

JORGE SOBERÓN
Curriculum Vitae
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Personal Information

University Distinguished Professor
Ecology & Evolutionary Biology, KU Biodiversity Institute
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Biography

Dr. Jorge Soberón is mainly interested in documenting and understanding large-scale spatial patterns in the biodiversity of terrestrial species.

Education

Ph.D., October 1982
Imperial College, University of London, UK
Dissertation/Thesis: "Insect Population Dynamics in Heterogeneous Environments"

M.S., Biology / Ecology and Biogeography, August 1979
Facultad de Ciencias, Universidad Nacional Autónoma de México

B.S., Biology, June 1977
Facultad de Ciencias, Universidad Nacional Autónoma de México

Employment History

Academic

University of Kansas
University Distinguished Professor, Department of Ecology and Evolutionary Biology, 2014 - Present
Senior Scientist, Biodiversity Institute, 2005 - Present
Professor, Department of Ecology and Evolutionary Biology, 2008 - 2014

Universidad Nacional Autónoma de México
Investigador Titular [= Full Professor], Instituto de Ecología, 1987 - 2005
Investigador Asociado [= Assistant Professor], Instituto de Biología, 1982 - 1987

Professional

Comisión Nacional para el Uso y Conocimiento de la Biodiversidad, Mexican government
Executive Secretary, 1992 - 2005

Honors/Awards/Honor Societies

Individual Honors/Awards

Service Award, Society for Conservation Biology (2015 - Present)

An acknowledgement awarded yearly by the Society for Conservation Biology

Servicios a la Biodiversidad de Mexico, The Office of the President of Mexico (March 2012 - Present)

A presidential award given to me and to four other scientists (one American, three Mexicans) for services to the study and conservation of biodiversity

Premio al Merito Ecologico, Secretaria del Medio Ambiente, Mexico (2007 - Present)

An award by which the Ministry of the Environment of Mexico acknowledges services to Mexico's environment

Premio "Ciudad de Mexico", Government of Mexico City (1998 - Present)

A yearly award that the government of the city of Mexico uses to recognize work of individuals in favor of the city

2016 Highly-cited researcher., Thompson-Reuters (January 2016 - December 2016)

A recognition that a researcher is in the top 1% of citations in his/her field. Second year

2015 Highly-cited researcher., Thompson-Reuters (January 2015 - December 2015)

A recognition that a researcher is in the top 1% of citations in his/her field.

Other Honors/Awards

Named University Distinguished Professor, Board of Regents, University of Kansas (2014 - Present)

Research Interests (Statement)

Research Interests

In my lab we make extensive use of databases of specimens from scientific collections, or from observations. For the descriptive aspects of the work I use Geographical Information Systems software. For the predictive and analytical questions, I use mathematical models, as well as software specifically designed for niche modeling. I am also very interested in the political and institutional aspects of biodiversity governance. I love working in collaboration and I have published work in collaboration with colleagues in several laboratories in Mexico and the United States.

Current Research

Presently I am working on how to “integrate” alternative views of biodiversity like distributional data, phylogenetic data, data about interactions, and others. This is done in collaboration with computer scientists and colleagues in other universities. Results of this research can be applied to the more accurate planning of conservation. I am also very interested in how different niche factors affect species distributions at contrasting scales. I am very intrigued by the details of how, at changing

scales, different factors cease to act as variables in equations and become parameters in new equations. This is explored by mathematical modeling, by simulation, and by analyzing a very extensive field database compiled by one of the students in my group.

The students working in my group focus on questions related to factors affecting distributions of species at different scales, the effects of dispersal and migration on the shapes of the distributions, and the energetic and life-history correlates of fundamental niches. There is also a postdoctoral associate working on geometrical morphometrics of butterflies.

Generally speaking, in my group we try to explore conceptual and theoretical questions, using as much available data as possible. It may be called data-constrained theorizing.

Research Key Words

Biodiversity patterns, biodiversity policy, niche theory, conservation biology

Publications

Books

Peterson, A. T., et al. (2011). Ecological Niches and Geographic Distributions. In S. A. Levine & H. S. Horn (Eds.), *Monographs in Population Biology* (pp. 336). Princeton: Princeton University Press.

Sarukhán, J., et al. (2009). *Ecología de barrancas y arroyos: Capital natural de México. Parte II.*

Soberón, J., Halffter, G., & Llorente-Bousquets, J. (2008). Capital Natural de México: Conocimiento Actual de la Biodiversidad. In J. Sarukhán (Ed.), *Capital Natural de México* (Vol. 1). Mexico City: CONABIO.

Halffter, G., et al. (2005). Biological diversity. The significance of alpha, beta and gamma diversities. In *Monografías Tercer Milenio* (Vol. 4). Zaragoza: S.E.A., CONABIO, CONACyT, DIVERSITAS.

Soberón, J. (1989). Ecología de Poblaciones. In *La Ciencia Desde México*. México D. F.: Fondo de Cultura Económica.

Book Chapters

Soberón, J. (2014). The Global Biodiversity Information Facility: a case study of biodiversity data sharing. In W. Applequist & L. Campbell (Eds.), *DNA Banking for the 21st Century*. The William L. Brown Center at the Missouri Botanical Garden. pp. 153-164.
(Reviewed/Refereed) (Invited)

Soberón, J. (2010). Cambio Climático y la Biodiversidad de México. In M. J. Cárdenas (Ed.), *México Ante el Cambio Climático. Evidencias, Impactos, Vulnerabilidad y Adaptación* (pp. 30-33). México D. F: Greenpeace.

Körner, C., et al. (2009). Creative Use of Mountain Biodiversity Databases. In *Data Mining for Global Trends in Mountain Biodiversity* (pp. 171).

- Soberón, J., et al. (2009). La informática sobre la biodiversidad: datos redes y conocimiento. In V. M. Toledo (Ed.), *La Biodiversidad de México*. México D. F.: El Fondo de Cultura Económica.
- Soberón, J. (2009). Using Primary Biodiversity Data in Mountain Species Numbers Assessments. In *Data Mining for Global Trends in Mountain Biodiversity* (pp. 17).
- Koleff, P., et al. (2008). Patrones de diversidad espacial en grupos selectos de especies. In J. Soberón, G. Halffter, & J. Llorente (Eds.), *Capital Natural de México. Vol. I. Conocimiento Actual de la Biodiversidad* (pp. 323-364). Mexico: CONABIO.
- Peterson, A., et al. (2005). Modeling distributional shifts of individual species and biomes. In T. E. Lovejoy & L. Hannah (Eds.), *Climate Change and Biodiversity* (pp. 418). New Haven & London: Yale University Press.
- Soberón, J., Llorente, J., & Luis, A. M. (2005). Estimación del componente beta del número de especies de Papilionidae y Pieridae (Insecta: Lepidoptera) de México por métodos indirectos. In G. Halffter, et al. (Eds.), *Sobre Diversidad Biológica: El Significado de las Diversidades Alfa, Beta y Gama*. Zaragoza: Sociedad Entomológica Aragonesa.
- Koleff, P., Soberón, J., & Smith, A. (2004). Bosques de Pino-Encino de la Sierra madre. In R. Mittermeier, et al. (Eds.), *Hotspots: Biodiversidad Amenazada II*. Mexico: CEMEX, S. A. de C. V.
- Larson-Guerra, J., et al. (2004). Mexico: between legality and legitimacy. In S. Carrizosa, S. B. Wright, & P. McGuire (Eds.), *Accessing Biodiversity and Sharing Benefits: Lessons from Implementing the Convention on Biological Diversity* (pp. 124-152). Gland, Switzerland: IUCN Law Paper # 54.
- Soberón, J., & Golubov, J. (2004). Biotecnología y biodiversidad. In F. Bolívar (Ed.), *Fundamentos y Casos Exitosos de la Biotecnología Moderna* (pp. 299-316). México D. F.: El Colegio Nacional.
- Soberón, J., Davila, P., & Galubov, J. (2004). Targeting sites for biological collections. In R. D. Smith, et al. (Eds.), *Seed Storage: Turning Science into Practice*. London: Kew Royal Botanical Gardens.
- Soberón, J., Arriaga, L., & Lara, L. (2002). Issues of quality control in large, mixed-origin entomological databases. In H. Saarenmaa & E. Nielsen (Eds.), *Towards a Global Biological Information Infrastructure* (pp. 15-22). Copenhagen: European Environment Agency.
- Soberón, J., Huerta, E., & Arriaga, L. (2002). The use of databases to assess the risk of gene flow: the case of Mexico. In C. R. Roseland (Ed.), *LMOs and the Environment* (pp. 61-67). Paris: Organization for Economic Cooperation and Development.
- Sarukhán, J., Soberón, J., & Larson-Guerra, J. (1996). Biological conservation in a high beta-diversity country. In F. di Castri & T. Yunés (Eds.), *Biodiversity, Science and Development. Towards a New Partnership*. Cambridge, U.K.: CAB International and the International Union of Biological Sciences.
- Llorente, J., et al. (1994). Biodiversidad, su inventario y conservación: teoría y práctica en la

