, and **H. Y. Wan**. 2022. One species, two worlds: identifying habitat covariates and optimal scales of Mexican spotted owl habitat selection between canyonland and forest habitats. North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2022 Annual Meeting.
18. Dar, S. A., S. K. Singh, **H. Y. Wan**, and S. A. Cushman. 2022. Using scenario modeling to disentangle effects of land use change and climate change on future connectivity loss. North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2022 Annual Meeting.
19. ***Wan, H. Y.** 2022. We are all connected: understanding the importance of connectivity conservation and management. Sequoia Park Zoo Conservation Lecture Series, Sequoia Park Zoo, Eureka, CA.
20. ***Wan, H. Y.** 2022. Plenary speaker. Plenary session. The right mindset: building an inclusive culture. 55th Joint Annual Meeting of the Arizona/New Mexico Chapters of the Wildlife Society and Arizona/New Mexico Chapters of the American Fisheries Society.
21. Wang, G., S. A. Cushman, **H. Y. Wan**, M. Liu, and S. Jombach. 2022. Comparison of simulated ecological networks of the year 2006, 2012 and 2018 in Budapest region, Hungary. 7th Fábos Conference on Landscape and Greenway Planning, Budapest, Hungary.
22. ***Wan, H. Y.** 2021. Panelist. Panel discussion: the diverse paths to a wildlife career. The Wildlife Society's 28th Annual Conference.
23. ***Wan, H. Y.** 2021. Ecological Connectivity Networks Analysis for human-environment. 2nd International Academic Forum on the Sustainable Development of Green Residential Environment and Carbon Neutrality under the "Belt and Road" Strategy, Zhengzhou, Henan, China.
24. Cramer, P., J. Cartron, K. Calhoun, J. Kutz, J. Hirsch, M. Haverland, M. Watson, J. Gagnon, C. Loberger, H. Nelson, J. Walther, T. Brennan, S. Cushman, **H. Y. Wan**, and J. Romero. 2021. The New Mexico wildlife corridors action plan: a model for other states. The Wildlife Society's 28th Annual Conference.
25. ***Wan, H. Y.** 2021. Research highlights TED talk. 10th Annual Principal Investigators (PI) Research Celebration, HSU Sponsored Programs Foundation.
26. ***Wan, H. Y.** 2021. Diversity, equity, and inclusion in wildlife sciences. Wildlife Graduate Student Society (WiGSS) EcoSeries Seminar, Humboldt State University, Arcata, CA.
27. Sartor, C., S. Cushman, **H. Y. Wan**, E. Eizirik, T. Trigo, and T. R. O. Freitas. 2021. Predicting landscape connectivity and prioritizing conservation areas for a small carnivore in South America. 100th Annual Meeting of the American Society of Mammalogists.
28. Zeller, K., S. A., Cushman, and **H. Y. Wan**. 2021. Modeling current and future habitat networks for pronghorn in the Great Basin ecoregion. North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2021 Annual Meeting, Reno, NV.
29. Sartor, C. C., **H. Y. Wan**, E. Eizirik, T. C. Trigo, T. R. O. de Freitas, and S. A. Cushman. 2021. Landscape Effects in Neotropical Cats' Gene Flow: Comparing Different Methods in Predicting Landscape Resistance. North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2021 Annual Meeting, Reno, NV.
30. Martínez-Fonseca, J. G., **H. Y. Wan**, S. L. Cushman, and C. L. Chambers. 2021. Bats and habitat fragmentation in Nicaragua: A country-wide multi-scale landscape analysis. North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2021 Annual Meeting, Reno, NV.

