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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

2020 Aug – Present	Assistant Professor. Spatial Ecology, Department of Wildlife, California State Polytechnic University Humboldt.
2019 May – Present	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

- 1. 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. In press. Automated habitat monitoring systems linked to adaptive management: a new paradigm for species conservation in an era of rapid environmental change. *Landscape Ecology*.
- 2. 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. In press. Spatial and temporal dynamics of Mexican spotted owl habitat in the southwestern US. *Landscape Ecology*.

- 3. Khosravi, R., **H. Y. Wan**, and M.-R. Sadeghi. In press. Identifying human-brown bear conflict hotspots for prioritizing critical habitat and corridor conservation in southwestern Iran. *Animal Conservation*.
- 4. Sartor, C. C., **H. Y. Wan**, J. A. Pereira, E. Eizirik, T. C. Trigo, T. R. O. de Freitas, S. A. Cushman. Accepted. Landscape genetics outperforms habitat suitability in predicting landscape resistance for congeneric cat species. *Journal of Biogeography*.
- 5. Rezaei, S., A. Mohammadi, M. Ranaie, S. Shadloo, and **H. Y. Wan**. Under review. Climate change induces habitat shifts and overlaps among carnivores in arid and semiarid ecosystem.
- Nayeri, D., A. Mohammadi, L. Hysen, D. Hipólito, D. Huber, and H. Y. Wan. Under review. Identifying Human-Caused Mortality Hotspots to Inform Human-Wildlife Conflict Mitigation.
- 7. 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. doi:10.14627/537724018
- 8. 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. doi: 10.1186/s42408-021-00125-0
- 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*. doi: 10.1007/s10980-021-01386-5
- 10. 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*. doi: 10.1007/s10980-021-01335-2
- 11. 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. doi: 10.1111/mec.16080
- 12. 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. doi: 10.1111/ddi.13402
- 13. 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. doi: 10.1111/acv.12671
- 14. 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. doi: 10.1038/s41598-021-91921-w
- 15. 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. doi: 10.1016/j.ecolind.2021.107885
- 16. 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. doi: 10.1016/j.ecolmodel.2021.109566
- 17. 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. doi: 10.1111/jeb.13761

- 18. 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. doi:10.1111/acv.12604
- 19. 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. doi: 10.1002/ece3.8327
- 20. 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. doi:10.14627/537705020
- 21. **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. doi:10.1186/s42408-020-0068-2
- 22. 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. doi:10.1016/j.biocon.2020.108523
- 23. 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. doi: 10.1002/ecs2.3312
- 24. **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. doi:10.1007/s10980-019-00788-w
- 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. doi:10.3389/fevo.2019.00037
- 26. 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. doi:10.1007/s10980-018-0748-3
- 27. 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. doi: 10.1007/s10980-019-00911-x
- 28. 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. Zaehringer, and J. Liu. 2019. Telecoupling research: the first five years. Sustainability 11(4):1033. doi:10.3390/su11041033
- 29. 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. doi:10.3390/su11041108
- 30. **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. doi:10.3390/genes9080403
- 31. **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. doi:10.1002/jwmg.21423
- 32. 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. doi:10.1029/2018EF000878

- 33. **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. doi:10.1650/CONDOR-17-32.1
- 34. 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. doi:10.4996/fireecology.130318020
- 35. 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. doi:10.1016/j.foreco.2017.04.014
- 36. 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. doi:10.1007/s10980-016-0374-x
- 37. **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. doi:10.1111/oik.01521
- 38. **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. doi:10.1016/j.foreco.2014.06.006



OTHER PUBLICATIONS / PRODUCTS

- 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. Copenhaver-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/1GrDlfL3VUv0NXEfrt973zBFHx6lG
- 2. Wan, H. Y. 2022. The President's message Winter edition. The Arizona Wildlifer 2022(1):1-2.
- 3. 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. https://wildlifeactionplan.nmdotprojects.org/
- 4. Wan, H. Y. 2021. The President's message Fall edition. The Arizona Wildlifer 2021(4):1-2.
- 5. Wan, H. Y. 2021. The President's message Summer edition. The Arizona Wildlifer 2021(3):1-2.
- 6. Wan, H. Y. 2021. The President's message Spring edition. The Arizona Wildlifer 2021(2):1-3.
- 7. 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
- 8. 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
- 9. **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