taxonomía alfa contemporánea. In *La Taxonomía en México en la Segunda Mitad del Siglo XX*.

Soberón, J., & Martínez del Río, C. (1985). Cheating and taking advantage in mutualistic associations. In D. Boucher (Ed.), *The Biology of Mutualism* (pp. 192-216). Oxford: Oxford University Press.

Journal Articles

Soberon, J., & Arroyo-Pena, B. (2017). Are fundamental niches larger than the realized? Testing a 50-year-old prediction by Hutchinson. *Public Library of Science ONE*, 12(4), e0175138. doi:doi.org/10.1371/journal.pone.0175138 (Reviewed/Refereed)

Soberon, J., Osorio-Olvera, L., & Peterson, T. (in press). Conceptual differences between ecological niche modeling and species distribution modeling. *Revista Mexicana de Biodiversidad*. doi:doi.org/10.1016/j.rmb.2017.03.011 (Reviewed/Refereed)

Osorio-Olvera, L., Falconi, M., & Soberon, J. (2016). On the relationship between habitat suitability and population abundance under different dispersal scenarios. *Revista Mexicana de Biodiversidad*, 87(3), 1080-1088. doi:doi.org/10.1016/j.rmb.2016.07.001 (Reviewed/Refereed)

Osorio-Olvera, L., Falconi, M., & Soberón, J. (2016). Sobre la relación entre idoneidad del hábitat y la abundancia poblacional bajo diferentes escenarios de dispersión. *Revista Mexicana de Biodiversidad*, 87(3), 1080-1088. (Reviewed/Refereed)

Pérez-Moreno, H., Martínez-Meyer, E., Soberón, J., & Rojas-Soto, O. (2016). Climatic patterns in the establishment of wintering areas by North American migratory birds. *Ecology and Evolution*, 6(7), 2022-2033. doi:doi: 10.1002/ece3.1973 (Reviewed/Refereed)

Qiao, H., Escobar, L., Saupe, E., Soberón, J., & Ji, L. (2016). A cautionary note on the use of hypervolume kernel density estimators in Ecological niche modeling. *Global Ecology and Biogeography*. doi:10.1111/geb.12492 (Reviewed/Refereed)

Qiao, H., Peterson, A. T., Campbell, L. P., Soberón, J., & Escobar, L. E. (2016). NicheA: Creating Virtual Species and Ecological Niches in Multivariate Environmental Scenarios. *Ecography*, 39, 1-9. doi:DOI: 10.1111/ecog.01961 (Reviewed/Refereed)

Qiao, H., Saupe, E., Soberón, J., Peterson, A. T., & Myers, C. (2016). Impacts of niche breadth and dispersal ability on macroevolutionary patterns. *American Naturalist*, 188(2), 149-162. (Reviewed/Refereed)

Peterson, A. T., Navarro-Siguenza, A. G., Martínez-Meyer, E., Cuervo-Robayo, A. P., Berlanga, H., & Soberon, J. M. (2015). Twentieth century turnover of Mexican endemic avifaunas: Landscape change versus climate drivers. *Science Advances*, 1(4), e1400071. (Reviewed/Refereed)

Peterson, A. T., Soberón, J. M., & Krishtalka, L. (2015). A global perspective on decadal challenges and priorities in biodiversity informatics. *BMC Ecology*, 15(1), 1-9. (Reviewed/Refereed)

- Qiao, H., Soberón, J. M., & Peterson, T. (2015). No silver bullets in correlative ecological niche modelling: insights from testing among many potential algorithms for niche estimation. *Methods in Ecology and Evolution*, *6*, 1126-1136. doi:10.1111/2041-210X.12397 (Reviewed/Refereed)
- Sarukhán, J., Urquiza-Haas, T., Koleff, P., Carabias, J., Dirzo, R., Ezcurra, E., Cerdeira-Estrada, S., & Soberón, J. (2015). Strategic actions to value, conserve, and restore the natural capital of megadiversity countries: the case of Mexico. *BioScience*, *65*(2), 164-173. doi:10.1093/biosci/biu195 (Reviewed/Refereed)
- Saupe, E. E., Qiao, H., Hendricks, J. R., Portell, R. W., Hunter, S. J., Soberón, J. M., & Lieberman, B. S. (2015). Niche breadth and geographic range size as determinants of species survival on geological time scales. *Global Ecology and Biogeography*. doi:10.1111/geb.12333 (Reviewed/Refereed)
- Soberón, J. M., & Peterson, A. T. (2015). Biodiversity Governance: A Tower of Babel of Scales and Cultures. *PLOS Biology*, *13*(3), e1002108-e1002108. (Reviewed/Refereed)
- Soberón, J. (2015). Pairwise versus presence–absence approaches for analysing biodiversity patterns. *Journal of Biogeography*, *42*(4), 807-808. (Reviewed/Refereed)
- Soberon, J. M., & Cavner, J. (2015). Indices of Biodiversity Pattern Based on Presence-Absence Matrices: A GIS Implementation. *Biodiversity Informatics*, *10*, 22-34. (Reviewed/Refereed)
- Manthey, J., Campbell, L., Saupe, E., Soberon, J., Hensz, C., Myers, C., Owens, H., Ingelhoff, K., Peterson, T., Barve, N., Lira-Noriega, A., & Barve, V. (2015). A test of niche centrality as a determinant of population trends and conservation status in threatened and endangered North American Birds. *Endangered Species Research*, *26*, 201-208. doi:doi:10.3354/esr00646 (Reviewed/Refereed)
- Brooks, T. M., Lamoreux, J., & Soberón, J. (2014). IPBES ≠ IPCC. *Trends in Ecology & Evolution*, *29*(10), 543–545. (Reviewed/Refereed)
- Lira-Noriega, A., & Soberon, J. (2014). The relationship among biodiversity, governance, wealth and scientific capacity at a country level: disaggregation and prioritization. *Ambio*. doi:doi:10.1007/s13280-014-0581-0 (Reviewed/Refereed)
- Sarukhan, J., Urquiza-Hass, T., Koleff, P., Dirzo, R., Ezcurra, E., Cerdeira-Estrada, S., & Soberon, J. (2014). Strategic Actions to Value, Conserve, and Restore the Natural Capital of Megadiversity Countries: The Case of Mexico. *BioScience*. doi:doi:10.1093/biosci/biu195 (Reviewed/Refereed)
- Soberón, J. (2014). Commentary on Ditch, Stitch and Pitch: the niche is here to stay. *Journal of Biogeography*, *41*, 414–417. (Reviewed/Refereed)
- Fautin, D., Malarky, L., & Soberón, J. (2013). Latitudinal diversity of sea anemones (Cnidaria:Actiniaria). *Biological Bulletin*, *224*, 89–98. (Reviewed/Refereed)
- Lira-Noriega, A., Soberón, J., & Miller, C. P. (2013). Process-based and correlative modeling of desert mistletoe distribution: a multiscale approach. *Ecosphere*, *4*:9. (Reviewed/Refereed)