31. Wang, G., S. A. Cushman, **H. Y. Wan**, H. Li, Z. Szabó, D. Ning, and S. Jombach. 2021. Ecological Connectivity Networks for Multi-dispersal Scenarios using UNICOR Analysis in Luohe Region, China. Digital Landscape Architecture Conference DLA 2021, Dessau-Köthen-Bernburg, Germany.
32. ***Wan, H. Y.** 2020. Reconsidering scale in understanding spotted owls, habitat, and fire. Wildlife Research Seminar, Department of Wildlife, Humboldt State University, Arcata, CA.
33. **Wan, H. Y.** 2020. A multi-scale method for assessing fire effects on wildlife habitat. 105th Annual Meeting, Ecological Society of America, Salt Lake City, UT.
34. Chambers, C. L., and **H. Y. Wan**. 2020. How far do bats take it? A review of home range studies. The 53rd Joint Annual Meeting of AZ/NM Chapters of The Wildlife Society, Prescott, AZ.
35. Martinez-Fonseca, J. G., R. Blackburn, C. Winterbottom, C. Chambers, and **H. Y. Wan**. 2020. Illuminating knowledge gaps: effects of artificial lights on bats. The 53rd Joint Annual Meeting of AZ/NM Chapters of The Wildlife Society, Prescott, AZ.
36. ***Wan, H. Y.** 2019. Panel speaker. Panel: Federal agency assessments of wildlife corridors. 2019 Upper Rio Grande Wildlife Corridors Summit, Taos, NM.
37. ***Wan, H. Y.** 2019. Workshop presenter. Landscape Science for Shared Stewardship – Landscape Ecology, FRAGSTATS, multi-scale habitat modeling, and connectivity modeling training workshop for Region 4, USDA Forest Service Intermountain Regional Office, Ogden, UT.
38. ***Wan, H. Y.** 2019. Modeling fire trends within the range of the spotted owl. Symposium: Frontiers of wildfire on the Colorado Plateau: ecology, management, society. 15th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region, Flagstaff, AZ.
39. ***Wan, H. Y.**, and S.A. Cushman. 2019. Integrating modeling, informatics and experiments to guide macrosystems ecology research. 12th North American Forest Ecology Workshop – Forest on the edge: forest ecology in rapidly changing conditions, Flagstaff, AZ.
40. **Wan, H. Y.**, S. A. Cushman, and J. L. Ganey. 2019. Interaction of Fire, Climate, and Multiscale Habitat Selection of Spotted Owls: Past, Present, and Future. U.S. Regional Association of the International Association for Landscape Ecology (US-IALE) 2019 Annual Meeting, Fort Collins, CO.
41. Waring, K. M., S. Cushman, A. Eckert, L. Flores-Renteria, R. Snieszko, C. Still, C. Wehenkel, A. Whipple, M. Wing, J. Bagley, E. Bucholz, S. Gonzalez-Elizondo, J. Hartsell, C. Garms, E. Heck, J. Johnson, E. Landguth, A. Leal Sáenz, M. Menon, E. Moler, G. Page, J. Shaw, A. Shirk, J. Swenson, and **H. Y. Wan**. 2019. Using interdisciplinary research across scales to manage for healthy species and forests. 12th North American Forest Ecology Workshop, Flagstaff, AZ.
42. Losee, M., K. Jacobson, K. McCarty, K. Licence, S. A., Cushman, and **H. Y. Wan**. 2019. Multi-scale habitat suitability model for Golden Eagles (*Aquila chrysaetos*) in Arizona. Raptor Research Foundation Conference, Fort Collins, CO.
43. Losee, M., K. Jacobson, K. McCarty, K. Licence, S. A., Cushman, and **H. Y. Wan**. 2019. A multi-scale framework for assessing risk of wind energy development on avian species using random forests. Arizona Field Ornithologists Annual Meeting, Flagstaff, AZ.
44. **Wan, H. Y.**, and S. A. Cushman. 2018. A multi-scale modeling framework for landscape-level assessment of core habitats, connectivity, and gene flow of rare species. U.S. Regional Association of the International Association for Landscape Ecology (US-IALE) 2018 Annual Meeting, Chicago, IL.
45. **Wan, H. Y.** 2018. Predicting habitat suitability, connectivity corridor, and gene flow of the Mexican spotted owl. 51st Joint Annual Meeting of the Arizona/New Mexico Chapters of the Wildlife Society and Arizona/New Mexico Chapters of the American Fisheries Society, Flagstaff, AZ.
46. Bosco, L., S. A. Cushman, **H. Y. Wan**, R. Arlettaz, and A. Jacot. 2018. Effects of habitat quality and fragmentation on woodlarks (*Lullula arborea*) and their invertebrate prey in intensively managed vineyards. 17th European Conference on Computational Biology, Athens, Greece. doi: 10.17011/conference/eccb2018/107251
47. ***Wan, H. Y.**, and S. A. Cushman. 2017. Using simulation modeling to predict population connectivity and gene flow of Mexican spotted owl in the Southwest. Symposium: Using genetics to inform wildlife conservation, management,

- and disease. 14th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region, Flagstaff, AZ.
48. ***Wan, H. Y.**, and S. A. Cushman. 2017. A multi-scale optimization modeling framework for analyzing non-stationary species-habitat relationships: the Mexican spotted owl in Arizona and New Mexico as an example. Symposium: Ecological modeling to inform management decisions. 14th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region, Flagstaff, AZ.
 49. *Littell, J., D. McKenzie, S. Cushman, **H. Y. Wan**, and D.L. Peterson. 2017. Drought and fire: Ecohydrologic controls on future fire regimes in the West. 67th Western Forest Insect Work Conference, Jackson Hole, WY.
 50. *Ganey, J. L., M. L. Lommler, P. Beier, **H. Y. Wan**, S.A. Cushman, and C.D. Vojta. 2017. Conflicting perspectives on Mexican spotted owls, wildfire, and forest restoration. Information session preceding settlement talks - lawsuit by Wild Earth Guardians vs U.S. Forest Service and U.S. Fish and Wildlife Service, Albuquerque, NM.
 51. ***Wan, H. Y.** 2016. Multi-scale modeling of Mexican spotted owl habitat relationships in Arizona and New Mexico. Grand Canyon National Park Service, Grand Canyon, AZ.
 52. ***Wan, H. Y.** 2016. Extending multi-scale habitat modeling to Sacramento Mountains New Mexico, and overview of planned simulation modeling. Mexican Spotted Owl Research and Monitoring Workshop Organized by the 4FRI Multi-Party Monitoring Board, Flagstaff, AZ.
 53. St. Clair, S. B., A. C. Rhodes, and **H. Y. Wan**. 2016. Indirect effects of climate on regeneration of aspen forests mediated through ungulate herbivory and wildfire. Restoring the West Conference, Utah State University, Logan, UT.
 54. **Wan, H. Y.**, T. D. Sisk, R. L. and Sanford, Jr. 2015. Overgrazing by bison destabilizes soil and diminishes plant growth in Grand Canyon National Park. 13th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region, Flagstaff, AZ.
 55. ***Wan, H. Y.**, and S. B. St. Clair. 2014. Fire modifies herbivory patterns in forests of western North America. 62nd Western International Forest Disease Work Conference, Cedar City, UT.
 56. **Wan, H. Y.**, A. C. Rhodes, and S. B. St. Clair. 2013. High severity burn increases post-fire resistance and resilience of aspen forest against ungulate herbivory. 98th Annual Meeting, Ecological Society of America, Minneapolis, MN.
 57. **Wan, H. Y.**, and S. B. St. Clair. 2013. Long-term effects of fire size and severity on forests regeneration in the Intermountain West. Graduate Research Conclave, Department of Plant and Wildlife Sciences, Brigham Young University, Provo, UT.
 58. Rhodes, A. C., **H. Y. Wan**, and S. B. St. Clair. 2013. Herbivory by mule deer and cattle suppress aspen basal shoot height; threatening aspen stand resilience across three National Forests. 98th Annual Meeting, Ecological Society of America, Minneapolis, MN.
 59. **Wan, H. Y.**, S. G. Kitchen, S. L. Petersen, and S. B. St. Clair. 2013. The effects of fire severity on tolerance and resistance of aspen against ungulate herbivory. 97th Annual Meeting, Ecological Society of America, Portland, OR.
 60. **Wan, H. Y.**, and S. B. St. Clair. 2012. Effects of fire severity on plant tolerance and resistance against ungulate herbivory. Graduate Research Conclave, Department of Plant and Wildlife Sciences, Brigham Young University, Provo, UT.
 61. **Wan, H. Y.**, and S. B. St. Clair. 2012. Fire effects on Aspen-elk Interaction in Utah. Utah Division of Wildlife Resources Coordination Meeting, Provo, UT.

