



# MARLON ERNESTO MOSCO SO MARTÍNEZ

Engineer and Mathematician

 Riobamba, Ecuador

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## + PERSONAL DETAILS

### Date of birth

11/29/1984

### Nationality

Ecuadorian

### Visa status

Approved

### Marital status

Single

## + ABOUT ME

Marlon Ernesto Moscoso Martínez is a highly skilled Predoctoral Researcher and PhD candidate in Mathematics. He has an impressive academic background with several degrees, including a Master's degree in Mathematical Research, a Master's degree in Control Systems and Industrial Automation, and a Bachelor's degree in Electronics and Control Engineering.

Marlon has more than fourteen years of professional experience as an engineer and over five years of experience in university teaching. He has published various scientific papers and has participated in national and international

## + EDUCATION

- Universitat Politècnica de València  
Valencia  
**PH.D. DEGREE**  
Ph.D. in Mathematics (in progress) 2024
- Universitat Politècnica de València & Universitat de València  
Valencia  
**MASTER'S DEGREE**  
Master's Degree in Mathematical Research 2020
- Escuela Superior Politécnica de Chimborazo  
Riobamba  
**MASTER'S DEGREE**  
Master's Degree in Control Systems and Industrial Automation 2020
- Escuela Politécnica Nacional  
Quito  
**UNDERGRADUATE**  
Engineer in Electronics and Control 2014

## + WORK EXPERIENCE

- Universidad Internacional de la Rioja  
La Rioja, Spain  
**GRADUATE PROFESSOR**  
SEP 2022 - PRESENT
  - Master's thesis Director of the graduate program in Mathematical Engineering and Computing.
- Escuela Superior Politécnica de Chimborazo  
Riobamba, Ecuador  
**UNDERGRADUATE PROFESSOR**  
MAY 2021 - PRESENT
  - Professor of Mathematical Analysis I, Mathematical Analysis II, and Differential Equations in the Physics and Chemical Engineering programs.
  - Member of the Chemical Engineering Program Committee.
  - Member of the Quality Assessment and Assurance Committee of the Chemical Engineering Program.

conferences. In the field of Electronics, he has published works on communication protocols, techniques for controlling lighting loads, and design of lighting systems for smart homes. In the field of Science, he is currently researching in the area of Numerical Analysis and Dynamic Systems, mainly related to iterative methods for solving nonlinear equations or systems of equations and the dynamic study of associated rational functions.

Marlon holds several honorary certifications for his excellent teaching performance. He is currently a member of the DAMRES research group and an undergraduate and graduate Professor at prestigious universities.

## + LINKS

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### LinkedIn

<https://www.linkedin.com/in/marlon-moscoso-61604b60/>

### ORCID

<https://orcid.org/0000-0001-5182-3099>

### ResearchGate

<https://www.researchgate.net/profile/Marlon-Moscoso-Martinez>

### DAMRES Research Group

[https://damres.webs.upv.es/?page\\_id=7](https://damres.webs.upv.es/?page_id=7)

## + LANGUAGES

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Spanish

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English

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French

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## + SKILLS

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Analytical Thinking Skills

- Universitat Politècnica de València JUL 2020 - PRESENT  
Valencia, Spain  
**PREDOCTORAL RESEARCHER**
  - Member of the DAMRES research group at the Institute of Multidisciplinary Mathematics.
  - Researcher of new numerical methods to solve nonlinear equations and systems of equations.
- Universidad Técnica de Ambato MAY 2018 - AUG 2019  
Ambato, Ecuador  
**UNDERGRADUATE PROFESSOR**
  - Head of the Mathematics Department of the Academic Admission and Leveling System.
  - Professor of Basic Mathematics and Projects.
- Escuela Superior Politécnica de Chimborazo APR 2015 - MAR 2017  
Riobamba, Ecuador  
**UNDERGRADUATE PROFESSOR**
  - Academic Coordinator of the Admission and Leveling Unit.
  - Academic Advisor.
  - Research Collaborator.
  - Professor of Advanced Algebra, Basic Mathematics and Projects.
- EM Smart Homes SEP 2008 - PRESENT  
Quito, Ecuador  
**OWNER MANAGER**
  - Design and implementation of electrical and electronic plans.
  - Development and management of software applications.
  - Development and programming of home automation devices.
  - Project consulting.
  - Home and building automation.
  - Civil construction and remodeling.
  - Construction supervision.

Complex Problem Solving

Time Management Skills

Proficiency In Algebra And Mathematics So. ware

Proficiency In Software For Industrial Electronics And Instrumentaon

Proficiency In Programming And Database Software

Mastery Of Software For Eding Scienfi c Arc les And Books

Proficiency In Virtual Learning Environments

Mastery Of Video Conferencing Platforms

Mastery Of Microsoft Office Productvity Tools

## + REFERENCES

- **Alicia Cordero Barbero**  
Universitat Politècnica de València  
**Email:** acordero@mat.upv.es
- **Juan Ramón Torregrosa Sánchez**  
Universitat Politècnica de València  
**Email:** jrtorre@mat.upv.es
- **Luis Ismael Minchala Ávila**  
Universidad de Cuenca  
**Email:** ismael.minchala@ucuenca.edu.ec