- Villalobos, F. A., Lira-Noriega, A., Soberón, J., & Arita, H. (2013). Co-diversity and co-distribution in phyllostomid bats: evaluating the relative roles of climate and niche conservatism. *Basic and Applied Biology*, *15*, 85–91. (Reviewed/Refereed)
- Villalobos, F., Soberón, J., et al. (2013). Range–diversity plots for conservation assessments: Using richness and rarity in priority setting. *Biological Conservation*, *158*, 313-320. (Reviewed/Refereed)
- Arita, H. T., Soberón, J., et al. (2012). The presence–absence matrix reloaded: the use and interpretation of range–diversity plots. *Global Ecology and Biogeography*, *21*(2), 282-292. (Reviewed/Refereed)
- Menon, S., Soberón, J., et al. (2012). First-pass Global Assessment of Biodiversity Consequences of Sea Level Rise Mediated by Climate Change. *Climate Change*. (Reviewed/Refereed)
- Peterson, A. T., & Soberón, J. (2012). Integrating fundamental concepts of ecology, biogeography, and sampling into effective ecological niche modeling and species distribution modeling. *Plant Biosystems*, *146*(4), 789-796. (Reviewed/Refereed)
- Saupe, E. E., Soberón, J., et al. (2012). Variation in niche and distribution model performance: The need for a priori assessment of key causal factors. *Ecological Modelling*, *237-238*(0), 11-22. (Reviewed/Refereed)
- Soberón, J., & Martínez-Gordillo, D. (2012). Occupation of environmental and morphological space: climatic niche and skull shape in *Neotoma* woodrats. *Evolutionary Ecology Research*, *14*(4), 503-517. (Reviewed/Refereed)
- Barve, N., et al. (2011). The crucial role of the accessible area in ecological niche modeling and species distribution modeling. *Ecological Modelling*, *222*(11), 1810-1819. (Reviewed/Refereed)
- Jiménez-Valverde, A., et al. (2011). Dominant climate influences on North American bird distributions. *Global Ecology and Biogeography*, *20*, 114-118. (Reviewed/Refereed)
- Jiménez-Valverde, A., et al. (2011). Use of niche models in invasive species risk assessments. *Biological Invasions*, *13*(12), 2785-2797. (Reviewed/Refereed)
- Soberón, J., & Ceballos, G. (2011). Species richness and range size of the terrestrial mammals of the world: biological signal within mathematical constraints. *PLoS ONE*, *6*(5), e19359. (Reviewed/Refereed)
- Soberón, J., & Peterson, A. T. (2011). Ecological shifts and environmental space anisotropy: a cautionary note. *Revista Mexicana de Biodiversidad*, *82*, 1348-1355. (Reviewed/Refereed)
- Soberón, J. (2011). Review of: Mapping Species Distributions: Spatial Inference and Prediction. Ecology, Biodiversity and Conservation. By Janet Franklin. *The Quarterly Review of Biology*, *86*(3), 219-220. (Reviewed/Refereed)
- Jiménez-Valverde, A., et al. (2010). Marshalling existing biodiversity data to evaluate biodiversity status and trends in planning exercises. *Ecological Research*, *25*, 947-957. (Reviewed/Refereed)

- Menon, S., et al. (2010). Preliminary global assessment of terrestrial biodiversity consequences of sea-level rise mediated by climate change. *Biodiversity and Conservation*, 19(6), 1599-1609. (Reviewed/Refereed)
- Peterson, A. T., et al. (2010). The big questions for biodiversity informatics. *Systematics and Biodiversity*, 8(2), 159-168. (Reviewed/Refereed)
- Soberón, J. (2010). Niche and area of distribution modeling: a population ecology perspective. *Ecography*, 33, 159-167. (Reviewed/Refereed)
- Christen, A., & Soberón, J. (2009). Anidamiento y los análisis Rq y Qr en PAMs. *Miscelánea Matemática*, 49, 51-61. (Reviewed/Refereed)
- Gotelli, N. J., et al. (2009). Patterns and causes of species richness: a general simulation model for macroecology. *Ecology Letters*, 12(9), 873-886. (Reviewed/Refereed)
- Nakamura, M., & Soberón, J. (2009). Use of Approximate Inference in an Index of Completeness of Biological Inventories. *Conservation Biology*, 23(2), 469-474. (Reviewed/Refereed)
- Peterson, A. T., et al. (2009). The climate envelope may not be empty. *Proceedings of the National Academy of Sciences of the United States of America*, 106(16), E47-E47. (Reviewed/Refereed)
- Soberón, J. M., & Sarukhan, J. K. (2009). A new mechanism for science-policy transfer and biodiversity governance? *Environmental Conservation*, 36(4), 265-267. (Reviewed/Refereed)
- Soberón, J., & Nakamura, M. (2009). Niches and distributional areas: concepts, methods and assumptions. *Proceedings of the National Academy of Sciences USA*, 106, 19644-19650. (Reviewed/Refereed)
- Soberón, J., & Peterson, A. T. (2009). Monitoring Biodiversity Loss with Primary Species-occurrence Data: Toward National-level Indicators for the 2010 Target of the Convention on Biological Diversity. *Ambio*, 38(1), 29-34. (Reviewed/Refereed)
- Arita, H., et al. (2008). Species diversity and distribution in presence-absence matrices: mathematical relationships and biological implications. *American Naturalist*, 172(4), 519-532. (Reviewed/Refereed)
- Eaton, M. D., Soberón, J., & Peterson, T. (2008). Phylogenetic perspective on ecological niche evolution in American blackbirds (Family Icteridae). *Biological Journal of the Linnean Society*, 94(4), 869-878. (Reviewed/Refereed)
- Menon, S., et al. (2008). Preliminary analysis of the ecology and geography of the Asian nuthatches (Aves: Sittidae). *The Wilson Journal of Ornithology*, 120(4), 692-699. (Reviewed/Refereed)
- Peterson, A. T., Papeş, M., & Soberón, J. (2008). Rethinking receiver operating characteristic analysis applications in ecological niche modeling. *Ecological Modelling*, 213(1), 63-72. (Reviewed/Refereed)