Poster presentations

1. *Meng, D., R. Brown, and **H. Y. Wan**. 2025. Evaluating Samsung SmartTags as a Low-Cost Wildlife Tracking Tool. IdeaFest, Cal Poly Humboldt, Arcata, CA.
2. *Piper, C., **H. Y. Wan**, and F. A. Fogarty. 2024. To migrate or not to migrate? Drivers of partial migration: a case study of Lewis's Woodpeckers (*Melanerpes lewis*). 142nd Annual Meeting of the American Ornithological Society (AOS), Estes Park, CO.
3. *Beckdach, R., **H. Y. Wan**, and K. Craighead. 2024. Jaguar (*Panthera onca*) population density in Panama, an understudied and critical area within the jaguar range. North American Regional Association of the International Association for Landscape Ecology (IALE-NA) 2024 Annual Meeting. Oklahoma City, OK.

4. #Becdach, R., **H. Y. Wan**, and K. Craighead. 2024. Jaguar (*Panthera onca*) population density in Panama, an understudied and critical area within the jaguar range. 2024 Annual Meeting, The Wildlife Society – Western Section, Sonoma County, CA.
5. #Collier, C., A. Roddy, K. Moriarty, **H. Y. Wan**, and M. S. Gunther. 2024. Mesocarnivore use of a post-fire landscape: impacts of the Dixie Fire in Lassen and Plumas National Forests, California. 2024 Annual Meeting, The Wildlife Society – Western Section, Sonoma County, CA.
6. #Becdach R. E., *K. Larson, *K. Crouch, E. Meisman, A. Goldman, C. L. Chambers, M. DeJong, C. Edgeley, V. Titus, M. S. Gunther, and **H. Y. Wan**. 2023. A celebration and reflection on gender equity trend in wildlife publishing: 22 years of census in the Journal of Wildlife Management. SACNAS National Diversity in STEM Conference, Portland, OR.
7. #Becdach, R. E., *K. Crouch, E. Meisman, *K. Larson, A. Goldman, C. Chambers, M. DeJong, V. Titus, C. Edgeley, M. S. Gunther, and **H. Y. Wan**. 2023. Gender equity and inclusion in wildlife sciences. 2023 Annual Meeting, The Wildlife Society – Western Section, Riverside, CA.
8. *Rodriguez, J., and **H. Y. Wan**. 2022. Soaring the skies: Home range analysis on previously released California condors. IdeaFest, Humboldt State University, Arcata, CA. **[Runner-up for Best Poster]**
9. Yang, D., **H. Y. Wan**, T. Huang, and P. Gao. 2021. Leveraging citizen science and earth observation for monarch butterfly conservation. AGU Fall Meeting, American Geophysical Union.
10. Martinez-Fonseca, J. G., **H. Y. Wan**, S.A. Cushman, A. Fitoria-Medina, and C. L. Chambers. 2021. Bats and habitat fragmentation in Nicaragua: a country-wide multi-scale analysis. The Wildlife Society's 28th Annual Conference.
11. Waring, K., S. Cushman, A. Eckert, L. Flores-Rentería, R. Snieszko, C. Still, C. Wehenkel, A. Whipple, M. Wing, J. Bagley, E. Boes, E. Bucholz, J. Burnett, A. Castilla, M. Haagsma, J. Hartsell, C. Garms, B. Goodrich, E. Heck, J. Johnson, E. Landguth, A. Leal-Saenz, B. McTeague, M. Menon, E. Moler, G. Page, D. Savin, A. Shirk, R. Smith, T. Steadman, J. Swenson, and **H. Y. Wan**. 2019. Adaptation and acclimation of a tree to disease and aridity. Conference: NSF Macrosystems Biology PI Meeting, Boulder, CO.
12. Bosco, L., **H. Y. Wan**, S. A. Cushman, R. Arlettaz, and A. Jacot. 2017. Effects of habitat quality and fragmentation on Woodlarks (*Lullula arborea*) and their invertebrate prey in intensively managed vineyards. Joint Annual Meeting: Ecology Across Borders, British Ecological Society (BES), Gesellschaft für Ökologie (GfÖ) and NecoV, Ghent, Belgium.
13. Littell, J. S., D. McKenzie, S. A. Cushman, and **H. Y. Wan**. 2017. Climate change and future wildfire in the western USA: what model projections do and don't tell us. AGU Fall Meeting, American Geophysical Union, New Orleans, LA.
14. Cushman, S.A., **H. Y. Wan**, and K. A. Zeller. 2017. Quantifying the combined effects of climate, fire, and treatments on the connectivity and fragmentation of wildlife populations across the Great Basin. Great Basin Consortium Conference, University of Nevada, Reno, NV.
15. Christiansen, M., M. Menon, **H. Y. Wan**, C. Silva, J. Row, and B. Fedy. 2016. Landscape genetics under varying landscape characteristics. 2nd Annual Meeting in Conservation Genetics, Göttingen, Germany.