- 10. 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
- 11. **Wan, H. Y.** 2018. Habitat, Connectivity, and Gene Flow of Mexican Spotted Owl in Southwestern Forests. Ph.D. Dissertation, Northern Arizona University, Flagstaff, AZ.
- 12. **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)

Oral presentations

- 1. *Wan, H.Y. 2022. A goal in mind: how to foster an inclusive mindset? Conservation Unlimited Talk, TWS Student Chapter, Cal Poly Humboldt.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. *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.
- 6. *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.
- 7. 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.
- 8. *Wan, H.Y. 2021. Panelist. Panel discussion: the diverse paths to a wildlife career. The Wildlife Society's 28th Annual Conference.
- 9. *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.
- 10. 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.
- 11. *Wan, H.Y. 2021. Research highlights TED talk. 10th Annual Principal Investigators (PI) Research Celebration, HSU Sponsored Programs Foundation.
- 12. *Wan, H.Y. 2021. Diversity, equity, and inclusion in wildlife sciences. Wildlife Graduate Student Society (WiGSS) EcoSeries Seminar, Humboldt State University, Arcata, CA.
- 13. 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.

- 14. 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.
- 15. 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.
- 16. 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.
- 17. 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.
- 18. *Wan, H.Y. 2020. Reconsidering scale in understanding spotted owls, habitat, and fire. Wildlife Research Seminar, Department of Wildlife, Humboldt State University, Arcata, CA.
- 19. **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.
- 20. 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.
- 21. Martínez-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.
- 22. *Wan, H.Y. 2019. Panel speaker. Panel: Federal agency assessments of wildlife corridors. 2019 Upper Rio Grande Wildlife Corridors Summit, Taos, NM.
- 23. *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.
- 24. *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.
- 25. *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.
- 26. **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.
- 27. Waring, K.M., S. Cushman, A. Eckert, L. Flores-Renteria, R. Sniezko, 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.
- 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.
- 29. 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.

- 30. 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.
- 31. 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.
- 32. 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
- 33. *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.
- 34. *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.
- 35. *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.
- 36. *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.
- 37. *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.
- 38. *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.
- 39. 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.
- 40. **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.
- 41. *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.
- 42. **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.
- 43. 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.
- 44. 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.
- 45. **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.
- 46. 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.

47. **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. 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.
- 2. 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.
- 3. Waring, K., S. Cushman, A. Eckert, L. Flores-Rentería, R. Sniezko, 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.
- 4. 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.
- 5. 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.
- 6. 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.
- 7. 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 a	Courses taught at Cal Poly Humboldt:		
WLDF 301	Principles of Wildlife Management		
WLDF 468	Spatial Wildlife Ecology		
WLDF 510	Advance Principle of Wildlife Management (Landscape Genetics)		
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, multiscale 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 REVIEWS

Journal

- 1. Agriculture
- 2. Animals
- 3. Animal Conservation
- 4. Biological Conservation
- 5. Diversity
- 6. Diversity and Distributions
- 7. Earth
- 8. Ecological Applications
- 9. Ecological Complexity
- 10. Ecological Engineering
- 11. Ecological Informatics
- 12. Ecological Modelling
- 13. Ecology and Evolution
- 14. Emu Austral Ornithology
- 15. Environmental Challenges
- 16. Fire Ecology
- 17. Forest Ecology and Management
- 18. Forests
- 19. Geocarto International
- 20. Institute of Electrical and Electronics Engineers (IEEE) Access
- 21. International Journal of Environmental Research and Public Health
- 22. International Journal of Environmental Science and Technology (JEST)
- 23. ISPRS International Journal of Geo-Information (IJGI)
- 24. Journal of Raptor Research
- 25. Land
- 26. Landscape Ecology
- 27. PeerJ
- 28. PLOS ONE
- 29. Remote Sensing
- 30. Scientific Reports
- 31. Wildlife Research



