MAURICIO URIONA MALDONADO

[1] "My research is focused on studying the transition toward sustainable and low-carbon economies by studying the case of Developing Countries. I use system dynamics models to inform public policy and sustainability transitions theoretical frameworks to ground my findings. I lead the Sustainable Energy Innovation Group (Sinergia) at UFSC. My research has been published in several journals and in specialized conferences across the world. I held visiting positions at Universidad Autonoma de Madrid (Spain), University of Tampere (Finland) and University of Bremen (Germany) and received training at the Massachusetts Institute of Technology (USA)."

🎓 EDUCATION

2012 | 2008

PhD. in Knowledge Management and Engineering

Federal University of Santa Catarina

📍 Florianopolis, Brazil

- PhD Dissertation: Sectoral Innovation Dynamics, Innovation Systems, System Dynamics, IT Sector
- CAPES Fellow, PEC-PG. Supervised by Prof. G. Varvakis
- Co-supervised by Prof. V. Kern (UFSC) and Prof. R. Pietrobon (Duke University)

2008 | 2006

M.Sc. in Knowledge Management and Engineering

Federal University of Santa Catarina

📍 Florianopolis, Brazil

- Thesis: Business Process Management, System Dynamics, IT Sector
- CNPq Fellow, PEC-PG. Supervised by Prof. G. Varvakis

2004 | 2000

B.S. in Industrial Engineering

Military School of Engineering (EMI)

📍 La Paz, Bolivia

- Thesis: Strategic Planning, Service Industry

🖥 ACADEMIC EXPERIENCE

Current | 2013

Associate Professor

Federal University of Santa Catarina

📍 Florianopolis, Brazil

- Department of Industrial and Systems Engineering
- Courses taught in Undergraduate Level: Decision Analysis, IT Management/Data Science, Microeconomics, Ethics in Business
- Courses taught in Graduate level: System Dynamics Simulation, Innovation and Industrial Economics, Renewable Energy Economics

2025 | 2022

Associate Professor Extraordinary

Stellenbosch University

📍 Stellenbosch, South Africa

- Department of Industrial Engineering
- Invited Position

2013 | 2009

Research Associate

Duke University

📍 Durham, NC, US

- Research on Research Group
- Under the lead of Dr. Ricardo Pietrobon
- Conducted research on system dynamics and Science and Technology Policy

CONTACT

Born and raised in La Paz, Bolivia 🇧🇴

Lives in Florianopolis, Brazil 🇧🇷

Age: *40 years old*

✉ m.uriona@ufsc.br

🌐 - ⌨ - in - 🌐 - R⌐ -

View this CV online with links at
https://cv muriona.netlify.app/

LANGUAGE SKILLS

English

Portuguese

Spanish (Native)

French

SPECIFIC SKILLS

System Dynamics

Bibliometrics

Data Visualization

Data Analysis

Machine Learning

PROGRAMMING SKILLS

🖥 Stella

🖥 Vensim

Ⓡ R

🐍 Python

2012 | 2009

Teaching Assistant
Federal University of Santa Catarina ⚲ Florianopolis, Brazil

• Department of Information Science
• TA in the course "Service Organizations"

🌐 VISITING POSITIONS

2017 | 2017

Visiting Professor
University of Bremen ⚲ Bremen, Germany

• Visiting Professor at the Bremen Institute for Production and Logistics
• CAPES-DFG Fellow

2017 | 2017

System Dynamics Training
MIT ⚲ Boston, USA

• MIT Sloan School of Management
• Advanced Course in System Dynamics

2015 | 2015

Visiting Professor
University of Tampere ⚲ Tampere, Finland

• Visiting Professor in Innovation Policy

2011 | 2011

Visiting Researcher
Autonomous University of Madrid ⚲ Madrid, Spain

• Visiting Scholar at the Economics and Business Faculty
• EU 7th Framework Programme - Marie Curie Actions

2011 | 2011

PhD School on Innovation Systems
University of Tampere ⚲ Tampere, Finland

• Globelics PhD School

💼 INDUSTRY EXPERIENCE

2013 | 2012

Consultant
Industry Federation of Santa Catarina ⚲ Florianopolis, Brazil

• Consultant in Innovation Management
• CNPq/NAGI Fellow
• Served small, medium and large enterprises in Santa Catarina State

2010 | 2009

Researcher
Celesc Distribuicao ⚲ Florianopolis, Brazil

• Strategic Outsourcing in the Energy Sector
• Conducted interviews and developed framework for outsourcing decisions for Celesc (the Power Distribution Company in SC State)

2008 | 2005

Business Analyst
Dinamica Software ⚲ Florianopolis, Brazil

• Designed and assessed in new product development (ERP system)
• Helped in financial management

Learning online from:

Datacamp
Coursera
EDx
Linkedin Learning
Tableau for Teaching

Noteworthy International Collaborations

w/ Prof. Sara Grobbelaar 🇿🇦
w/ Prof. Peter Wells 🇬🇧
w/ Prof. Milton Herrera 🇨🇴
w/ Prof. Minelle Silva 🇫🇷

SELECTED PUBLICATIONS

**2022
|
2022**

A multi-country simulation-based study for end-of-life solar PV panel destination estimations

Sustainable Production and Consumption

• Authored with Marcuzzo, R; de Araujo WC; Vaz CR

**2022
|
2022**

The evolution, consolidation and future challenges of wind energy in Uruguay

Energy Policy

• Authored with Correa, KC; Vaz CR

**2021
|
2021**

A Systems Modeling approach to estimate biogas potential from biomass sources in Brazil

Renewable And Sustainable Energy Reviews

• Authored with Borges CP; Sobczak JC;Silberg TR (USA); Vaz CR

**2021
|
2021**

Modeling Smallholder Agricultural Systems to Manage Striga in the Semi-Arid Tropics

Agricultural Systems

• Authored with Silberg TR; Renner K; Schmitt Olabisi L; Richardson RB; Chimonyo VGP; Basso BB; Mwale C from the USA

**2020
|
2020**

The Influence of E-Carsharing Schemes on Electric Vehicle Adoption and Carbon Emissions: An Emerging Economy Study

Transportation Research Part D: Transport and Environment

• Authored with Luna TF; Silva ME (France); Vaz CR

**2019
|
2019**

The Impact of CO2 Mitigation Policies on Light Vehicle Fleet in Brazil

Energy Policy

• Authored with Benvenutti LM; Campos L

**2019
|
2019**

Product-Service Systems in Solar PV Deployment Programs: What can we learn from the California Solar Initiative?

Resources, Conservation and Recycling

• Authored with Schmidt-Costa Jr; Possamai O

**2018
|
2018**

Diffusion of Photovoltaic Technology in Germany: A Sustainable Success or an illusion driven by guaranteed Feed-In Tariffs?

Energy

• Authored with Baur L (Germany)

**2015
|
2015**

Big Data and Business Analytics in the Supply Chain: A Review of the Literature

IEEE Latin America Transactions

• Authored with Gimenez Isasi NK; Morosini Frazzon E