TEACHING EXPERIENCE

Courses taught at Cal Poly Humboldt:

WLDF 301	Principles of Wildlife Management
WLDF 460	Conservation Biology
WLDF 468	Spatial Wildlife Ecology
WLDF 510	Advance Principle of Wildlife Management (Landscape Genetics)
WLDF 585	Seminar in Wildlife Management
WLDF 690	Thesis
WLDF 695	Advanced Field Problems

Other:

2022	Instructor. R Computer Labs, Landscape Genetics - Distributed Graduate Seminar (DGS) 2022.
2020	Instructor. EES 698 Landscape Genetics, Northern Arizona University.
2020	Instructor. EES 685 Landscape Genetics Lab, Northern Arizona University.
2020	Guest Lecturer. WLDF 301 Principles of Wildlife Management, Humboldt State University.
2020	Instructor. R Computer Labs, Landscape Genetics - Distributed Graduate Seminar (DGS) 2020.
2015 – 2020	Teaching Assistant. National Advanced Silviculture Program (NASP). Landscape Ecology in Theory and Practice: Application to the Study and Management of Public Lands.
2019	Instructor. FOR 604 Wildlife Habitat Relationships, Northern Arizona University.
2019	Instructor. ENV 540 Conservation Biology, Northern Arizona University.
2019	Instructor. ENV 440 Conservation Biology, Northern Arizona University.
2019	Instructor. ENV 440L Conservation Biology Lab, Northern Arizona University.
2019	Instructor. BIO 441 Conservation Biology, Northern Arizona University.
2019	Instructor. Landscape Science for Shared Stewardship – Landscape Ecology, FRAGSTATS, multi-scale habitat modeling, and connectivity modeling training workshop for Region 4, USDA Forest Service.
2018	Guest Lecturer. Multicultural Course for Academic Advisors, David O. McKay School of Education, Brigham Young University.
2016	Guest Lecturer. FOR 698 Landscape Genetics Distributed Graduate Seminar, Northern Arizona University.
2016	Teaching Assistant. FOR 698 Landscape Genetics Distributed Graduate Seminar, Northern Arizona University.
2014	Guest Lecturer. ENV 540 Conservation Biology, Northern Arizona University.
2014	Instructor. Biometry and Statistical Analysis Workshop for ENV 540, Northern Arizona University.
2001	Teaching Assistant. Mandarin, Foreign Language Department, Brigham Young University Idaho.



JOURNAL MANUSCRIPT PEER REVIEWS

Journal

1. *Agriculture*
2. *Animals*
3. *Animal Conservation*
4. *Biological Conservation*
5. *Conservation Biology*
6. *Conservation Letters*
7. *Diversity*
8. *Diversity and Distributions*
9. *Drones*
10. *Earth*
11. *Ecological Applications*
12. *Ecological Complexity*
13. *Ecological Engineering*
14. *Ecological Indicators*
15. *Ecological Informatics*
16. *Ecological Modelling*
17. *Ecology and Evolution*
18. *Ecology and Society*
19. *Emu – Austral Ornithology*
20. *Environmental Challenges*

21. *Fire Ecology*
22. *Forest Ecology and Management*
23. *Forests*
24. *Geocarto International*
25. *Heliyon*
26. *Institute of Electrical and Electronics Engineers (IEEE) Access*
27. *International Journal of Environmental Research and Public Health*
28. *International Journal of Environmental Science and Technology (JEST)*
29. *iScience*
30. *ISPRS International Journal of Geo-Information (IJGI)*
31. *Journal for Nature Conservation*
32. *Journal of Raptor Research*
33. *Land*
34. *Landscape and Urban Planning*
35. *Landscape Ecology*
36. *Molecular Ecology*
37. *Movement Ecology*
38. *PeerJ*
39. *PLOS ONE*
40. *Remote Sensing*
41. *Remote Sensing Applications: Society and Environment*
42. *Scientific Reports*
43. *Wildlife Research*



PROFESSIONAL SERVICE

2025 - Present	Councilor-at-large. International Association for Landscape Ecology, Northern American Region (IALE-NA).
2024 - Present	Committee Member and Reviewer, Awards Committee. International Association for Landscape Ecology, Northern American Region (IALE-NA).
2023 - 2025	Committee Member, College of Natural Resources & Sciences (CNRS) Diversity, Equity, and Inclusion Committee, Cal Poly Humboldt.
2023 - 2025	International Advisory Committee, Cal Poly Humboldt.
2023 - 2025	Conservation Affairs Committee Chair, California North Coast Chapter of The Wildlife Society.
2022 - 2023	Immediate Past President, The Arizona Chapter of The Wildlife Society.
2022	Host and organizer. 55th Joint Annual Meeting of the Arizona/New Mexico Chapters of the Wildlife Society and Arizona/New Mexico Chapters of the American Fisheries Society.
2022	Reviewer. NSF Graduate Research Fellowship Program (GRFP), National Science Foundation.
2022 - Present	TWS Jim McDonough Award Committee, Western Section Representative, The Wildlife Society.
2021 - 2025	Committee Member, Geospatial Science (GSP) Steering Committee, Cal Poly Humboldt.
2021 - 2025	Group Member, BIPOC Faculty Affinity Group, Cal Poly Humboldt.
2021 - 2022	Reviewer, TWS Conservation Education Award Committee, The Wildlife Society.
2021 - 2022	President, The Arizona Chapter of The Wildlife Society.
2021	Panel Discussion Organizer. C. Chambers, M. Darity, J. Martinez-Fonseca, J. Ortiz, and H.Y. Wan. Panel discussion: the diverse paths to a wildlife career. The Wildlife Society's 28th Annual Conference.
2021	Session Co-host, Annual Meeting of the Western Section of The Wildlife Society
2020 - Present	Topics Board Editor, <i>Conservation</i> .