- Korner, C., et al. (2007). Creative use of mountain biodiversity databases: The Kazbegi research agenda of GMBA-DIVERSITAS. *Mountain Research and Development*, 27(3), 276-281. (Reviewed/Refereed)
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- Ortiz-García, S., et al. (2005). Absence of detectable transgenes in local landraces of maize in Oaxaca, Mexico (2003–2004). *Proceedings of the National Academy of Sciences of the United States of America*, 102(35), 12338-12343. (Reviewed/Refereed)
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- Soberón, J., & Peterson, A. T. (2005). Interpretation of models of fundamental ecological niches and species' distributional areas. *Biodiversity Informatics*, 2, 1-10. (Reviewed/Refereed)
- Soberón, J., & Peterson, T. (2004). Biodiversity informatics: managing and applying primary biodiversity data. *Philosophical Transactions of the Royal Society of London. Series B: Biological Sciences*, 359(1444), 689-698. (Reviewed/Refereed)

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- Soberón, J., Llorente, J., & Benítez, H. (1996). An international view of national biological surveys. *Annals of the Missouri Botanical Garden*, 83, 562-573. (Reviewed/Refereed)
- Soberón, J., et al. (1995). Áreas protegidas y conservación in situ de la biodiversidad en México. *Gaceta Ecológica*, 7-15. (Reviewed/Refereed)
- Llorente, J., & Soberón, J. (1994). Hacia un debate de la taxonomía contemporánea en México. *Boletín de la Academia de la Investigación Científica en México*, 17, 37-42. (Reviewed/Refereed)
- Coello, G., Escalante, A., & Soberón, J. (1993). Lack of Genetic-Variation in *Lacandonia-Schismatica* (Lacandoniaceae, Triuridales) in Its Only Known Locality. *Annals of the Missouri Botanical Garden*, 80(4), 898-901. (Reviewed/Refereed)
- Soberón, J., & Llorente, J. (1993). The use of species accumulation functions for the prediction of species richness. *Conservation Biology*, 7, 480-488. (Reviewed/Refereed)
- Soberón, J. (1992). Island Biogeography and Conservation Practice. *Conservation Biology*, 6(2), 161. (Reviewed/Refereed)
- Negrete, J., Yankelevich, G., & Soberón, J. (1991). Juegos ecológicos y epidemiológicos; Environment and epidemiological games. *Lecturas*. (Reviewed/Refereed)
- Cordero, C. R., & Soberón, J. (1990). Non-resource based territoriality in males of the butterfly *Xamia xami* (Lepidoptera: Lycaenidae). *Journal of Insect Behavior*, 3(6), 719-732. (Reviewed/Refereed)
- Soberón, J. (1990). Deforestation and the Greenhouse-Effect. *Trends in Ecology & Evolution*, 5(2), 63-64. (Reviewed/Refereed)
- Soberón, J. (1990). Ecotecnología, predicción y ciencia. *Ciencias*, 65-74. (Reviewed/Refereed)
- Soberón, J., & Shapiro, E. (1989). Population-Dynamics of a Rhizobium-Legume Interaction - a Mathematical-Model. *Journal of Theoretical Biology*, 140(3), 305-316. (Reviewed/Refereed)
- Jiménez, G., & Soberón, J. (1988). Laboratory rearing of *Sandia xami xami* (Lycaenidae, Eumaeini). *J Res Lepid*, 27, 259-271. (Reviewed/Refereed)
- Soberón, J., et al. (1988). Patterns of oviposition by *Sandia xami* (Lepidoptera, Lycaenidae) in relation to food plant apparency. *Ecological Entomology*, 13(1), 71-79. (Reviewed/Refereed)
- Soberón, J., & Loevinsohn, M. (1987). Patterns of variations in numbers of animal populations and the biological foundations of Taylor's Law of the Mean. *Oikos*, 48, 249-252. (Reviewed/Refereed)
- Soberón, J. (1986). The relationship between use and suitability of resources and its consequence to insect population dynamics. *American Naturalist*, 127, 338-357. (Reviewed/Refereed)

Soberón, J., & Martínez del Río, C. (1981). The dynamics of a plant pollinator interaction. *Journal of Theoretical Biology*, 91, 363-378. (Reviewed/Refereed)

Commentaries

Soberón, M. J. (2010). Contrasting views on Mexico's national system of researchers. *Interciencia*, 35(3), 159.

Conference Proceedings

Soberón, J., & Koleff, P. (2000). The national biodiversity information system of Mexico. In P. Raven (Ed.), *Nature and Human Society: Proceedings of the 1997 Forum on Biodiversity* (pp. 625). Washington DC: National Academies Press. (Reviewed/Refereed)

Software

Owens, H., Soberón, J., et al. (2012). Constraints on Interpretation of Ecological Niche Models by Limited Environmental Ranges on Calibration Areas: Software Script Appendix.

Presentations

Keynote/Plenary Address

Soberón, J. (2016, December 2). *The role of data generation and analysis for mainstreaming biodiversity into sustainability: the role of monitoring, data sharing, modeling and scenarios*. 3rd Science for Biodiversity Forum, Cancun, Mexico. (Invited) (International)

Soberón, J. (2007, May 15). *Forecasting the loss of biodiversity*. Plenary Talk, Natural Science Collections Alliance, Washington, DC. (Invited)

Soberón, J. (2006, May 26). *Biological collections data and biodiversity management*. Keynote talk, Natural Science Collections Alliance, Albuquerque, New Mexico. (Invited)

Oral Presentation

Soberón, J. (2016, January 28). *Towards a Theory of the Area of Distribution and its Dynamics*. Department of Biology Seminar, U. of Florida at Gainesville, University of Florida at Gainesville. (Invited) (State)

Soberón, J. (2015, May). *Big Data in Ecology. Herbaria and Botanical Gardens and their Future*. Danish Academy of Sciences, Copenhagen. (Invited)

Soberón, J. (2014, May). *Should ecologists be envious of physicists?* Ecology Seminar. The Odum School of Ecology, University of Georgia. (Invited)

Soberón, J. (2013, January). *The Global Biodiversity Information Facility*. DNA Banking Workshop, Missouri Botanical Gardens. (Invited)

Soberón, J. (2012, September). *Challenges and approaches to monitoring biodiversity*. Workshop on Monitoring Ecosystem Degradation. Fondo Mexicano para la Conservación de la

- Naturaleza, Mexico. (Invited)
- Soberón, J. (2012, August). *From envy of physics to envy of computer sciences*. Ecological Society of America, Portland, Oregon. (Invited)
- Soberón, J. (2011, June 6). *Cambio climático, medio ambiente, biodiversidad y derecho*. Supreme Court of Mexico and El Colegio Nacional, Mexico D.F. (Invited)
- Soberón, J. (2010, October 13). *A complete analysis of some GBIF databases*. Global Biodiversity Information Facility Science Symposium, Suwon, South Korea. (Invited)
- Soberón, J. (2009, June 21). *Niche modeling: assumptions, limitations and uses*. The Role of Natural History Collections in Contemporary Systematic Biology, Fairbanks, Alaska. (Invited)
- Soberón, J. (2009, June 3). *Whither is fled the visionary gleam?* E-Biosphere 09. International Conference on Biodiversity Informatics, London, UK. (Invited)
- Soberón, J. (2008, December 13). *Grinnell's niche concept and its impact*. NAS Sackler Colloquium Biogeography, Changing Climates and Niche Evolution, Irvine, California. (Invited)
- Soberón, J. (2008, June 25). *Climate change and its expected impacts upon North America*. North America 2030. An Environmental Outlook, Ottawa, Canada. (Invited)
- Soberón, J. (2008, May 16). *Challenges and approaches in the mega-diversity countries of the south*. Biodiversity Research –Safeguarding the Future (pre-Conference of the Parties of the Convention on Biological Diversity), Bonn, Germany. (Invited)
- Soberón, J. (2007, November 14). *Toma de decisiones y las escalas de la biodiversidad*. Congreso Español de Biodiversidad, Segovia, Spain. (Invited)
- Soberón, J. (2007, November 7). *Hacia un cambio de paradigma en la biología de la conservación*. VII Congreso Venezolano de Ecología, Ciudad Guayana, Venezuela. (Invited)
- Soberón, J. (2007, October 19). *Primary biodiversity data and policymaking: the role of museums*. Natural History Museums and Institutions in the 21st Century, Paris. (Invited)
- Soberón, J. (2007, October 8). *Alpha and beta diversities in presence-absence matrices*. Modeling Species Richness. NCEAS working group, Santa Barbara, California. (Invited)
- Soberón, J. (2007, July 17). *Hotspots and conservation: a misleading paradigm*. Association for Tropical Biology and Conservation Annual Congress, Morelia, Mexico. (Invited)
- Soberón, J. (2007, June 11). *Placement of protected areas and nature corridors in Mexico*. Adaptive Management in the Age of Global Change, Conservation and Climate Change. Harvard, Lincoln Institute of Land Policy. (Invited)
- Soberón, J. (2007, January 31). *Use of science in articulating national policy for biodiversity conservation and sustainable use in Mexico*. North American consultation for an International Mechanism of Scientific Expertise on Biodiversity (IMoSEB), Montreal,

