Currículum

Lilia Mercedes Ladino Martínez

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PERSONAL INFORMATION

FIRST AND LAST NAMES:	Lilia Mercedes Ladino Martínez
PASSPORT:	AO663699
DNI:	40.438.207
BIRTH DATE:	28-03-1976
BIRTH PLACE:	Puerto López, Meta, Colombia
PHONE NUMBER:	0057 3167579876
EMAIL:	lladino@unillanos.edu.co

EDUCATION

DEGREES	EDUCATIONAL INSTITUTION	DATE
Ph.D. in Physics and Mathematics	University of Castilla – La Mancha (Spain)	2013
Masters in Teaching of Physics	University National Pedagogical (Colombia)	2004
Specialization in Applied Mathematics	University Sergio Arboleda (Colombia)	2002
Degree in Mathematics and Physics	University of the Llanos (Colombia)	1997

RESEARCH EXPERIENCE

RESEARCH GROUPS

Dynamic Systems Group, University of the Llanos, Colombia (2006 - Present)

Dynamic Systems Group (SIDIS), University of Castilla-La Mancha, Spain (2010 - present).

RESEARCH PROJECTS

Project: Stability and bifurcations in models of population dynamics.
Participants: University of the Llanos, Colombia - University of Castilla-La Mancha, Spain.
Duration: February 2013 to February 2014
Status: In progress.

Project: Models of migratory populations dynamics with recruitment, predation and capture factors.
Participants: University of the Llanos, Colombia - University of Castilla-La Mancha, Spain.
Duration: February 2010 to June 2013
Status: Completed.

Project: Analysis of some dynamic systems regarding population models and nonlinear oscillators.
Funded by: University of the Llanos, Colombia.
Duration: August 2010 to August 2011
Status: Completed.

Project: Design and implementation of a curriculum for science education at the basic level with physical focus.
Funded by: University of the Llanos, Colombia.
Duration: February 2006 to December 2008
Status: Completed.

PUBLICATIONS

Atehortúa A.M., Ladino L.M., Valverde J.C. Population dynamics of a two-stage migratory species with predation and capture, Nonlinear Analysis: Real World Applications, Volume 16, April 2014, Pages 27-39.

Ladino L.M., Sabogal E.I., Valverde J.C. Population dynamics of a predator-prey system with recruitment and capture on both species (*Under review*).

Ladino L.M., Valverde J.C. Population dynamics of a two-stage species with recruitment. Mathematical Methods in the Applied Sciences, 36(6):722–729, 2013.

Atehortúa A.M., Ladino L.M., Valverde J.C. DSamala Toolbox software for analysing and simulating discrete, continuous, stochastic dynamic systems. Ingeniería e Investigación. 32(2): pp. 51-57, 2012.

Ladino L.M., Fonseca Y.I. Propuesta curricular para la enseñanza de las ciencias naturales en el nivel básico con un enfoque físico. Orinoquia. 14: pp. 203—210, 2010.

Ladino L.M., Ospina F., Martínez T. Pensando en la investigación como una actividad del docente. Pedagogía e Investigación. 6: pp. 36—39, 2000.

PARTICIPATION IN EVENTS

AUTHORS: Lilia Mercedes Ladino Martínez, Angélica María Atehortúa Labrador, Edison Ivanú Sabogal Pérez.
TITLE: Analysis and simulation of dynamic systems using DS Software Simulator.
EVENT: Third International Conference on Computing Mexico-Colombia (CICOM 2013) and XIV Academic Conference in Artificial Intelligence.
LOCATION: Cartagena de Indias, Colombia.
YEAR: 2013

AUTHORS: Lilia Mercedes Ladino Martínez, José Carlos Valverde Fajardo.
TITLE: Population dynamics of a predator-prey system with recruitment and capture on both species.
EVENT: 13th International Conference Computational and Mathematical Methods in Science and Engineering.
LOCATION: Cabo de Gata, Almería - España.
YEAR: 2013