2020 – Present	Reviewer Board, <i>Land</i> .
2019 – Present	Reviewer Board, <i>Remote Sensing</i> .
2020 – 2021	President-elect, The Arizona Chapter of The Wildlife Society
2020 – 2021	Elections and Awards Committee Chair, The Arizona Chapter of The Wildlife Society
2020	Judge. John Prather Graduate Scholarship in Conservation Biology, Northern Arizona University.
2019	Judge. Simberloff Award for Outstanding Student Presentation. 104 th Annual Meeting, Ecological Society of America, Louisville, KY.
2017	Symposium organizer. M. Mark, C. Kimball, S. Stortz, H.Y. Wan. Symposium: Coalescing into a holistic and equitable conservation culture: learning across communities on the Colorado Plateau Region. 14th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region, Flagstaff, AZ.
2017	Seminar host. Forestry Seminar Series, School of Forestry, Northern Arizona University, Flagstaff, AZ.
2016	Session Moderator. 49th Joint Annual Meeting of the Arizona/New Mexico Chapters of the Wildlife Society and Arizona/New Mexico Chapters of the American Fisheries Society, Flagstaff, AZ.
2015	Poster Session Coordinator. 13th Biennial Conference of Science and Management on the Colorado Plateau and Southwest Region, Flagstaff, AZ.



RESEARCH AWARDS AND GRANTS

Funding to date: \$1,429,629

Since Employment at Cal Poly Humboldt (Total: \$722,629)

2025	Pacific Northwest National Laboratory (Principal Investigator) Field Support for Bats Tracking at Lassen National Forest.	\$16,025
2024	Cal Poly Humboldt Sponsored Programs Foundation Trust Fund (Principal Investigator) Low-cost Animal Tracking for Teaching and Research.	\$2,000
2024	California Department of Fish and Wildlife (Principal Investigator) Genomics Approach to Measuring Migratory Connectivity Between Breeding and Wintering Distributions for Black Brant.	\$61,040
2023	Humboldt-ERFSA small grant (Principal Investigator) Increasing the use of trail cameras and spatial data to improve undergraduate and graduate education and research in wildlife science	\$1,000
2023	Cal Poly Humboldt Agricultural Research Institute (ARI) (Principal Investigator) Stimulating Investment in Forest Health and Sustainable Forest Products	\$85,467
2022	Oregon Department of Fish and Wildlife (Co-Principal Investigator) Oregon Conservation and Recreation Fund (OCRF) Funded by the Coronavirus State and Local Fiscal Recovery Fund (SLFRF) Wildfire and habitat connectivity of Lewis's woodpecker in the east Cascades	\$48,949
2022	National Council for Air and Stream Improvement, Inc. (Co-Principal Investigator) Fire effects on marten and fisher in Lassen National Forest	\$170,265
2022	Fabric Workshop (Principal Investigator) CA Wood Fiber Utilization	\$30,000
2022	Oregon Department of Fish and Wildlife grant (Co-Principal Investigator) Wildfire and habitat connectivity of Lewis's woodpecker in the east Cascades	\$89,581
2022	Cal Poly Humboldt Professional Development Funds (Principal Investigator)	\$3,000

	Increase retention of BIPOC faculty	
2022	Humboldt State University Sponsored Programs Foundation Trust Fund (Principal Investigator) Stimulating investment in forest health and sustainable forest products	\$10,000
2022	Humboldt County Headwaters Fund mini-grants program (Principal Investigator) Stimulating investment in forest health and sustainable forest products	\$5,000
2021	National Forest Foundation (Principal Investigator) Innovative Finance for National Forests Grant Program Stimulating investment in forest health and sustainable forest products	\$14,896
2021	Research, Scholarship, and Creative Activities Program (RSCA) AY21-22 (Principal Investigator) Research inequity in wildlife sciences	\$5,000
2021	Save the Redwoods League (Principal Investigator) Research Starter Grants for Black, Indigenous, and People of Color Condors and Redwoods Ecological Research (CARER)	\$5,000
2021	Tuttle Climate Graduate Scholarship Award (Applied with graduate student Danial Nayeri) Evaluating the effect of projected climate change and altered fire regimes on the spotted owl habitat using a multi-scale ensemble learning and scenario modeling framework	\$30,000
2020	U.S. Department of Agriculture Forest Service grant (Principal Investigator) Assessing population connectivity of multiple species in New Mexico	\$48,782
2020	U.S. Department of Agriculture Forest Service grant (Principal Investigator) Mapping distribution of rare plant species within spotted owl habitat	\$39,841
2020	U.S. Department of Agriculture Forest Service grant (Principal Investigator) Mexican spotted owl habitat monitoring	\$21,783
2020	Faculty startup fund. Cal Poly Humboldt. Wildlife habitat and connectivity in Panama	\$35,000

Prior to Employment at Cal Poly Humboldt (Total: \$707,000)

