

PERSONAL INFORMATION

Oscar Rafael Lanuza Lanuza

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ACADEMIC EDUCATION

MSc. in Management and Conservation of Tropical Forests and Biodiversity.	Centro Agronómico Tropical de Investigación y Enseñanza (CATIE, Costa Rica).	2015-2016
BSc. in Environmental Science.	UNAN Managua, Nicaragua	2004-2009

PROFESSIONAL EXPERIENCE AND SCIENTIFIC ACTIVITY

Position

Professor and Researcher at the UNAN-Managua [https://www.unan.edu.ni/]. I teach at the FAREM-Estelí and carry out my research primarily at the “El Limón” Research Station [https://farem.unan.edu.ni/].	2012-2021
Field technician in Ph.D. project	2009-2011

Research projects

(PI principal investigator, R researcher, FT Field technician, U undergraduate assistant)

Role	Project title	Funding	Period
	Development of a program of scientific and technic training along with the creation of a biological research station at the	AECID (Spain)	2008-2012
FT	Facultat Regional Multidisciplinaria de Estelí (UNAN-Managua, Nicaragua).	56.339€	
	PI: J.M. Espelta		
PI	Assessment of the actual and potential Carbon stock of tropical forest fragments in the protected landscape of Miraflores-Moropotente in northwest Nicaragua.	UNAN Mangua 1200\$	2018-2021

Teaching and research supervision

Supervisor of 1 final year thesis, Environmental Science UNAN-Managua.	2012
Supervisor of 1 final year thesis, Environmental engineering UNAN-Managua.	2019
Adviser of 5 final year thesis, Environmental engineering UNAN-Managua.	2017-2019

PUBLICATIONS

- [6] **Lanuza O.R.**, Espelta J.M., Peñuelas J., Peguero G. (2020) Assessing intraspecific trait variability during seedling establishment to improve restoration of tropical dry forests. *Ecosphere* 11:1-18. DOI <https://doi.org/10.1002/ecs2.3052>
- [5] **Lanuza O.R.**, Casanoves F., Delgado D., Van den Meersche K. (2019) Leaf litter stoichiometry affects decomposition rates and nutrient dynamics in tropical forests under restoration in Costa Rica. *Restoration Ecology* 27(3):549-558. DOI <https://doi.org/10.1111/rec.12893>
- [4] **Lanuza O.R.**, Casanoves F., Zahawi R.A., Celentano D., Delgado D., Holl K.D. (2018) Litterfall and nutrient dynamics shift in tropical forest restoration sites after a decade of recovery. *Biotropica*, 50(3): 491–498. DOI <https://doi.org/10.1111/btp.12533>
- [3] Josué Urrutia, **Oscar Lanuza**, Alejandrina Herrera. (2014). Sobrevivencia y producción de biomasa, de *Acacia pennatula* (schlecht.) Benth, por efecto de tres alturas de poda EE. *Revista Científica de FAREM-Estelí*. DOI: <https://doi.org/10.5377/farem.v0i11.1600>
- [2] Peguero G., **Lanuza O.R.**, Savé R., Espelta J.M. (2012) Allelopathic potential of the dry tropical tree *Acacia pennatula* Benth.: inhibition of seedling establishment exceeds facilitation under tree canopies. *Plant Ecology*, 213:1945-1953. DOI <https://doi.org/10.1007/s11258-011-0014-0>
- [1] Leonel Vilchez, Jony González, Eveling Lanuza, **Oscar Lanuza**. (2012). Sostenibilidad de Bancos Comunitarios de Semillas Criollas y Acriollas en el norte de Nicaragua. *Revista Científica de FAREM-Estelí*. DOI: <https://doi.org/10.5377/farem.v0i11.1602>

POSTER / CONFERENCE

Evan Marks, Maria Jara, **Oscar Lanuza**, Alejandrina Herrera. (2015). Nutrient recycling and potential uses of biochars produced using a farm-scale TLUD gasifier in Nicaragua. In REFERTIL International Conference Toledo, Spain.

MANUSCRIPTS UNDER REVIEW OR IN PREPARATION

Lanuza O.R., Casanoves F, Vilchez S, Peguero G. Effect of irrigation and fertilization on the hardening of forest seedlings with potential use for dry tropical forest restoration. *Under review at KURU*.

Lanuza O.R., Pérez-Rugama D.F, Herrera-Landero H.R, Palacios Centeno J.A, Casanoves F, Peguero P, Vilchez S. Structure, diversity, and conservation value of tropical dry forest fragments in Nicaragua. *In preparation*.

Lanuza O.R., Espelta J.M., Peñuelas J., Peguero G. Effects of soil amendments like Biochar on the growth and survival of tropical dry forest species with potential use for ecological restoration. *In preparation*.

SHORT COURSES TAKEN

<i>Title</i>	<i>Place</i>	<i>Period</i>
Analysis of Multidimensional Data Focused on Studies of Ecological Communities: Applications with QEco Software.	CATIE, Costa Rica	2017
International Course Programming in R.	CATIE, Costa Rica	2017
International Diploma in Biostatistics.	CATIE, Costa Rica	2016
Diploma in watersheds, water, sanitation, and gender with an emphasis on institutional management.	FAREM Estelí	2014
Diploma in Introduction to Ecology and Strategies for the Restoration of Tropical Forests in Intervened Landscapes.	YALE School of Forestry & Environmental Studies	2014
Statistical Analysis System.	FAREM Estelí	2014
Herbarium management and administration.	FAREM Estelí	2013
Ecophysiology, Stress and Plant Life.	FAREM Estelí	2013
Scientific investigation methodology.	FAREM Estelí	2012
Diploma in Risk Management and Climate Change.	FAREM Estelí	2012
Advanced course: Geographic Information Systems (GIS).	FAREM Estelí	2011
Experimental design, data analysis and writing scientific papers, applied to population ecology.	FAREM Estelí	2011

ATTENDANCE AT CONGRESSES AND FORUMS

- [3] Speaker at the VII meeting of research teachers, FAREM Estelí, 2019.
- [3] Speaker at the 1st. Renewable Energy and Environment Forum, FAREM Estelí, 2019.
- [2] Speaker at the IX scientific conference at the Nicaraguan Commission for Science and Technology, CONICYT, 2012.
- [1] Speaker at the 1st meeting of research teachers, FAREM Estelí, 2019.

LANGUAGES

A = advanced; I = intermediate; B = basic. *First language

	Writing	Reading	Conversing
*Spanish	A	A	A
English	A2	A1	B2

Basic level of English language awarded by the European Academy of Languages, Nicaragua, and the National Geographic Learning

PERSONAL SKILLS

Communication skills	Good communication skills acquired during the exercise of teaching. Capacity for teamwork,
Organizational / management skills	Good organizational skills and availability to travel.
Digital skills	Good handling of the Microsoft Office package (Word, Excel and PowerPoint) Internet, email.
Driver's license	Category 1, 2, 3