

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

[Download a PDF of this CV](#)

CONTACT

Born and raised in La Paz,
Bolivia 🇧🇴

Lives in Florianopolis, Brazil 🇧🇷

Age: 41 years old

✉ m.uriona@ufsc.br

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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
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2009

● **Teaching Assistant**
Federal University of Santa Catarina
• Department of Information Science
• TA in the course "Service Organizations"

📍 Florianopolis, Brazil

🌐 VISITING POSITIONS

2017
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2017

● **Visiting Professor**
University of Bremen
• Visiting Professor at the Bremen Institute for Production and Logistics
• CAPES-DFG Fellow

📍 Bremen, Germany

2017
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2017

● **System Dynamics Training**
MIT
• MIT Sloan School of Management
• Advanced Course in System Dynamics

📍 Boston, USA

2015
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2015

● **Visiting Professor**
University of Tampere
• Visiting Professor in Innovation Policy

📍 Tampere, Finland

2011
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2011

● **Visiting Researcher**
Autonomous University of Madrid
• Visiting Scholar at the Economics and Business Faculty
• EU 7th Framework Programme - Marie Curie Actions

📍 Madrid, Spain

2011
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2011

● **PhD School on Innovation Systems**
University of Tampere
• Globelics PhD School

📍 Tampere, Finland

📁 INDUSTRY EXPERIENCE

2013
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2012

● **Consultant**
Industry Federation of Santa Catarina
• Consultant in Innovation Management
• CNPq/NAGI Fellow
• Served small, medium and large enterprises in Santa Catarina State

📍 Florianopolis, Brazil

2010
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2009

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

📍 Florianopolis, Brazil

2008
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2005

● **Business Analyst**
Dinamica Software
• Designed and assessed in new product development (ERP system)
• Helped in financial management

📍 Florianopolis, Brazil

Industry Experience

Consultant in Innovation Management (FIESC) - 2012-2013

Business Analyst (Dinamica Software) - 2005-2008

Noteworthy International Collaborations

w/ Prof. Sara Grobbelaar 🇿🇦

w/ Prof. Peter Wells 🇬🇧

w/ Prof. Milton Herrera 🇨🇴

w/ Prof. Minelle Silva 🇫🇷

w/ Prof. Guillermo Davila 🇲🇽



SELECTED PUBLICATIONS

- 2023
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2023
- **Scaling actors' perspectives about innovation system functions: Diffusion of biogas in Brazil.**
Technological Forecasting and Social Change
• Authored with Borges CP; Silberg TR (USA); Vaz CR
- 2022
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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
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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)

PUB RECORD

63 Journal Publications
5 Books
31 Book Chapters
162 Conference Papers

See full details at the Brazilian Lattes online cv Platform [here](#)