2019	<i>New Mexico Department of Transportation</i> New Mexico Wildlife Corridors Action Plan	\$85,000
2019	<i>Southwestern Regional Office, US Forest Service</i> Multi-scale Species Distribution and Connectivity Modeling in the Southwest	\$60,000
2019	<i>Prescott National Forest, US Forest Service</i> Multi-scale Species Distribution and Connectivity Modeling for Pronghorn to Support Optimal Forest Restoration Treatment Design in Northern Arizona	\$30,000
2019	AI for Earth Microsoft Azure Compute Grant CitizenScaping: Linking People and Pixel Using Artificial Intelligence	\$15,000
2019	<i>Arizona Army National Guard</i> Ecological Scenario Decision Support Tool to Support Management of National Guard Installations	\$15,000
2018	<i>US Forest Service WO</i> National Forest System Regional Office Training in Landscape Ecology	\$45,000
2017	<i>New Mexico Department of Game and Fish</i> New Mexico State-wide Wildlife Linkage Assessment.	\$50,000

2017	<i>The Wilderness Society</i> New Mexico State-wide Wildlife Linkage Assessment.	\$17,000
2016	<i>Great Basin Landscape Conservation Cooperative</i> Quantifying climate, fire, and treatment effects on connectivity and fragmentation of wildlife populations across the Great Basin	\$100,000
<u>Ph.D. funding</u>		
2013	<i>National Fire Plan</i> Simulating effects of fuels treatment and climate change on disturbance regimes	\$210,000
<u>M.S. funding</u>		
2011	<i>Utah Division of Natural Resources</i> The role of fire and ecological conditions on wildlife impacts on aspen regeneration	\$80,000



SELECTED AWARDS AND HONORS

2024	ScholarGPS™ Highly Ranked Scholar™ in the specialty of Habitat (Global Rank: #19) Recognized among the top 0.05% of scholars worldwide , based on prior five-year scholarly productivity (publication count), impact (citations), and quality (h-index). Rankings are derived from analysis of over 30 million scholar profiles and 200 million publications, with all metrics weighted by number of authors and excluding self-citations.	
2022	Featured on <i>The Wildlife Professional</i> , the flagship magazine published by The Wildlife Society. The article showcases Dr. Ho Yi Wan's career path and his work in advancing diversity, equity, and inclusion. Link to article	
2019	NEON-ESA Early Career Scholar Award Presented by: National Science Foundation's National Ecological Observatory Network (NEON) and the Ecological Society of America (ESA) The awardee is inducted as a NEON-ESA Early Career Scholar. The award aims to cultivate and support a diverse group of promising early career scientists and practitioners to utilize the NEON framework and database to advance science.	
2018	Wings Across the Americas Conservation Award Presented by: U.S. Forest Service, Department of Agriculture This award recognizes the strong partnership between the awardee and U.S. Forest Service researchers, and acknowledges research that leads to effective management plans and conservation actions.	
2018	NASA-MSU Professional Enhancement Award Presented by: The National Aeronautics and Space Administration (NASA) and Michigan State University This award recognizes the contribution of young researchers to the field of Landscape Ecology.	



AWARDS AND HONORS

2024	ScholarGPS™ Highly Ranked Scholar™ in Habitat (Global Rank: #19)	\$ -
2023	Top Cited Article 2023, <i>Applied Vegetation Science</i>	\$ -
2023	CNRS Professional Development Funding	\$1000

2023	Top Cited Article 2022-2023, <i>Animal Conservation</i>	\$ -
2022	AZTWS Continuing Education Grant	\$500
2022	President Alistair McCrone Promising Faculty Scholars Award	\$1,500
2022	Featured on <i>The Wildlife Professional</i> , flagship magazine of The Wildlife Society	\$ -
2022	Top Cited Article 2021-2022, <i>Animal Conservation</i>	\$ -
2020	Ecological Society of America Annual Meeting Registration Grant	\$190
2020	Reviewer Certificate – <i>Ecology and Evolution</i>	\$ -
2020	Reviewer Certificate – <i>Diversity and Distributions</i>	\$ -
2019	NEON-ESA Early Career Scholar Award	\$1500
2018	Wings Across the Americas Conservation Award	\$ -
2018	NASA-MSU Professional Enhancement Award	\$ -
2018	NAU Graduate Student Government Travel Award	\$450
2018	Certificate of Outstanding Contribution in Reviewing – <i>Biological Conservation</i>	\$ -
2016	Landscape Genetics DGS Synthesis Meeting Travel Award	\$550
2016 –	Phi Kappa Phi	\$ -
2016 –	Golden Key International Honour Society	\$ -
2015	John Prather Graduate Scholarship in Conservation Biology	\$1,000
2014 – 2018	NAU Graduate Assistant Scholarship	\$56,917
2013	PWS Graduate Research Conclave 1 st Place	\$1,000
2013	Research Presentation Award	\$500
2013	BYU-H Alumni International Graduate Scholarship	\$3,100
2012	Research Presentation Award	\$500
2012	PWS Graduate Research Conclave 2 nd Place	\$750
2012	Robert N. Anderson Scholarship	\$500
2012	BYU-H Alumni International Graduate Scholarship	\$3,100
2005	Brigham Young University Hawaii Summa Cum Laude	\$ -
2005	School of Business Award	\$2,850
2005	Winergar Larson Endowed Scholarship	\$1,300
2004	School of Business Award	\$850
2004	Monida & Nephi Cummings Scholarship	\$1,000
2004	Ivan and Janet Radman Scholarship	\$1,000
2003	School of Business Award	\$600
2003	Asian Leadership Development Scholarship	\$1,000
2001	Ricks College Honor Roll	\$ -