- Canada. (Invited)
- Soberón, J. (2006, September 5). *Navigating the scales: an ecologist's view of sustainability*. 2020 Science Forum, Microsoft Research, Venice. (Invited)
- Soberón, J. (2006, July 30). *Getting altitude-referenced databases from distributed providers: issues of quality control*. Global Mountain Biodiversity Assessment, Kazbegi, Georgia. (Invited)
- Soberón, J. (2006, January 14). *Sharing biodiversity data: ought to be done, can be done, and it is extremely useful*. Cyberinfrastructure for International Biodiversity Research Collaboration, Panama City. (Invited)
- Soberón, J. (2005, November). *Applications of primary biodiversity data to policy and management in Mexico*. departmental seminar, University of Wyoming. (Invited)
- Soberón, J. (2005, October 7). *Use and limits of niche modeling for biodiversity management*. Department of Biological Sciences, University of Idaho. (Invited)
- Soberón, J. (2005, July 24). *Factors influencing distributional areas and niche modeling*. Changing Climate: Assessing Uncertainties, Aspen Global Change Institute, Aspen, Colorado. (Invited)
- Soberón, J. (2005, May 13). *The role of scientific assessments in the work of the CBD*. Implementation and Effectiveness of the Convention on Biological Diversity, Chatham House, London. (Invited)
- Soberón, J. (2004, September 30). *The difference between biopiracy and bioprospection: a reflection based on the Mexican experience*. 16th International Genome Sequencing & Analysis Conference, The Institute for Genomic Research, Washington, DC. (Invited)
- Soberón, J. (2004, June 6). *Biodiversity conservation where it matters*. Botanic Gardens: Awareness for Biodiversity, Berlin. (Invited)
- Soberón, J. (2004, April). *Translating the diversity of life*. Gardening the Earth, Environmental Policy Forum, Aspen, Colorado. (Invited)
- Soberón, J. (2004, January 20). *On the problem of applying science to conservation in a developing country*. General Assembly, International Union of Biological Sciences, Cairo, Egypt. (Invited)
- Soberón, J. (2003, December 4). *Management of biodiversity data*. Sustainable Use and Conservation of Biological Diversity – A Challenge for Society, Global Biodiversity Information Facility, Berlin, Germany. (Invited)
- Soberón, J. (2003, September 13). *Los sistemas de información sobre biodiversidad*. Real Sociedad Española de Historia Natural, La Coruña, Spain. (Invited)
- Soberón, J. (2003, May 23). *Niche, interactions and history: calculating a species' distribution range*. Science Symposium, Global Biodiversity Information Facility, Copenhagen. (Invited)

- Soberón, J. (2002, November 27). *Niches and species distribution range*. Department of Biological Sciences, Imperial College, Silwood Park, Ascot Berkshire, UK. (Invited)
- Soberón, J. (2002, September 16). *International access to biodiversity data*. VI International Congress of Systematic and Evolutionary Biology, Patras, Greece. (Invited)
- Soberón, J. (2002, June 8). *Bioinformatics for biodiversity*. Natural Science Collections Alliance, Washington, DC. (Invited)
- Soberón, J. (2002, May 9). *Estrategias para la obtención y uso de información sobre biodiversidad en México*. International Symposium – Catalogue of Life: Towards a Integrative of Biodiversity on Earth, Madrid, España. (Invited)
- Soberón, J. (2002, April 5). *The use of biodiversity data to inform public policy in Mexico*. 2002 Red Clay Conference, Athens, Georgia. (Invited)
- Soberón, J. (2002, March 22). *Environmental risk assessment in Mexico: a case study*. North American Plant Protection Organization (NAPPO), Puerto Vallarta, Mexico. (Invited)
- Soberón, J. (2001, November 30). *Risk assessment of gene flow to wild relatives from LMOs: the case of North America*. LMOs and the Environment: An International Conference, Durham, NC. (Invited)
- Soberón, J. (2001, August). *Targeting sites for biological collections*. Millenium Seed Bank, Wakehurst Place, UK. (Invited)
- Soberón, J. (2001, June). *Museum data: fossilized or living information?* Plenary Conference (with José Sarukhán), Association for Systematics Collections, Chicago. (Invited)
- Soberón, J. (2001, March). *Biodiversity information in a globalized world*. Canadian Biodiversity Network, Ottawa. (Invited)
- Soberón, J. (2001, February 16). *El Sistema Nacional de Información sobre Biodiversidad*. Red Iberoamericana de Biogeografía y Entomología Sistemática, São Paulo, Brazil. (Invited)
- Soberón, J. (2000, November). *Use of specimen databases for macroecological research*. Imperial College, Silwood Park, Ascot Berkshire, UK. (Invited)

Other Presentations

- Soberón, J. (2001, June 27). *Providing biodiversity information to multiple users: the case of CONABIO*. Second Workshop on Metadiversity, Charleston, SC. (Invited)

Presentation

- Soberon, J. (2015, April). *Standing on the Shoulders of Hutchinson: Towards a Practical Theory of Niches and Areas*. University of Wyoming. (Invited) (State)
Invitation by a graduate students committee of the U. of Wyoming
- Soberón, J. (2014). *The meaning of the fundamental niche*. Odum School of Ecology, University of George, Athens, GA.

Soberón, J. (2003, December 5). *Assessing invasive species routes. An Unwelcome Dimension of Trade: The Impact of Invasive Species in North America*, Commission for Environmental Cooperation, Miami. (Invited)

Short Course

Soberon, J. *Niches and Areas; Hutchinson's Inequalities; Dynamics of Areas of Distribution (in Spanish)*. Curso Avanzado de Teoria del Nicho (Advanced Course of Niche Theory), Xalap, Ver. Mexico. (Invited) (International)

Research Funding/Fellowships

University of Kansas

Externally-Funded Grant/Contract

Funded

Soberon, J. (Co-Principal). *Collaborative Research: Connecting resources to enable large-scale biodiversity analyses*. National Science Foundation \$609,564 (July 15, 2015 - June 30, 2018).

Soberón, J. (Co-Principal), Lira, A. (Co-Principal), & Krishtalka, L. (Co-Principal). *Biodiversity Capacity in Africa*. JRS Biodiversity Foundation \$9,500 (2013).

