MAURICIO URIONA MALDONADO

I study clean technologies driving the transition toward sustainable and low-carbon economies in Developing Countries from a socio-technical perspective. I am an expert in system dynamics modelling which I use to develop simulated scenarios of technology diffusion and sustainable transitions. 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
- 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)

Q 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

O Durham, NC, US

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

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CONTACT

Born and raised in La Paz,

Bolivia 🚅

Lives in Florianopolis, Brazil 💆

Age: 41 years old

LANGUAGE SKILLS

English

Portuguese

Spanish (Native)

French

SPECIFIC SKILLS

System Dynamics

Bibliometrics

Data Visualization

Data Analysis

Machine Learning

MODELLING SKILLS

 ☐ Stella

Vensim

Anylogic

R R

Python

VISITING POSITIONS Visiting Professor 2017 🗣 Bremen, Germany University of Bremen 2017 · Visiting Professor at the Bremen Institute for Production and Logistics CAPES-DFG Fellow System Dynamics Training 2017 Boston, USA 2017 MIT Sloan School of Management Advanced Course in System Dynamics Visiting Researcher 2011 Madrid, Spain Autonomous University of Madrid 2011 · Visiting Scholar at the Economics and Business Faculty • EU 7th Framework Programme - Marie Curie Actions **III** FUNDING AND GRANTS Scenarios for green hydrogen production in Brazil 2026 Brazil CNPg - Principal Investigator 2024 • Project funded by CNPq (Brazilian science foundation) which aims at developing quantitative scenarios for the ramp up of green hydrogen production in Brazil for the coming decades, including economic, technological and social variables. · Project Partners: UFSC. Public policies and corporate responses to promote sustainable economic 2024 development at the green hydrogen HUB with an emphasis in Ceara State 2023 Brazil CNPq - Co-Investigator Project funded by CNPq (Brazilian science foundation) which aims at developing a qualitative understanding of the feasibility of green hydrogen production in the State of Ceara (the leading State in green hydrogen promotion policies) for the next decade. • Project Partners: UFSC and Federal University of Ceara. Decision Support Systems for long-term hydrogen scenarios 2023 **♀** Germany DAAD and GIZ - Principal Investigator 2022 Project funded by DAAD (German Academic Exchange Service) and GIZ (German Cooperation Agency) under the German-Brazilian Research Cooperation in the Energy sector - NoPa 2.0/ cooperation in the areas of green hydrogen/PtX, direct electrification and energy storage 2023. • Project Partners: UFSC, Fraunhofer Institute for Systems Innovation and Federal University of Ceara.

New index for green technologies in Latin America

Universidad Militar Nueva Granada - Co-Investigator

 Project funded by Universidad Militar Nueva Granada which aims at developing new performance indexes for green technologies in Latin America, specially with patents.

• Project Partners: UFSC and Universidad Militar Nueva Granada (Colombia).

2023

2021

Industry Experience

Consultant in Innovation Management (FIESC) - 2012-2013

Business Analyst (Dinamica Software) - 2005-2008

Noteworthy International Collaborations

w/ Prof. Sara Grobbelaar
(Stellenbosch Univ)

w/ Prof. Rainer Walz
(Fraunhofer ISI)

w/ Prof. Milton Herrera (Univ Militar Nueva Granada)

w/ Prof. Minelle Silva (La Rochele Business School)

w/ Prof. Guillermo Davila
(Univ de Lima)

w/ Prof. Peter Wells (Cardiff Univ)

Univ)

w/ Prof. Peter Wells (Cardiff Univ)

Colombia

		SELECTED PUBLICATIONS
2023	•	Scaling actors' perspectives about innovation system functions: Diffusion of biogas in Brazil.
2023		Technological Forecasting and Social Change
		• Authored with Borges CP; Silberg TR (USA); Vaz CR
2022	•	A multi-country simulation-based study for end-of-life solar PV panel destination estimations
2022		Sustainable Production and Consumption
		• Authored with Marcuzzo, R; de Araujo WC; Vaz CR
2022	•	The evolution, consolidation and future challenges of wind energy in Uruguay
 2022		Energy Policy
2022		Authored with Correa, KC; Vaz CR
2021		A Systems Modeling approach to estimate biogas potential from biomass sources in Brazil
2021		Renewable And Sustainable Energy Reviews
		Authored with Borges CP; Sobczak JC;Silberg TR (USA); Vaz CR
2021	•	Modeling Smallholder Agricultural Systems to Manage Striga in the Semi-Arid Tropics
 2021		Agricultural Systems
		 Authored with Silberg TR; Renner K; Schmitt Olabisi L; Richardson RB; Chimonyo VGP; Basso BB; Mwale C from the USA
2020	•	The Influence of E-Carsharing Schemes on Electric Vehicle Adoption and Carbon Emissions: An Emerging Economy Study
2020		Transportation Research Part D: Transport and Environment
		Authored with Luna TF; Silva ME (France); Vaz CR
2019	•	The Impact of CO2 Mitigation Policies on Light Vehicle Fleet in Brazil
 2019		Energy Policy
		Authored with Benvenutti LM; Campos L
2019	•	Product-Service Systems in Solar PV Deployment Programs: What can we learn from the California Solar Initiative?
2019		Resources, Conservation and Recycling
		• Authored with Schmidt-Costa Jr; Possamai O
2018	•	Diffusion of Photovoltaic Technology in Germany: A Sustainable Success or an
 2018		illusion driven by guaranteed Feed-In Tariffs?
		Energy
		Authored with Baur L (Germany)

PUB RECORD

63 Journal Publications5 Books31 Book Chapters162 Conference Papers

See full details at the Brazilian Lattes online cv Platform here