SKILLS

GIS	ArcGIS, QGIS, ENVI, R, Google Earth Engine
Statistics	R, MATLAB, Python, JMP, PAST3, SAS, SigmaPlot, FRAGSTATS
Programming	Python, R, Visual Basic, ArcPy, JavaScript
Modeling	UNICOR, CDPOP, sGD, Circuitscape, random forest, SVM, nnet, multi-scale habitat selection, species distribution, climate-fire projection, gene flow, connectivity and corridor network, landscape dynamics simulation
Instrumentation	ICP, AA, MS, Lachat, Tru-Spec CN analyzer (LECO), LI-COR 6400, FieldScout TDR 100 Soil Moisture Probe (Spectrum), 1005 Pressure Chamber (PMS Instrument), AccuPAR LP-80 Ceptometer (Decagon)
Languages	Fluent in English, Cantonese Chinese, Mandarin Chinese Advanced level in Japanese



STUDENT AND RESEARCHER MENTORSHIP

Impact Summary

- Mentored 60+ researchers across undergraduate, graduate, and postdoctoral levels.
- Co-authored 28 peer-reviewed publications with mentees (* indicates co-authorship).
- Advised projects spanning fire ecology, wildlife connectivity, biodiversity, predator-prey interactions, climate change impacts, and conservation policy across North and South America, Europe, and Asia.
- Many mentees have gone on to research positions, agency roles, and conservation leadership.

Graduate Advising (*co-author on publication)

1. Quinlan House (M.S. in Wildlife, Cal Poly Humboldt, 2024 – Present) – Barred owl and spotted owl habitat and connectivity dynamics.
2. Amida Verhey (M.S. in Wildlife, Cal Poly Humboldt, 2024 – Present) – Fire and biodiversity in California.
3. Alex Lewis (M.S. in Wildlife, Cal Poly Humboldt, 2023 – Present) – Silver-haired bats in a recently burned landscape.
4. Deirdre Replinger (M.S. in Wildlife, Cal Poly Humboldt, 2023 – Present) – Fire effects on fisher and marten occupancy, habitat use, and connectivity.
5. Cameron Piper (M.S. in Wildlife, Cal Poly Humboldt, 2023 – Present) – Habitat and connectivity of Lewis's Woodpecker (*Melanerpes lewis*) in Oregon [Co-advised with Dr. Frank A Fogarty III].
6. *Rebeca Becdach (M.S. in Wildlife, Cal Poly Humboldt, 2022 – Present) – Biological corridor and predator-prey Interaction in Panama
7. Christopher Collier (M.S. in Wildlife, Cal Poly Humboldt, 2022 – 2024, graduated) – Stimulating investment in forest health and sustainable forest products.
8. Brittany Welch (M.S. in Wildlife, Cal Poly Humboldt, 2022 – 2024, graduated) - Drivers of migratory strategies of Lewis's Woodpecker (*Melanerpes lewis*) in Oregon. [Co-advised with Dr. Frank A Fogarty III]
9. *Danial Nayeri (M.S. in Wildlife, Cal Poly Humboldt, 2021 – 2023, graduated) – Mexican spotted owl, barred owl, fire, climate change.
10. *Logan Hysen (M.S. in Wildlife, Cal Poly Humboldt, 2021 – 2023, graduated) – Forest fuel and fire risk on northern spotted owl.
11. Ashley Harper (M.S. in Wildlife, Cal Poly Humboldt, 2021 – 2023, graduated) – Land use effects and habitat connectivity on the movement of Roosevelt Elk (*Cervus canadensis roosevelti*) on the North Coast of California [Co-advised with Dr. Micaela Gunther]

Undergraduate Research Advising

1. Daniel Meng (B.S. in Wildlife, Cal Poly Humboldt, 2024 – 2025) – Mesocarnivores camera trapping / species tracking
2. Nathan Simpson (B.S. in Wildlife, Cal Poly Humboldt, 2023 – 2025) – Mesocarnivores camera trapping
3. Naomi Goodwin (B.S. in Wildlife, Cal Poly Humboldt, 2023) – Mesocarnivores camera trapping
4. Andrew Will (B.S. in Botany, Cal Poly Humboldt, 2023) – Mesocarnivores camera trapping
5. Jose Luis Sandoval (B.S. in Wildlife, Cal Poly Humboldt, 2022) – Panama carnivores camera trapping
6. Jessica Hernandez (B.S. in Wildlife, Cal Poly Humboldt, 2022) – Panama carnivores camera trapping
7. *Katherine Larson (B.S. in Wildlife, Cal Poly Humboldt, 2022) – Habitat suitability of North American river otter (*Lontra canadensis*)
8. José-Juan Rodríguez (B.S. in Wildlife, Cal Poly Humboldt, 2020) – Condors and Redwoods Ecological Research (CARER)
9. *Kellie Crouch (B.S. in Wildlife, Cal Poly Humboldt, 2021 – 2022) – Diversity and gender equity in wildlife science

Other Thesis/Dissertation Committee Membership

1. Morgan Hughes (Ph.D. in Biology, Northern Arizona University, 2025 – Present)
2. Anise Dellith-Moser (M.S. in Biology, Cal Poly Humboldt, 2024 – Present)
3. Brielle Jaglowski (M.S. in Wildlife, Cal Poly Humboldt, 2024 – Present)