Soberón, J. (Principal). *Collaborative Research: ARBOR: Comparative Analysis Workflows for the Tree of Life*. National Science Foundation \$600,000 (2012).
\$4,660,156 (\$600,000 to J. Soberon)

Soberón, J. (Principal). *Avian Influenza Risk Assessment for the United States*. US Department of Agriculture \$200,019 (2007).

Soberón, J. (Principal). *Ecological Niche Modeling in Theory and Practice*. Microsoft Research \$550,000 (2007).

Soberón, J. (Co-Principal), Beach, J. (Co-Principal), & Stewart, A. (Co-Principal). *Collaborative Research: ABI Development: Transforming Biodiversity Analysis with Landscapes, Automation, and Provenance*. National Science Foundation \$798,568 (2003).

Proposal Submitted

Soberon, J. (Co-Principal), Beach, J. (Principal), & Stewart, A. (Co-Principal). *Collaborative Proposal: MSB-FRA: Future of North American Flora: Predicting Diversity and Extinction Resulting from Climate Change, Dispersal and Land Use*. National Science Foundation \$587,194, Submitted October 17, 2016 (July 1, 2017 - June 30, 2019).

Not Funded

Alexander, W. P. (Principal), Gill, A. (Co-Principal), Moyle, R. (Co-Principal), Peterson, A. T. (Co-Principal), & Soberon, J. (Co-Principal). *CyberSEES: Type 2: Diffusion of Components of Biodiversity in Complex Landscapes*. National Science Foundation \$1,183,861, Submitted

February 24, 2015 (October 1, 2015 - September 30, 2019).

Soberon, J. (Principal). *OPUS: The areal and biogeographic patterns of species distributions: a Computational Theory*. National Science Foundation \$175,166, Submitted July 28, 2016 (July 1, 2017 - June 30, 2019).

Soberon, J. (Principal), Beach, J. (Co-Principal), & Stewart, A. (Co-Principal). *Collaborative Proposal:MSB-FRA: Predicting Extinction Vulnerability of North America Flora Due to Climate Change and Land Use*. National Science Foundation \$581,381, Submitted March 15, 2016 (November 1, 2016 - October 31, 2018).

Universidad Nacional Autónoma de México

Externally-Funded Grant/Contract

Funded

Soberón, J. *Digitization and Data Quality Control of Missouri Botanical Garden Mesoamerican Specimens, and GBIF Meeting*. Global Biodiversity Information Facility \$84,950 (2003).

Soberón, J. (Principal). *Digitization of Specimens of Medical Entomology Collections*. Fundación Gonzalo Río Arronte \$181,818 (2003).

Soberón, J. (Principal). *Sustainable Use of Guaiacum sanctum*. U.S. Forest Service \$14,114 (2003).

Soberón, J. (Principal). *Adaptation and Translation of the e-Bird System*. Cornell University \$47,053 (2002).

Soberón, J. (Principal). *Invasive Species Workshop*. U.S. Geological Survey \$28,628 (2002).

Soberón, J. (Principal). *Mesoamerican Biological Corridor, Mexico*. Global Environmental Facility/World Bank \$15,000,000 (2002).

Soberón, J. (Principal). *All Species Foundation Workshop*. All Species Foundation \$20,667 (2001).

Soberón, J. (Principal). *All Species Foundation Workshop*. Center for Applied Biodiversity Science \$20,667 (2001).

Soberón, J. (Principal). *Biodiversity Strategy for the State of Morelos*. Government of the State of Morelos \$58,333 (2001).

Soberón, J. (Principal). *Ecological Restoration of 'La Pedrera'*. Secretaría de Medio Ambiente y Recursos Naturales \$10,333,664 (2001).

Soberón, J. (Principal). *Mesoamerican Biological Corridor, Mexico*. World Bank \$12,904,000 (2000).

Soberón, J. (Principal). *National Biodiversity Information System*. Consejo Nacional de Ciencia y Tecnología (CONACyT, Mexico's national science foundation) \$925,756 (1999).

- Soberón, J. (Principal). *Workshop on Access and Benefit Sharing*. Swiss Agency for the Environment, Forests and Landscape \$85,181 (1999).
- Soberón, J. (Principal). *Ecosystem Monitoring*. World Wildlife Fund \$19,591 (1998).
- Soberón, J. (Principal). *Incentives for Conservation Workshop*. United Nations Development Program, Nairobi Office \$23,958 (1998).
- Soberón, J. (Principal). *Wildfire Detection Program and Collective Resources*. Fondo Mexicano para la Conservación de la Naturaleza, A.C. \$643,282 (1998).
- Soberón, J. (Principal). *Wildlife Management Training Program for SEMARNAT and PROFEPA*. U.S. Fish and Wildlife Service \$132,478 (1998).
- Soberón, J. (Principal). *Marine Priority Regions for Conservation of Mexico I*. Lucile Packard Foundation \$35,467 (1997).
- Soberón, J. (Principal). *Marine Priority Regions for Conservation of Mexico II*. United States Embassy \$38,669 (1997).
- Soberón, J. *North American Biodiversity Conservation Program, Mexico*. Commission for Environmental Cooperation \$369,874 (1997).
- Soberón, J. (Principal). *Preparation of the National Biodiversity Strategy and the Mesoamerican Corridor Programs*. United Nations Development Program-Global Environmental Facility \$194,059 (1997).
- Soberón, J. (Principal). *The Biodiversity Consequences of Global Climate Change*. DEB-9711621, National Science Foundation, Methods and Models for Integrated Assessment \$350,000 (1997).
- Soberón, J. (Principal). *Restoration of the Protected Area "Parque Ecológico de la Ciudad de Mexico" I*. Government of the City of Mexico \$234,000 (1992).
- Soberón, J. (Principal). *Restoration of the Protected Area "Parque Ecológico de la Ciudad de Mexico" II*. Government of the City of Mexico \$300,000 (1991).
- Soberón, J. (Principal). *Population Dynamics of Sandia xami in the Pedregal of San Angel, Mexico*. DAFRHU/CONACyT \$20,000 (1986).

Teaching Interests (Statement)

I teach mostly topics related to quantitative and mathematical ecology. Multivariate Methods, Population Ecology (theory), mathematical modeling. My philosophy of teaching is simple: I like students to understand the fundamentals and to be able to do things. Therefore I emphasize a "workshop" mode of teaching, with everybody in a computer actually doing things with data. On the other hand, I like telling stories related to the subject topic, and my point of view about things.

Teaching Key Words

Focus on the fundamentals; Emphasize doing; Provide historical context; Enjoy the subject; Be rigorous with methods, language and concepts

Dissertation/Thesis Supervision

University of Kansas

Doctoral Advisory Committee Advisor

Baruch Arroyo-Peña, PhD originally., Status: completed. 2011 - January 2015
Got an MA.