AUTHORS: Lilia Mercedes Ladino Martínez, José Carlos Valverde Fajardo.
TITLE: Models of migratory populations dynamics with recruitment, predation and capture factors.
EVENT: First Conference of the Doctoral Program Doctoral FISYMAT, UCLM.
LOCATION: Ciudad Real, España.
YEAR: 2013

AUTHORS: Lilia Mercedes Ladino Martínez, José Carlos Valverde Fajardo.
TITLE: Models of population dynamics.
EVENT: First Conference Doctoral Group 9 of Universities.
LOCATION: Oviedo, España.
YEAR: 2012

AUTHORS: Lilia Mercedes Ladino Martínez, José Carlos Valverde Fajardo.
TITLE: Models of population dynamics.
EVENT: II Doctoral Symposium at the University of Castilla-La Mancha.
LOCATION: Toledo, España.
YEAR: 2012

AUTHORS: Lilia Mercedes Ladino Martínez, José Carlos Valverde Fajardo.
TITLE: Modelos de dinámica de poblaciones.
EVENT: I Doctoral Symposium at the University of Castilla-La Mancha.
LOCATION: Ciudad Real, España.
YEAR: 2011

AUTHORS: Lilia Mercedes Ladino Martínez, Angélica María Atehortua Labrador.
TITLE: DSAMALA TOOLBOX Software for analysis and simulation of discrete, continuous and stochastic dynamical systems.
EVENT: International Conference on Applied Mathematics and Informatics (ICAMI).
LOCATION: San Andrés, Colombia.
YEAR: 2010

AUTHORS: Lilia Mercedes Ladino Martínez, Angélica María Atehortua Labrador.
TITLE: AMALA: A computational learning tool for teaching dynamic systems and applications in physics.
EVENT: X International Conference on Education and Thought and III National Congress for Quality Education.
LOCATION: Cartagena, Colombia.
YEAR: 2009

AUTHORS: Yolanda Inés Fonseca Albarracín, Lilia Mercedes Ladino Martínez.
TITLE: Curricular proposal for the teaching of natural sciences at the basic level with a physical approach.
EVENT: IV National Congress of Physics Education.
LOCATION: Medellín, Colombia.
YEAR: 2008

AUTHORS: Lilia Mercedes Ladino Martínez, Angélica María Atehortua Labrador.
TITLE: AMALA: A computational learning tool for teaching dynamic systems and applications in physics.
EVENT: IV National Congress of Physics Education
LOCATION: Medellín, Colombia.
YEAR: 2008

TEACHING EXPERIENCE

2006 - Present
UNIVERSITY OF THE LLANOS, Faculty of Basic Sciences and Engineering, Colombia.
Title: Teaching assistant.
Subjects: Dynamic Systems, Physical Principles of Life, Physics I and Physics II.
Programs: Biology, Systems Engineering, Electronics Engineering, Bachelor of Mathematics and Physics.

2001 - 2005
UNIVERSITY OF THE LLANOS, Faculty of Basic Sciences and Engineering, Colombia.
Title: Teaching full time.
Subjects: Fundamentals of Physics, Applied Physics Agronomic Engineering, Physics I and Physics II.
Programs: Systems Engineering, Electronics Engineering, Agricultural Engineering.

1998 - 2000
UNIVERSITY OF THE LLANOS, Faculty of Humanities, Colombia.
Position: Professor.
Subjects: Fundamentals of Mathematics, Abstract Algebra, Math IV and Mathematics Teaching Practice.

2002 – 2003
ANTONIO NARIÑO UNIVERSITY, Faculty of Engineering, Colombia.
Position: Professor.
Subjects: Physics II, Physics III, IV Physics and Electromagnetic Fields.

2001
UNIVERSITY OF META, Faculty of Engineering, Colombia.
Position: Professor.
Subjects: Math II and Physics II.

ADMINISTRATIVE EXPERIENCE

Title: Faculty Representative to the Board of Faculty of Basic Sciences and Engineering.
Company: University of the Llanos, Colombia.
Duration: April 2008 to April 2010

Title: Academic Secretary of the Faculty of Basic Sciences and Engineering.
Company: University of the Llanos, Colombia.
Duration: January 2004 to August 2005