CURRICULUM VITAE - INÉS IBÁÑEZ

School of Natural Resources and the Environment
and Department of Ecology and Evolutionary Biology
University of Michigan
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PROFESSIONAL EXPERIENCE AND EDUCATION:

- From January 2008. Assistant Professor, School of Natural Resources and the Environment, University of Michigan.
- University of Connecticut, posdoctoral research scientist, 2006-2007.
- Duke University, research associate, 1999-2000.

-Ph.D. Ecology. 2006. Duke University
-M.S. Range Sciences. 1998. Utah State University
-B.S. Biology (Botany). 1993. Universidad Complutense de Madrid. Licenciatura de Grado. 1994.

PUBLICATIONS:

Ibáñez, I., Clark, J.S. and Dietze, M. *In Press*. Evaluating the sources of potential migrant species. Implications under climate change. *Ecological Applications.*

Silander, J.A.Jr., **Ibáñez**, I. and Merhoff, L.J. 2007. The Biology and Ecology of Invasive Species – the Importance of International Collaboration in Predicting the Spread of Invasive Species. Proceedings of the NIAES International Symposium (Tsukuba, Japan): 8-17.

Ibáñez, I., Clark, J.S., LaDeau, S., and Hille Ris Lambers, J. 2007. Exploiting temporal variability to understand tree recruitment response to climate change. Ecological Monographs 77(2):163-177.

Clark, J.S., Wolosin, M.S., Dietze, M.C., **Ibáñez, I.**, LaDeau, S.L., Welsh, M., and Koepple, B. 2007. Tree growth inference and prediction from diameter censuses and ring widths. Ecological Applications 17(7): 1942-1953.

Clark, J.S., Dietze, M., Chakraborty, S., Agarwal, P., **Ibáñez, I.**, LaDeau, S., and Wolosin, M. 2007. Resolving the biodiversity paradox. Ecology Letters:10: 647-662.

Ibáñez, I., Clark, J.S., Dietze, M.C., Feeley, K., Hersh, M., LaDeau, S., McBride, A., Welch, N.E., and Wolosin, M.S. 2006. Predicting biodiversity change: Outside the climate envelope, beyond the species-area curve. Ecology 87(8):1896-1906.

Clark, J. S., S. LaDeau, and I. **Ibáñez**. 2004. Fecundity of trees and the colonization-competition hypothesis, Ecological Monographs 74(3):415-442.

Clark, J. S., Mohan, J. Dietze, M. and **Ibáñez**, I. 2003. Coexistence: How to identify trophic trade-offs. Ecology 84(1):17-31.

Ibáñez, I., Schupp, E.W. 2002. Effects of litter, soil surface conditions, and microhabitat on *Cercocarpus ledifolius* Nutt. Seedling emergence and establishment. Journal of Arid Environments 52(2):209-221.

Clark J. S, Beckage B, HilleRisLambers J, **Ibáñez** I, LaDeau S, MacLachlan J, Mohan J, Rocca M. 2002. Dispersal and plant migration. In: Mooney H, Canadell J, editors. Encyclopedia of Global Environmental Change, Vol. 3. Chichester UK:Wiley and Sons. p. 81-93.

Ibáñez, I., Schupp, E.W. 2001. Positive and negative interactions between environmental conditions affecting *Cercocarpus ledifolius* seedling survival. Oecologia 129(4):543-550.

Ibáñez, I., Schupp, E.W., and Boettinger, J.L. 1999. Successional History of a Curlleaf Mountain Mahogany Stand: a Hypothesis. In: McArthur, E.D.; Ostler, W.K.; Wambolt, C.L. comps. 1999. Proceedings: Shrubland Ecotones. 1998 August12-14, Ephraim, UT. Proceedings RMRS-P-000. Ogden, UT: U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station.

Ibáñez, I. and Burgaz, A.R. 1998. Epiphytic species of the *Lecanora subfusca* group (Lecanoraceae) in Spain. Nova Hedwigia 67: 45-58.