PROFESSIONAL SERVICE

2022 - Present 2022	Immediate Past President, The Arizona Chapter of The Wildlife Society 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 2022	Reviewer. NSF Graduate Research Fellowship Program (GRFP), National Science Foundation. TWS Jim McDonough Award Committee, Western Section Representative, The Wildlife Society.
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, Conservation
2020 – Present	Reviewer Board, Land.
2019 – Present	Reviewer Board, Remote Sensing.
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. 104th 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 GRANTS

Since Employment at Cal Poly Humboldt (Total: \$183,302)		
2022	Cal Poly Humboldt Professional Development Funds (Principal Investigator) Increase retention of BIPOC faculty	\$3,000
2022	Humboldt State University Sponsored Programs Foundation Trust Fund (Principal Investigator) Stimulating Investment in Forest Health and Sustainable Forest Products	\$10,000
2021	Humboldt County Headwaters Fund mini-grants program (Principal Investigator) Stimulating Investment in Forest Health and Sustainable Forest Products (awarded with conditions)	\$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)	\$5,000

Funding to date: \$890,302

Wan CV June 2022 10

	Research Inequity in Wildlife Sciences.	
2021	Save the Redwoods League Redwoods (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 h multi-scale ensemble learning and scenario modeling framework.	\$30,000 abitat using a
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
Prior to Emp	ployment at Cal Poly Humboldt (Total: \$707,000)	
2019	New Mexico Department of Transportation New Mexico Wildlife Corridors Action Plan	\$85,000
2019	Southwestern Regional Office, US Forest Service Multi-scale Species Distribution and Connectivity Modeling in the Southwest	\$60,000
2019	Prescott National Forest, US Forest Service Multi-scale Species Distribution and Connectivity Modeling for Pronghorn to Support Optimal F Restoration Treatment Design in Northern Arizona	\$30,000 Forest
2019	Al for Earth Microsoft Azure Compute Grant CitizenScaping: Linking People and Pixel Using Artificial Intelligence	\$15,000
2019	Arizona Army National Guard Ecological Scenario Decision Support Tool to Support Management of National Guard Installat	\$15,000 tions
2018	US Forest Service WO National Forest System Regional Office Training in Landscape Ecology	\$45,000
2017	New Mexico Department of Game and Fish New Mexico State-wide Wildlife Linkage Assessment.	\$50,000
2017	The Wilderness Society New Mexico State-wide Wildlife Linkage Assessment.	\$17,000
2016	Great Basin Landscape Conservation Cooperative Quantifying climate, fire, and treatment effects on connectivity and fragmentation of wildlife popacross the Great Basin	\$100,000 pulations
Ph.D. funding 2013	National Fire Plan Simulating effects of fuels treatment and climate change on disturbance regimes	\$210,000
M.S. funding 2011	Utah Division of Natural Resources The role of fire and ecological conditions on wildlife impacts on aspen regeneration	\$80,000



SELECTED AWARDS AND HONORS

Featured on *The Wildlife Professional*, 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

2022 2022 2020	President Alistair McCrone Promising Faculty Scholars Award Featured on <i>The Wildlife Professional</i> , flagship magazine of The Wildlife Society Ecological Society of America Annual Meeting Registration Grant	\$1,500 \$ - \$190
2020	Reviewer Certificate – Ecology and Evolution	\$ -
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	· ·	\$56,917
2013	PWS Graduate Research Conclave 1st 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 MENTORSHIP AND ADVISEMENT

Advised Graduate Students (*co-author on publication)

- 1. *Danial Nayeri (M.S. in Wildlife, 2021 Present) Mexican spotted owl, barred owl, fire, climate change.
- 2. Logan Hysen (M.S. in Wildlife, 2021 Present) Forest fuel and fire risk on northern spotted owl.
- 3. Ashley Harper (M.S. in Wildlife, co-advised with Dr. Micaela Gunther, 2021 Present) Land use effects and habitat connectivity on the movement of Roosevelt Elk (*Cervus canadensis roosevelti*) on the North Coast of California.
- 4. Rebeca Becdach (M.S. in Wildlife 2022 Present) Biological corridor and predator-prey Interaction in Panama
- 5. Christopher Collier (M.S. in Wildlife 2022 Present) Stimulating investment in forest health and sustainable forest products.
- 6. Brittany Welch (M.S. in Wildlife, co-advised with Dr. Frank A Fogarty III, 2022 Present) Drivers of migratory strategies of Lewis's Woodpecker (*Melanerpes lewis*) in Oregon.