Doctoral Advisory Committee Member

Chet P Battha, PhD, Status: in progress. 2014 - Present
Sumudu Fernando, PhD, Status: in progress. 2014 - Present
Thilina de Silva, PhD, Status: in progress. 2014 - Present
Marianna Simoes, PhD, Status: in progress. 2013 - Present
Abdallah Samy, PhD, "Disease Ecology and modeling" Status: in progress. 2012 - Present
Lindsay Campbell, PhD, "PhD" Status: completed. Fall 2010 - 2016
Narayani Barve, Status: completed. 2010 - 2015

Doctoral Committee Advisor

Laura Jimenez, PhD, Status: in progress. 2015 - Present
Chris Hensz, PhD, Status: in progress. 2010 - Present

Master's Advisory Committee Member

Tashitso Zachicuo, M.A., "Diversity of vertebrates in the Himalayas" Status: completed.
2013 - Present
Rachel Guyer, MA, Status: completed. 2014 - 2016

Master's Thesis Committee Chair

Jacob Cooper, M.S., Department of Ecology and Evolutionary Biology, "Large-scale Ecology of Hummingbird and Heliconia Interactions" Status: completed. 2013 - May 2, 2016
To complete degree 2016.
Victor Baruch Arroyo-Peña, M.S., Department of Ecology and Evolutionary Biology, Status: completed. 2011 - 2015
CONACyT Dissertation Fellowship recipient.

Undergraduate academic mentor Mentor

Kody Gauthier, Help the student to cope with a challenging personal situation, Status: completed. January 2016 - May 2016

Undergraduate Student Research Advisor

Diego Barragán Diaz, Status: completed. Spring 2015
Hispanic American Student
Robert Ramos. Fall 2013
Hispanic American student
Cesalea Osborne, Status: completed. Summer 2012
Native American student
Jessica Rodriguez, "Native American student" Status: completed. Summer 2011

National University of Mexico

Doctoral Committee Member

Carlos Luna, Doctoral Student, Status: in progress. 2015 - Present

Luis Osorio, Doctoral Student, Status: in progress. 2015 - Present

Universidad Nacional Autónoma de México**Doctoral Advisory Committee Advisor**

Andrés Lira-Noriega, Status: completed. 2014

Presently Investigador, Instituto de Ecología, Xalapa, Ver. Mexico.

Consuelo Bonfil, Ph.D., Status: completed. 1998

Presently Profesor de Carrera [= Professor], Facultad de Ciencias, Universidad Nacional Autónoma de México

Carlos Cordero, Ph.D., Status: completed. 1998

Presently Investigador Titular [= Full Professor], Instituto de Ecología, Universidad Nacional Autónoma de México

Zenón Cano, Ph.D., Status: completed. 1994

Presently Profesor de Carrera [= Professor], Facultad de Ciencias, Universidad Nacional Autónoma de México

Master's Advisory Committee Advisor

Jorge León, M.S., Status: completed. 1995

Presently Investigador Titular [=Full Professor], Colegio de la Frontera Sur, San Cristóbal, México

Betty Benrey, M.S., Status: completed. 1986

Presently Research Leader, Laboratory of Animal Ecology and Entomology, Institute of Zoology, University of Neuchâtel

Undergraduate Thesis Advisor

Enrique Montero, Status: completed. 1994

Presently outside science

Aquiles Negrete, Status: completed. 1991

Presently Docente [= Instructor], Instituto Tecnológico de Monterrey, Campus México

Paulina Parlange, Status: completed. 1991

Presently outside science

Alfredo Arellano, Status: completed. 1988

Presently, Regional Director, Comisión Nacional de Areas Naturales Protegidas (= National Protected Areas Commission), México

Gabriela Jiménez, "Presently Technician, Museo Universitario de Ciencia, Universidad Nacional Autónoma de México" Status: completed. 1987

Edna Shapiro, Status: completed. 1987

Presently outside science

Alfonso Alonso, Status: completed. 1986

Presently Director of Conservation, Center for Conservation Education and Sustainability, U.S. National Zoological Park

Carlos Cordero, Status: completed. 1986

Academic Student Advising

7 graduate students advised. (January 2016 - December 2016)

I am frequently asked questions of statistical nature, as well as questions related to the R

programming language. I do not keep a detailed record of how many times I answer questions.

1 undergraduate student, 3 graduate students advised. (January 1, 2014 - December 20, 2014)
Discussion of papers, advice on statistics, programming, review of presentations, publications...

Academic Advisees

Graduate

Laura Jimenez, PhD, August 2015 - Present. Graduate Student Primary Program Advisor

Chris Hensz, PhD, 2010 - Present. Graduate Student Primary Program Advisor

Jacob Cooper, M.Sc., 2013 - April 20, 2016. Graduate Student Primary Program Advisor

Victor B. Arroyo, M.A., 2011 - April 2015.

Andres Lira-Noriega, PhD, April 2007 - April 2014.
With A. T. Peterson

Consuelo Bonfil, PhD, 1994 - 1998.
National University of Mexico (UNAM). Currently a full time professor at the school of Sciences,

Carlos Cordero, PhD, 1994 - 1998. Graduate Student Primary Program Advisor
National University of Mexico (UNAM). Currently full time researcher, Instituto de Ecologia, UNAM

Zenon Cano, PhD, 1985 - 1994. Graduate Student Primary Program Advisor
Universida Nacional de Mexico (UNAM). Currently full time professor at the Scholl of Sciences, UNAM

KU Courses Taught (past five years)

Spring 2017

BIOL 985-57470, Advanced Study
BIOL 999-57473, Doctoral Dissertation

Fall 2016

BIOL 630-26176, Conservatn and Wildlife Biolgy
BIOL 999-17764, Doctoral Dissertation

Summer 2016

BIOL 999-85036, Doctoral Dissertation

Spring 2016

BIOL 899-58107, Master's Thesis
BIOL 985-58110, Advanced Study
BIOL 999-58113, Doctoral Dissertation

Fall 2015

BIOL 899-18441, Master's Thesis
BIOL 943-33501, Multivariate Data Analysis
BIOL 985-18444, Advanced Study
BIOL 999-18447, Doctoral Dissertation

Summer 2015

BIOL 899-87202, Master's Thesis
BIOL 999-85523, Doctoral Dissertation

Spring 2015

BIOL 424-58945, Independent Study
BIOL 701-70677, Topics in: Policy & Data in Conservation
BIOL 999-58954, Doctoral Dissertation

Fall 2014

BIOL 630-25651, Conservatn and Wildlife Biolgy
BIOL 899-19246, Master's Thesis
BIOL 985-19250, Advanced Study
BIOL 999-19254, Doctoral Dissertation

Summer 2014

BIOL 899-88325, Master's Thesis
BIOL 999-86145, Doctoral Dissertation

Spring 2014

BIOL 985-59845, Advanced Study
BIOL 999-59848, Doctoral Dissertation

Fall 2013

BIOL 943-29026, Multivariate Data Analysis
BIOL 985-20160, Advanced Study
BIOL 999-20164, Doctoral Dissertation

Summer 2013

BIOL 999-86825, Doctoral Dissertation

Spring 2013

BIOL 701-68324, Topics in: Advanced Topic in Biogeography
BIOL 985-60748, Advanced Study
BIOL 999-60752, Doctoral Dissertation
LAA 302-63225, Topcs Latin American Area Std: Model Organizatn Amercn States

Fall 2012

BIOL 420-29935, Seminar: Global Biodiversity Patterns
BIOL 701-29936, Topics in: Global Biodiversity Patterns
BIOL 985-21073, Advanced Study
BIOL 999-21077, Doctoral Dissertation

Summer 2012

BIOL 999-87539, Doctoral Dissertation

Summary List of Courses Taught

University of Kansas (Spring 2015 - Present)

4152-70677: 2015 Spring-BIOL 701 Topics in: Policy & Data in Conservation

University of Kansas (Fall 2016)

Fall 2016 BIOL 630 (with Helen Alexander, 3 credits) Conservation and Wildlife Biology

University of Kansas (Fall 2014)

4149-25651: 2014Fall-BIOL 630 Conservation and Wildlife Biology

University of Kansas (Fall 2013)

4139-29026: 2013Fall-BIOL 943 Multivariate Data Analysis

University of Kansas (Spring 2013)

LAA302-005: Topics in Latin American Studies (OAS)

University of Kansas (Fall 2012)

BIOL420-BIOL701-016: Global Diversity Patterns

University of Kansas (Spring 2012)

LAA602-001: MOAS

University of Kansas (Fall 2011)

BIOL944-001: Topics in Quantitative Ecology (Population Ecology)

University of Kansas (Fall 2010)

BIOL701-009: Biodiversity Counts. Measuring Biodiversity Patterns

University of Kansas (Fall 2009)

BIOL000-910: Theoretical Ecology

(Fall 2011)

EVRN720-BIOL701-001: Climates and Borders

Professional or Non-Credit Instruction

Seminar

A weekly seminar run by A. T. Peterson and myself for the last 10 years. (2010 - Present).