4. Alon Averbuj (M.S. in Wildlife, Cal Poly Humboldt, 2023 – Present)
5. Jadzia Rodriguez (M.S. in Wildlife, Cal Poly Humboldt, 2023 – Present)
6. Cameron Jones (M.S. in Biology, Cal Poly Humboldt, 2023 – Present)
7. Ivonne Romero (M.S. in Wildlife, Cal Poly Humboldt, 2023 – Present)
8. Ashley Jacob (M.S. in Biology, Cal Poly Humboldt, 2022 – Present)
9. Tina Giudici (M.S. in Wildlife, Cal Poly Humboldt, 2022 – 2024)
10. Elizabeth D. Meisman (M.S. in Wildlife, Cal Poly Humboldt, 2022 – Present)
11. Robyn Norman (M.S. in Biology, Cal Poly Humboldt, 2022 – 2024)
12. Erika Anderson (M.S. in Wildlife, Cal Poly Humboldt, 2021 – 2023)
13. Lila Bowen (M.S. in Wildlife, Cal Poly Humboldt, 2021 – 2023)
14. Shaun Thornton (M.S. in Wildlife, Cal Poly Humboldt, 2021 – 2023)
15. Maddie McNerthney (M.S. in Environmental Science & Management, Cal Poly Humboldt, 2021 – 2023)
16. Kaitlyn Breana Hernandez (M.S. in Wildlife, Cal Poly Humboldt, 2021 - Present)
17. Sara Moriarty-Graves (M.S. in Wildlife, Cal Poly Humboldt, 2021 - 2023)
18. Mary A. Mackey (M.S. in Biology, Cal Poly Humboldt, 2021 - 2024)
19. Samantha D. Chavez (M.S. in Wildlife, Cal Poly Humboldt, 2020 - 2023)
20. Janelle Chojnacki (M.S. in Wildlife, Cal Poly Humboldt, 2020 - 2024)
21. Jaime Carlino (M.S. in Wildlife, Cal Poly Humboldt, 2020 - 2024)
22. Jason R. Holmes (M.S. in Biology, Cal Poly Humboldt, 2020 - Present)
23. Zeinab (Rose) Haidar (M.S. in Biology, Cal Poly Humboldt, 2020 - 2023)
24. Evelyn Lichwa (M.S. in Wildlife, Cal Poly Humboldt, 2020 - 2021)

Other Mentees (*co-author on publication)

1. Madhushri Mudke (Post-doc, 2025), Holématthi Nature Foundation, India
2. *Guifang Wang (Ph.D. 2020 – 2024), Szent István University, Hungary
3. *Shahid Dar (Ph.D. 2019 – 2020), Wildlife Institute of India, India
4. *Jose G. Martinez-Fonseca (Ph.D. 2019 – 2022), Northern Arizona University, USA
5. Nancy Peterson (Ph.D. 2019), Northern Arizona University, USA
6. Cirenía A. Torres (M.S. 2019), University of Southern California, USA
7. *Caroline Sartor (Ph.D. 2018 – 2019), Universidade Federal do Rio Grande do Sul, Brazil
8. *Kimberly Craighead (Ph.D. 2018 – 2019), Antioch University New England, USA
9. Michele Losee (Ph.D. 2017 – 2019), Antioch University New England, USA
10. *Guoliang Pan (Ph.D. 2018), University of Copenhagen, Denmark
11. *Violeta Lopez Marquez (Ph.D. 2018), Museo Nacional de Ciencias Naturales, Spain
12. *Michael Lommler (Ph.D. 2017 – 2018), Northern Arizona University, USA
13. *Laura Bosco (Ph.D. 2017 – 2018), University of Bern, Switzerland
14. *Luca Chiaverini (M.S. 2017 – 2018), Sapienza University of Rome, Italy
15. Lili Xá (M.S. 2016), Instituto de Ecología, A.C., Mexico
16. *Valentin Lauret (M.S. 2016), École normale supérieure de Lyon, France
17. *Kyle Muncey (B.S. 2013 – 2014), Brigham Young University, USA
18. *Adam Olson (B.S. 2013 – 2014), Brigham Young University, USA
19. *Anson Call (B.S. 2013 – 2014), Brigham Young University, USA



PROFESSIONAL MEMBERSHIP

2021 – Present	The Wildlife Society Western Section
2021 – Present	The California North Coast Chapter of The Wildlife Society
2018 – Present	The Wildlife Society Southwest Section
2017 – Present	International Association for Landscape Ecology, Northern American Region (IALE-NA)

2016 – Present	The Wildlife Society
2016 – Present	The Arizona Chapter of The Wildlife Society
2012 – Present	Sino-Ecologists Association Overseas
2011 – Present	Ecological Society of America



COMMUNITY SERVICE

2016 – 2020	Sustainability Merit Badge Counselor, Boy Scouts of America
2016 – 2019	Environmental Science Merit Badge Counselor, Boy Scouts of America
2016	Judge, Marshall Elementary 29th Science Fair, Flagstaff, AZ
2012 – 2013	Scout Leader, Utah National Parks Council, Boy Scouts of America
2012	Experiment Presenter, Kid's Science Palooza, Provo, UT
2009	Supervisor, Hong Kong Family Welfare Society, Hong Kong
2008 – 2009	Team Leader, The Mental Health Association of Hong Kong, Hong Kong
2008	Group Leader, Teen AIDS Band Show cum World AIDS Day Candlit Vigil, Hong Kong



OTHER WORK EXPERIENCE

2010 – 2011	Contract Translator, Intellectual Reserve, Inc., UT, USA
2008 – 2009	Translator / Audio Technician, Best & Original Production Ltd., Hong Kong
2007 – 2008	English Private Tutor, Hong Kong
2006 – 2007	Business Development Manager, Gemini Development Company Ltd., Hong Kong
2004 – 2005	Media Clerk, Technical Services Department, Brigham Young University Hawaii