Undergraduate Researchers

- 1. José Rodríguez (B.S. in Wildlife, 2020 Present) Condors and Redwoods Ecological Research (CARER)
- 2. Kellie Crouch (B.S. in Wildlife, 2021 Present) Diversity and gender equity in wildlife science
- 3. Jose Luis Sandoval (B.S. in Wildlife, 2022) Panama carnivores camera trapping
- 4. Jessica Hernandez (B.S. in Wildlife, 2022) Panama carnivores camera trapping

Thesis Committee Member

- 1. Robyn Norman (M.S. in Biology, 2022 Present)
- 2. Erika Anderson (M.S. in Wildlife, 2021 Present)
- 3. Lila Bowen (M.S. in Wildlife, 2021 Present)
- 4. Shaun Thornton (M.S. in Wildlife, 2021 Present)
- 5. Maddie McNerthney (M.S. in Environmental Science & Management, 2021 Present)

- 6. Kaitlyn Breana Hernandez (M.S. in Wildlife, 2021 Present)
- 7. Sara Moriarty-Graves (M.S. in Wildlife, 2021 Present)
- 8. Mary A. Mackey (M.S. in Biology, 2021 Present)
- 9. Samantha D. Chavez (M.S. in Wildlife, 2020 Present)
- 10. Janelle Chojnacki (M.S. in Wildlife, 2020 Present)
- 11. Jaime Carlino (M.S. in Wildlife, 2020 Present)
- 12. Jason R. Holmes (M.S. in Biology, 2020 Present)
- 13. Zeinab (Rose) Haidar (M.S. in Biology, 2020 Present)
- 14. Evelyn Lichwa (M.S. in Wildlife, 2020 2021)

Other Mentees (*co-author on publication)

- 1. *Guifang Wang (Ph.D. 2020 Present), Szent István University, Hungary
- 2. *Shahid Dar (Ph.D. 2019 Present), Wildlife Institute of India, India
- 3. Jose G. Martinez-Fonseca (Ph.D. 2019 Present), Northern Arizona University, USA
- 4. Nancy Peterson (Ph.D. 2019), Northern Arizona University, USA
- 5. Cirenia A. Torres (M.S. 2019), University of Southern California, USA
- 6. *Caroline Sartor (Ph.D. 2018 2019), Universidade Federal do Rio Grande do Sul, Brazil
- 7. *Kimberly Craighead (Ph.D. 2018 2019), Antioch University New England, USA
- 8. Michele Losee (Ph.D. 2017 2019), Antioch University New England, USA
- 9. Guoliang Pan (Ph.D. 2018), University of Copenhagen, Denmark
- 10. *Violeta Lopez Marguez (Ph.D. 2018), Museo Nacional de Ciencias Naturales, Spain
- 11. Michael Lommler (Ph.D. 2017 2018), Northern Arizona University, USA
- 12. *Laura Bosco (Ph.D. 2017 2018), University of Bern, Switzerland
- 13. *Luca Chiaverini (M.S. 2017 2018), Sapienza University of Rome, Italy
- 14. Lili Xá (M.S. 2016), Instituto de Ecología, A.C., Mexico
- 15. *Valentin Lauret (M.S. 2016), École normale supérieure de Lyon, France
- 16. *Kyle Muncey (B.S. 2013 2014), Brigham Young University, USA
- 17. *Adam Olson (B.S. 2013 2014), Brigham Young University, USA
- 18. *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	Northern American Regional Association of the International Association for Landscape Ecology
	(NA-IALE)
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 2008 – 2009	Contract Translator, Intellectual Reserve, Inc., UT, USA Translator / Audio Technician, Best & Original Production Ltd., Hong Kong
2007 – 2008	English Private Tutor, Hong Kong
2006 – 2007 2004 – 2005	Business Development Manager, Gemini Development Company Ltd., Hong Kong Media Clerk, Technical Services Department, Brigham Young University Hawaii