Ibáñez, I. and Burgaz, A.R. 1995. Líquenes epífitos de Barco de Ávila (Ávila, España). Botanica Complutensis 20: 9-18.

Martínez, I., **Ibáñez**, I., and Aragón, G. 1995. Fragmenta Chorologica Ocidentalia, Lichenes. Ana. Jar. Bot. Madrid 52: 201-205.

SUBMITTED PUBLICATIONS:

Ibáñez, I., Silander, J.A, Jr., Wilson, A., LaFleur, N., Tanaka, N., and Tsuyama, I. Multi-scale Forecasts of Potential Distribution of Invasive Plant Species. *Submitted to Ecological Applications.*

Primack, R.B., **Ibáñez**, I., Higuchi, H., Lee S.D., Miller-Rushing, A.J., Wilson, A. Silander, J. Spatio-temporal mismatches in species responses to climate change. *Submitted to PNAS.*

Ibáñez, I., Clark, J.S. and Dietze, M. Estimating performance of potential migrant species. *Submitted to Journal of Ecology*.

MANUSCRIPTS IN PROGRESS:

Ibáñez, I., Silander, J.A, Jr., Wilson, A. Plant invasions: Identifying hotspots and foci of further spread.

GRANTS:

- CoPI: "A multi-scale approach to the forecast of potential distributions of invasive plant species." USDA. PI: John Silander, CoPIs: Alan Gelfand, Chantal Reid, Guiling Wang, Dan Civco. Award amount: $545,000.

SEMINARS AND INVITED SPEAKER:

Department of Ecology and Evolutionary Biology, University of Michigan. "Forecasting Potential Distributions of Invasive Species. " March 2008

Biology Department, Boston University. "A multivariate approach to the forecast of invasive species distributions". October 2007.

Department of Ecology, Evolution, and Environmental Biology, Columbia University. "Challenges of modeling invasive species spread." September 2007.

Harvard Forest Seminar Series, Harvard University. "Modeling patterns of future plant invasions in New England." April 2007.

School of Natural Resources and the Environment, University of Michigan. "Evaluating the sources of potential migrant species." March 2007.

Ecology and Evolutionary Biology, Departmental Seminar. University of Connecticut. "Exploiting temporal variability to understand tree recruitment response to climate change." December 2006.

Plant Ecology Seminar. University of Connecticut. "Evaluating the source of potential migrant species." October 2006.

University Program in Ecology Seminar Series, Duke University. "Recruitment dynamics of tree species. Implications under global climate change". April 2006.

Population Biology Group, Duke University. "Role of inter-annual climate variability on tree species recruitment". March 2005.

Department of Botany Seminar Series, Duke University. "Recruitment limitations of mountain mahogany". October 1999.

Department of Range Land Resources Seminar Series, Utah State Univeristy. "Positive and negative interactions between environmental conditions affecting *Cercocarpus ledifolius* seedling survival". January 1998.

FELLOWSHIPS AND AWARDS:

- Biology grant-in-aid, Department of Biology, Duke University, three times, 2002-04.

- Fulbright Fellowship to pursue a M.A. degree in Utah State University, Logan, Rangeland Resources Department, September 1995 to February 1998.

- University of Helsinki Fellowship, Department of Botany, February 1994 to June 1994. Research with Professor T. Ahti in "Ecology, Physiology, and Taxonomy of Lichens."

- ERASMUS Fellowship to attend the University of Wales, Bangor, School of Biological Sciences. October 1993 to February 1994. Project "Lichens and Pollution."

CONFERENCE PRESENTATIONS:

"Identifying focal points of invasive species spread." Oral presentation. US-IALE, 2008, Madison, WI.

"Spatio-temporal mismatches in species responses to climate change." Poster presentation. NSF Workshop on Data-Model Assimilation, October 2007, Norman, OK.

"Challenges of modeling invasive species spread." Oral presentation. Ecological Society of America, 2007. San Jose, CA.

"Modeling patterns of future plant invasions in the New England region." Oral presentation. Colonization versus Invasion. Ascona, Switzerland. February 2007.