## + PUBLICATIONS

- Numerical Analysis and Modeling MAR 2023  
**PERFORMANCE OF A NEW SIXTH-ORDER CLASS OF ITERATIVE SCHEMES FOR SOLVING NON-LINEAR SYSTEMS OF EQUATIONS**
- Modelling for Engineering & Human Behaviour 2022 NOV 2022  
**DYNAMICAL ANALYSIS OF A NEW SIXTH-ORDER PARAMETRIC FAMILY FOR SOLVING NONLINEAR SYSTEMS OF EQUATIONS**
- Modelling for Engineering & Human Behaviour 2021 NOV 2021  
**INTRODUCING A NEW PARAMETRIC FAMILY FOR SOLVING NONLINEAR SYSTEMS OF EQUATIONS**
- 2021 Selected Papers from Algorithms Editorial Board Members MAR 2021  
**CHAOS AND STABILITY IN A NEW ITERATIVE FAMILY FOR SOLVING NONLINEAR EQUATIONS**
- Advances in Intelligent Systems and Compung, S ystems and Informaon S ciences OCT 2020  
**DESIGNING A LIGHTING SYSTEM FOR SMART HOMES**
- 2018 IEEE XXV Internaonal C onference on E lectronics, Electrical Engineering and Compung (IN TERCON) NOV 2018  
**A SIMPLE RELIABLE WIRELESS BUS DESIGN FOR HOME AUTOMATION SYSTEMS**

## + AWARDS

- Escuela Superior Politécnica de Chimborazo, Riobamba SEP 2022  
**HONORARY CERTIFICATION FOR EXCELLENT TEACHING PERFORMANCE IN THE ACADEMIC PERIOD APRIL - S EPTEMBER 2022**
- Escuela Superior Politécnica de Chim borazo, Riobamba APR 2022  
**HONORARY CERTIFICATION FOR EXCELLENT TEACHING PERFORMANCE IN THE ACADEMIC PERIOD OCTOBER 2021 - MARCH 2022**
- Escuela Superior Politécnica de Chim borazo, Riobamba OCT 2021  
**HONORARY CERTIFICATION FOR EXCELLENT TEACHING PERFORMANCE IN THE ACADEMIC PERIOD APRIL - S EPTEMBER 2021**
- Escuela Superior Politécnica de Chim borazo, Riobamba MAY 2017  
**HONORARY CERTIFICATION FOR EXCELLENT TEACHING PERFORMANCE IN THE ACADEMIC PERIOD OCTOBER 2016 - MARCH 2017**
- Autonomous Decentralized Municipal Government of Riobamba APR 2016  
Canton and the Cultural, Sports, and Recreaon M anagement Directorate, Riobamba  
**AUTOGRAPHED AGREEMENT IN RECOGNITION OF PROFESSIONAL WORK**

- Escuela Politécnica Nacional, Quito APR 2014  
**GRADUATED WITH CUM LAUDE HONORS IN ELECTRONICS AND CONTROL ENGINEERING**
- Chimborazo Association Inc. of New York, New York APR 2002  
**DIPLOMA AND MEDAL OF HONOR FOR THE BEST STUDENT DURING THE ACADEMIC YEAR 2001-2002**
- Unidad Educativa Salesiana Santo Tomás Apóstol, Riobamba MAR 2002  
**GRADUATED FROM HIGH SCHOOL WITH HONORS AS THE BEST STUDENT, CARRYING THE FLAG OF THE NATIONAL PAVILION OF ECUADOR.**
- Unidad Educativa Salesiana Santo Tomás Apóstol, Riobamba MAR 2001  
**HONOR DIPLOMA FOR THE BEST STUDENT DURING THE ACADEMIC YEAR 1999-2000**
- Unidad Educativa Salesiana Santo Tomás Apóstol, Riobamba MAR 1998  
**HONOR DIPLOMA FOR THE BEST STUDENT DURING THE ACADEMIC YEAR 1996-1997**

## + COURSES

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- NOV 2022  
**INCLUSIVE EDUCATION, MINISTRY OF LABOR**
- OCT 2022  
**METHODOLOGY FOR RESEARCH, DEVELOPMENT AND PUBLICATION OF SCIENTIFIC ARTICLES AND BOOKS, ESCUELA SUPERIOR POLITÉCNICA DE CHIMBORAZO**
- AUG 2022  
**PEDAGOGY AND ANDRAGOGY FOCUSED ON HIGHER EDUCATION, COOPERATION AND SUPPORT FOUNDATION FOR EDUCATION**
- AUG 2022  
**TEACHING ACTIVITIES IN THE PROJECT-BASED LEARNING METHODOLOGY (PBL), MINISTRY OF LABOR**
- JUL 2022  
**OPTIMIZATION STRATEGIES IN INDUSTRIAL PROCESSES, ESCUELA POLITÉCNICA NACIONAL**
- SEP 2021  
**METHODOLOGICAL STRATEGIES FOR STUDENTS WITH SPECIAL EDUCATIONAL NEEDS, ILAN AND ESCUELA SUPERIOR POLITÉCNICA DE CHIMBORAZO**