Service Interests (Statement)

Mostly I serve both in the Biodiversity Institute and the EEB committees, and in a large number of international boards and panels.

University Service

University of Kansas

Member

Committee on Distinguished Professorships. (2016)
 Executive Committee, Biodiversity Institute. (2016)
 Executive Committee, Center for Latin American Studies and the Caribbean. (2016)
 Promotions & Tenure, Biodiversity Institute. (2016)
 Promotions & Tenure, Ecology and Evolutionary Biology. (2016)
 The Commons. (2016)

Universidad Nacional Autónoma de México

Member

Academic Commission, Centro de Ingeniería Genética y Biotecnología. (1989 - 1992)
 Academic Commission, Instituto de Ecología. (1987)

Department Service

University of Kansas

Ecology & Evolutionary Biology

Member (Appointed)

Theoretical Ecologist Search Committee.
 Promotions and Tenure. (2013 - Present)

Universidad Nacional Autónoma de México

Departamento de Biología

Member

Academic Commission. (1993 - 1994)
 Academic Commission. (1989 - 1990)

Professional Service

Editorial Responsibilities

Editor, Associate

Ecography, (Appointed) Area editor for *Ecography*. I assign reviewers and oversee that MS are reviewed efficiently and fairly, Copenhagen, Denmark. I manage about 6 or 8

manuscripts per year (2014 - Present)
Biodiversity Informatics, (Appointed). (2016)

Editor, Associate

Biodiversity Informatics, (Elected), Lawrence, KS, USA. I am one of the two Associated Editors for the Journal (2010 - Present)

Other Professional Service

Advisory Committee Member

(Appointed) CONABIO, Mexico, DF, Mexico. Attend one meeting every two years (Spring 2012 - Present)

Board Member

Governing Board, Global Biodiversity Information Facility. (2000 - 2008)

Scientific Advisory Board, World Conservation Monitoring Centre, Cambridge, UK. (2000 - 2005)

Program Advisory Board, "Root Causes of Biodiversity Loss," World Wildlife Fund/Global Environmental Facility. (1997 - 1999)

Board Member

(Appointed) National Museum of Natural History (Smithsonian Institution), Washington, DC. Attend Advisory Board meetings (April 2010 - Present)

(Appointed) Monitoring REDD+ in Mexico, Mexico, DF, Mexico. Attend a meeting a year (Spring 2013 - Fall 2015)

Board of Advisors

National Ecological Observatory Network. (2003 - 2006)

Board of Advisors

Science Committee of the Mexican Agency for Environmental Security of PEMEX, the National Oil Company, (Appointed), Mexico, DF, Mexico. We provide advice to the Director on issues of environmental impact assessment on PEMEX activities (December 2015 - December 2018)

Board of Directors

ProNatura Mexico (largest environmental NGO in Mexico). (1989 - Present)

JRS Biodiversity Foundation. (2006 - 2013)

NatureServe, Arlington, VA. (1999 - 2003)

All Species Foundation, San Francisco. (2000 - 2002)

Chair

Scientific Committee, Reserva Ecológica "El Pedregal". (1986 - 1992)

Co-Chair

(Elected) Global Biodiversity Information Facility, Copenhagen, Denmark. I am the First Vice Chair. I read documents, participate in meetings, chair sessions... (Spring 2012 - Present)

First Vice-Chair

Science Committee, Global Biodiversity Information Facility. (2005 - 2008)

Member

Scientific Advisory Council, The Nature Conservancy. (April 2009 - Present)
 U.S. National Committee, DIVERSITAS. Nominated by the U.S. National Academy of Sciences. (April 2007 - April 2013)
 Science Committee, Discovery Core Project, DIVERSITAS. (September 2007 - 2010)
 Coordinating Mechanism, Global Taxonomy Initiative. (2006 - 2008)
 Evaluating Commission, Fondo Sectorial para Investigación en el Ambiente, Secretaría de Medio Ambiente y Recursos Naturales/CONACyT. (2001 - 2005)
 Governing Council, International Centre for Insect Physiology and Ecology (ICIPE), Nairobi. (1998 - 2003)
 Steering Committee, North American Biodiversity Information Network (NABIN), Commission for Environmental Cooperation, Montreal. (1997 - 2000)
 Transition Task Force, World Conservation Monitoring Centre, Cambridge, UK. (1999)
 Scientific, Technical and Advisory Panel (STAP), Global Environment Facility (GEF), (1995 - 1997)

Member of the Scientific Advisory Committee

(Appointed) The Nature Conservancy, Arlington, VA. Participate in one meeting per year. Occasionally read and comment on documents (Spring 2012 - Spring 2017)

President

Consejo Consultivo de la Catedra en Desarrollo Sustentable “Andrés Marcelo Sada,” Instituto Tecnológico de Monterrey (directed endowed program). (2002 - 2013)

Project Coordinator

Restauración Ecológica del Ajusco Medio. (1989 - 1995)

Reviewer, Grant Proposal

(Appointed) CONACyT (Mexico), Mexico, DF, Mexico. Reviewer of two research proposals for CONACyT (2016)
 (Appointed) Israel Science Foundation, Israel. Reviewer of a project to the ISF (2016)
 (Appointed) Netherlands Organization for Scientific research, The Netherlands. (2016)

Reviewer, Journal Article

Science Advances. (2016)
Ecology Letters. (2015)

Reviewer, Journal Article

Biological Invasions, (Appointed). (2016)
Current Opinion in Environmental Sustainability, (Appointed). (2016)
Ecography, (Appointed). (2016)
Ecology Letters, (Appointed). (2016)
Global Ecology and Biogeography, (Appointed). (2016)
Global Ecology and Biogeography, (Appointed). (2016)
Nature Communications, (Appointed). (2016)
PeerJ, (Appointed). (2016)
PLOS Biology, (Appointed). (2016)
PLOS ONE, (Appointed). (2016)
Revista Mexicana de Biodiversidad, (Appointed). (2016)

Science, (Appointed). (2016)
Trends in Ecology and Evolution (TREE), (Appointed). (2016)

Scientific Vice President
ProNatura Mexico (largest environmental NGO in Mexico). (2000 - 2005)

Technical Secretary
Fondo para la Biodiversidad, Mexico. (~\$4M US per year resources), (1992 - 2005)

Service Presentations

Soberon, J. (2016, October 6). *Distributional Ecology. Metapopulations*. Dan Reuman & Sharon Billings, KU. (Invited)

Soberon, J. (2016, August 10). *The United States and Mexico*. Plymouth Congregational Church, Lawrence, KS. (Invited)