"Predicting tree seedling recruitment of resident and potential immigrant species under climate change." Oral presentation. Ecological Society of America, 2005. Montreal, Canada.

"Interannual variability and tree species recruitment. Implications under global change." Poster presentation. Winemiller Symposium, 2004. Columbia, MO.

"Regional and temporal variability on habitat suitability for seedling establishment." Poster presentation.Ecological Society of America, 2004. Portland, OR.

"Role of climatic variability on tree species recruitment." Poster presentation. Ecological Society of America, 2003. Savanna, GA.

"Role of environmental gradients on tree species recruitment. Comparisons within and between sites." Poster presentation. Ecological Society of America, 2002. Tucson, AZ.

"The role of seed fall patterns vs environmental resources in the spatial distribution of tree seedlings." Poster presentation. Ecological Society of America, 2001. Madison, WI.

"Effects of seed rain and fecundity variability on the successional dynamics of neighboring communities." Poster presentation. Ecological Society of America, 2000. Snowbird, UT.

"Long-term photosynthetic response of Southern California Chaparral to elevated CO_2." Poster presentation. Ecological Society of America, 1999. Spokane, WA.

"Successional History of a Curleaf Mountain Mahogany Stand: a Hypothesis." Poster presentation. Shrublands Ecotones, 1998. Ephraim, UT.

"Environmental conditions affecting emergence and seedling establishment of the tree *Cercocarpus ledifolius* during the first growing season." Ecological Society of America, 1998. Baltimore, MD.

"Contribución al conocimiento de la flora liquénica epífita de Barco de Ávila (Ávila, España)." Poster presentation. X Simposio Nacional de Botánica Criptogámica, 1994. Tenerife, Spain.

TEACHING EXPERIENCE AND TRAINING:

Instructor: UMich – NRE 501- *Forest Ecology*, a graduate level course. In this course we cover from the basic concepts in ecology that apply to forests to the challenges that forests face due to global change (climate change, landscape fragmentation, invasions). We study the ecological mechanisms behind individuals, populations, communities and whole ecosystems together with the dynamic processes associated to forests (succession, disturbances). We also review the role and impact of humans on these communities.

Co-instructor: UConn-EEB 482 - *Hierarchical Bayes*, an introduction developing Hierarchical Bayesian models with ecological and bio-geographical data.

Workshop Co-organizer: Ogle, K., Ibáñez, I., and Hille Ris Lambers, J. *A brief introduction to hierarchical Bayesian modeling in ecology* Ecological Society of America, Annual Meeting August 6th, 2006, August 5th, 2007. Accepted for the 2008 Meeting.

Introduction to College Teaching course at Duke University. Principles and strategies for effecting college teaching. Methods of course design, student learning styles, writing the syllabus, selecting teaching methods, and evaluating teaching and learning.

Teaching assistant: Duke- Biology 110 - *General Ecology* Lab. Three semesters. Physical, chemical, and biological processes that determine the distribution and abundance of plants and animals, emphasizing physiological responses, population dynamics, species interaction, biogeography, nutrient cycling, and energy flow through

food webs.

Teaching assistant: Duke-Biology 265 - *Physiological Plant Ecology*. One semester. The physiological approach to interpreting adaptation in plants, with emphasis on terrestrial seed plants.

Teaching assistant: SDSU- Biology 215 - *Biostatistics* Lab. Two semesters. Provided methods and experience in defining and solving quantitative problems in the life and behavioral sciences. Emphasis on the design of experiments, and the application of a variety of techniques to the analysis of data. Lab includes explanation of theory and computer training.

AFFILIATIONS

Ecological Society of America
US-International Association of Landscape Ecology

AD-HOC REVIEWS FOR:

NSF grant proposal reviewer 2008.

Biological Conservation, Biotropica, Canadian Journal of Forestry Research, Conservation Biology, Global Change Biology, Ecological Applications, Journal of Applied Ecology, Journal of Ecology, Journal of Vegetation Science, and Oecologia.

LANGUAGES

English, Spanish.