

MAURICIO URIONA MALDONADO

I specialize in the examination of clean technologies that propel the shift toward sustainable and low-carbon economies in Developing Countries, utilizing a socio-technical lens. Proficient in system dynamics modeling, I craft simulated scenarios to forecast the diffusion of technology and sustainable transitions. As the head of the Sustainable Energy Innovation Group (Sinergia) at UFSC, I spearhead initiatives that push the boundaries of clean energy innovation. My research findings have found a home in esteemed journals and have been shared at specialized conferences worldwide. Additionally, I have undertaken visiting roles at prominent institutions such as Universidad Autonoma de Madrid (Spain), University of Tampere (Finland), and University of Bremen (Germany). Furthermore, I have enriched my expertise through training at the Massachusetts Institute of Technology (USA).

EDUCATION

- 2012
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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
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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
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2000
- **B.S. in Industrial Engineering**
Military School of Engineering (EMI) 📍 La Paz, Bolivia
 - Thesis: Strategic Planning, Service Industry

ACADEMIC EXPERIENCE

- Current
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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
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2022
- **Associate Professor Extraordinary**
Stellenbosch University 📍 Stellenbosch, South Africa
 - Department of Industrial Engineering
 - Invited Position
- 2013
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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

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

CONTACT

Born and raised in La Paz,
Bolivia 🇧🇴

Lives in Florianopolis, Brazil 🇧🇷

Age: 43 years old

✉ m.uriona@ufsc.br

🌐 - 📧 - [in](#) - [ID](#) - [R](#) -

LANGUAGE SKILLS

English

Portuguese

Spanish (Native)

French

SPECIFIC SKILLS

System Dynamics

Bibliometrics

Data Visualization

Data Analysis

Machine Learning

MODELLING SKILLS

📊 [Stella](#)

📊 [Vensim](#)





📊 [Anylogic](#)

📊 [R](#)

📊 [Python](#)











VISITING POSITIONS

- 2024**
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2024
 - **Visiting Professor**
Universidad Nacional del Sur  Bahia Blanca, Argentina
 - Visiting Professor at the Department of Economics
 - AUGM Fellow
- 2017**
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2017
 - **Visiting Professor**
University of Bremen  Bremen, Germany
 - Visiting Professor at the Bremen Institute for Production and Logistics
 - CAPES-DFG Fellow
- 2017**
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2017
 - **System Dynamics Training**
MIT  Boston, USA
 - MIT Sloan School of Management
 - Advanced Course in System Dynamics
- 2011**
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2011
 - **Visiting Researcher**
Autonomous University of Madrid  Madrid, Spain
 - Visiting Scholar at the Economics and Business Faculty
 - EU 7th Framework Programme - Marie Curie Actions



FUNDING AND GRANTS

- 2028**
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2025
 - **Latin American research consortium on Green Hydrogen Energy Transitions (H2VLatam)**
CAPES & AUGM - PI  Brazil & Latin America
- 2027**
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2024
 - **Mapping Hydrogen Diffusion and its Interconnection with Renewable Energy Sources in Brazil.**
CNPq - Co-PI  Brazil
- 2026**
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2025
 - **An integrated climate-economy stakeholder-based model for assessing SRM future implications in Brazil, India and South Africa**
Degrees Initiative - PI  UK
- 2026**
|
2024
 - **Scenarios for green hydrogen production in Brazil**
CNPq - Principal Investigator  Brazil
- 2025**
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2025
 - **Green hydrogen production for transportation in Colombia.**
CAPES - PI  Brazil & Colombia
- 2024**
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2023
 - **Public policies and corporate responses to promote sustainable economic development at the green hydrogen HUB with an emphasis in Ceara State**
CNPq - Co-Investigator  Brazil
- 2023**
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2022
 - **Decision Support Systems for long-term hydrogen scenarios**
DAAD and GIZ - PI  Germany
- 2023**
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2021
 - **New index for green technologies in Latin America**
Universidad Militar Nueva Granada - Co-PI  Colombia



SELECTED PUBLICATIONS

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. Rhythm Singh (IIT Roorkee) 

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) 

Relevant Publications in the last five years - Citation at Scopus			
Year	Title	Journal	DOI
2025	Growth of residential solar energy in Brazil: A system dynamics approach	Renewable and Sustainable Energy Reviews	10.1016/j.rser.2025.115582
2024	Exploring the influence of Brazilian project cancellation mechanisms on new wind power generation	Renewable Energy	10.1016/j.renene.2023.119755
2023	Scaling actors' perspectives about innovation system functions: Diffusion of biogas in Brazil	Technological Forecasting and Social Change	10.1016/j.techfore.2023.122359
2023	Exploring a System Dynamics Approach to Develop Shared-Mobility Services Models: A Literature Review	IFIP Advances in Information and Communication Technology	10.1007/978-3-031-25182-5_45
2023	The Sustainable Transition of the Public Bus Fleet in the City of São Paulo Until 2038	Palgrave Studies in Democracy, Innovation and Entrepreneurship for Growth	10.1007/978-3-031-34793-1_5

ASIDE

PUB RECORD

72 Journal Publications
5 Books
37 Book Chapters
180 Conference Papers

SUPERVISIONS

9 Completed PhD Supervisions
9 Completed MSc Supervisions

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